

## Operating Instructions

### SIP Phone

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KX-HDV430

Model No.

KX-HDV330

KX-HDV340

KX-HDV430

Thank you for purchasing this Panasonic product.

Please read this manual carefully before using this product and save this manual for future use.

#### Note

- In this manual, the suffix of each model number is omitted unless necessary.
- The illustrations such as some keys may differ from the appearance of the actual product.
- Certain products and features described in this document may not be available in your country or area. Contact your phone system dealer/service provider.
- The contents and design of the software are subject to change without notice.

# Introduction

This manual describes information about the installation and operation of KX-HDV330 / KX-HDV340 / KX-HDV430.

## Related Documentation

- **Quick Start Guide**  
Describes basic information about the installation and safety precautions to prevent personal injury and/or damage to property.
- **Administrator Guide**  
Describes detailed information about the configuration and management of this unit.

Manuals and supporting information are provided on the Panasonic Web site at:  
<https://panasonic.net/cns/pcc/support/sipphone/>

## For Future Reference

Record the information in the space below for future reference.

## Note

- The serial number and MAC address of this product may be found on the label affixed to the bottom of the unit. You should note the serial number and MAC address of this unit in the space provided and retain this manual as a permanent record of your purchase to aid in identification in the event of theft.



MODEL NO.	KX-HDV330 / KX-HDV340 / KX-HDV430
SERIAL NO.	
MAC ADDRESS	
DATE OF PURCHASE	
NAME OF DEALER	
DEALER'S ADDRESS	
DEALER'S TEL. NO.	

## Other Information

### Trademarks

- The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Panasonic Corporation is under license.
- All other trademarks identified herein are the property of their respective owners.

# Table of Contents

<b>1</b>	<b>Important Information .....</b>	<b>7</b>
1.1	Data Security .....	8
1.2	Disposal of Old Equipment and Batteries .....	8
1.3	Regional Information .....	9
1.3.1	For Users in European Countries .....	9
1.3.2	For Users in the United Kingdom .....	9
1.3.3	For Users in Australia .....	9
1.3.4	For Users in Australia and the United Kingdom .....	9
1.3.5	For Users in New Zealand .....	10
1.3.6	For Users in the United States .....	10
1.3.7	For Users in Canada .....	11
1.4	For Best Performance .....	13
<b>2</b>	<b>Before Operating the Telephones .....</b>	<b>15</b>
2.1	Accessory Information .....	16
2.2	Installation and Setup .....	18
2.2.1	Attaching the Stand .....	18
2.2.2	Adjusting the Stand Position .....	19
2.2.3	Removing the Stand .....	19
2.2.4	Adjusting the Camera Angle (KX-HDV430 only) .....	19
2.2.5	Attaching the Optional KX-HDV20 to the Unit .....	21
2.2.6	Connections (including optional KX-HDV20) .....	22
2.2.7	Wall Mounting .....	24
2.2.8	Hooking the Handset .....	27
2.3	Location of Controls .....	28
2.4	The Display and Icons .....	37
2.4.1	Display .....	37
2.4.2	Icons displayed in the status bar .....	39
2.4.3	Operation icons displayed in the operation area .....	40
2.4.4	Character input icons .....	43
2.4.5	Switching the Display by Pressing  /HOME (For KX-HDV330/KX-HDV430) .....	44
2.4.6	Switching the Display by Pressing  /HOME (For KX-HDV340) .....	47
2.4.7	KX-HDV20 Self-labeling LCD .....	53
2.5	Main Menu .....	55
2.6	Phonebook .....	56
2.7	Basic Operations .....	57
2.7.1	Going off- and on-hook .....	57
2.7.2	Adjusting the Volume .....	58
2.7.3	Entering Characters .....	58
2.7.4	Using the Incoming/Outgoing Call Log .....	59
2.7.5	Bluetooth Headset .....	60
<b>3</b>	<b>Feature Operations .....</b>	<b>61</b>
3.1	Making Calls .....	62
3.1.1	Basic Calling .....	62
3.1.2	Easy Dialing .....	63
3.1.3	Making a Multicast Voice Paging call .....	65
3.2	Receiving Calls .....	66
3.2.1	Answering Calls .....	66
3.3	Using Hands-free Mode .....	68
3.4	During a Conversation .....	69

3.4.1	Transferring a Call (Call Transfer) .....	69
3.4.2	Holding a Call .....	69
3.4.3	Holding in a System Parking Zone (Call Park) .....	70
3.4.4	Talking to Two Parties Alternately (Call Splitting) .....	70
3.4.5	Making a Three-party Conference .....	71
3.4.6	Muting the Microphone or the Handset .....	72
3.4.7	Using Call Waiting .....	72
3.4.8	Using Off-hook Monitor .....	73
3.4.9	Using Training Mode .....	73
<b>3.5</b>	<b>Making a Video Call (KX-HDV430 only) .....</b>	<b>74</b>
3.5.1	Video Call Screen .....	74
3.5.2	Video Call Options .....	75
3.5.3	Pausing and resuming sending your video feed .....	75
3.5.4	Switching the call type during a conversation .....	76
3.5.5	Adjusting the Quality of the Picture .....	76
<b>3.6</b>	<b>Before Leaving Your Desk .....</b>	<b>77</b>
3.6.1	Setting Call Forwarding and Do Not Disturb .....	77
<b>3.7</b>	<b>Using the Phonebook .....</b>	<b>78</b>
3.7.1	Storing an Item in the Personal Phonebook .....	78
3.7.2	Editing a stored item in the Personal Phonebook .....	80
3.7.3	Deleting a Stored Item in the Personal Phonebook .....	81
3.7.4	Searching for an Item in the Personal Phonebook .....	81
3.7.5	Locking/Unlocking the Phonebook .....	83
3.7.6	Searching for an Item in the Shared Phonebook .....	84
<b>3.8</b>	<b>Checking the Line Status .....</b>	<b>85</b>
<b>3.9</b>	<b>Listening to Voice Mail Messages .....</b>	<b>86</b>
3.9.1	Xsi Visual Voice Mail .....	86
<b>3.10</b>	<b>Network Camera (KX-HDV430 only) .....</b>	<b>87</b>
3.10.1	Registering a Network Camera .....	87
3.10.2	Network Camera Viewer .....	88
3.10.3	Using Phone Numbers Associated with a Network Camera .....	89
3.10.4	Network Camera Presets .....	90
3.10.5	Adjusting the Brightness of the Picture .....	91
3.10.6	Automatic Mode .....	92
3.10.7	Receiving Alarms from Network Cameras .....	92
<b>3.11</b>	<b>Communication Camera (KX-HDV430 only) .....</b>	<b>95</b>
3.11.1	Using a Communication Camera .....	95
3.11.2	Operation Icons of the Communication Camera Screen .....	96
<b>4</b>	<b>Customizing the Telephone .....</b>	<b>97</b>
4.1	Setting the LCD Display .....	98
4.2	Setting the Password .....	99
4.3	Using Hot Keys .....	100
4.4	Function Keys (Program Keys and DSS Keys) .....	102
4.4.1	Program Keys .....	102
4.4.2	Changing the Function Keys .....	102
4.4.3	The Types of Function Keys .....	102
4.5	Using the Anonymous Call Features .....	106
4.6	Barring Incoming Calls (Caller ID <sup>TM</sup> service users only) .....	107
4.7	Setting ECO Mode .....	109
4.8	Changing the Basic Setting .....	110
4.8.1	Basic Settings Menu Layout .....	110
4.9	Changing the System Settings .....	117
4.9.1	System Settings Menu Layout .....	117
4.10	Changing the Advanced Settings .....	122

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4.10.1	Advanced Settings Menu Layout .....	122
4.11	<b>Web User Interface Programming .....</b>	<b>125</b>
4.12	Updating the Software .....	125
<b>5</b>	<b>Appendix .....</b>	<b>127</b>
5.1	Character Mode Table .....	128
5.2	Character Table for Administrator Password .....	133
5.3	Settings Displayed in the Menu .....	134
5.4	Specifications .....	136
5.5	Troubleshooting .....	140
5.6	Error Messages .....	144
5.7	Revision History .....	145
5.8	Wall mounting template .....	146
5.8.1	KX-HDV330 / KX-HDV340 / KX-HDV430, optionally with 1 attached KX-HDV20 .....	147
5.8.2	For mounting 2 or more KX-HDV20 units .....	148



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# **Section 1**

## ***Important Information***

*This section provides important information intended to prevent personal injury and property damage.*

# 1.1 Data Security

We cannot be responsible for damages resulting from the misuse of this product.

- Keep a copy of all important data (such as the phonebook list) in case the machine malfunctions and data cannot be recovered.
- This product can store your private/confidential information. To protect your privacy/confidentiality, we recommend that you erase the information such as the phonebook or call log from the memory before you dispose of, transfer or return the product, or have the product repaired.
- To avoid unauthorized access to this product:
  - Keep the password secret.
  - Change the default password.
  - Set a password that is random and cannot be easily guessed.
  - Change the password regularly.
- Security settings, such as passwords, cannot be undone at Panasonic service centers. Take measures to prevent passwords from being lost or forgotten.
- If a password is forgotten, initialize the unit and configure the settings again. For details, consult your administrator or dealer.
- It is recommended that you lock the phonebook to prevent stored information from being leaked.

# 1.2 Disposal of Old Equipment and Batteries

**Only for European Union and countries with recycling systems**



These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.



**Note for the battery symbol (bottom symbol)**

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.



## 1.3 Regional Information

### 1.3.1 For Users in European Countries

The following declaration is applicable to KX-HDV330NE / KX-HDV330X / KX-HDV340NE / KX-HDV340UK / KX-HDV430NE / KX-HDV430X only.

Hereby, Panasonic Corporation declares that the radio equipment described in this manual is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

<https://www.ptc.panasonic.eu/compliance-documents>

Contact to Authorized Representative:

Panasonic Testing Center

Panasonic Marketing Europe GmbH

Winsbergring 15, 22525 Hamburg, Germany

#### Ecodesign information

Ecodesign information under EU Regulation (EC) No.1275/2008 amended by (EU) Regulation No.801/2013.

The text of the ErP Free Web Product Information is available at the following internet address:

<https://www.ptc.panasonic.eu/compliance-documents>

Power consumption in networked standby and guidance are mentioned in the web site above.

### 1.3.2 For Users in the United Kingdom

- This unit is designed to be installed under controlled conditions of ambient temperature and a relative humidity.
- Avoid installing the unit in damp or humid environments, such as bathrooms or swimming pools.
- 999 and 112 can be dialed on the product after accessing the outside line for the purpose of making outgoing calls to the BT emergency (999) and (112) services. The method for accessing an outside line differs depending on the SIP server. For details, confirm the features of the SIP server.

### 1.3.3 For Users in Australia

#### WARNING

- Please ensure that a separate telephone, not dependent on local power, is available for emergency use.
- This equipment will be inoperable when mains power fails.
- No "000" or other calls can be made from this device during a mains power failure.

### 1.3.4 For Users in Australia and the United Kingdom

- This unit is capable of being used in conjunction with hearing aids fitted with inductive coil pick-ups. The handset should be held as for normal conversation. For operation, the hearing aid should be set to its "T" position or as directed in the operating instructions for the hearing aid.
- This unit is designed to aid the visually handicapped to locate dial keys and buttons.



## 1.3.5 For Users in New Zealand

This equipment shall not be set to make automatic calls to the Telecom '111' Emergency Service.

### PTC General Warning

The grant of a Telepermit for any item of terminal equipment indicates only that Telecom has accepted that the item complies with minimum conditions for connection to its network. It indicates no endorsement of the product by Telecom, nor does it provide any sort of warranty. Above all, it provides no assurance that any item will work correctly in all respects with another item of Telepermitted equipment of a different make or model, nor does it imply that any product is compatible with all of Telecom's network services.

### The Use of IP Networks through the PSTN

Internet Protocol (IP) by its nature introduces delay into speech signals as each data packet is formulated and addressed. Telecom Access Standards recommends that suppliers, designers and installers using this technology for calls to or from the PSTN refer to ITU E Model requirements in the design of their networks. The overall aim is to minimize delay, distortion and other transmission impairments, particularly for those calls involving cellular and international networks, which already suffer extensive delay.

### Echo cancellation

Echo cancelers are not normally required in the Telecom PSTN because geographic delays are acceptable where CPE return loss is maintained within Telepermit limits. However, those private networks making use of Voice over IP technology are required to provide echo cancellation for all voice calls. The combined effect of audio/VoIP conversion delay and IP routing delay can cause the echo cancellation time of  $\geq 64$  ms to be required.

### Important Notice

- Under power failure conditions this appliance may not operate. Please ensure that a separate telephone, not dependent on local power, is available for emergency use.
- No "111" or other calls can be made from this device during a mains power failure.

## 1.3.6 For Users in the United States

### FCC Note

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

### FCC CAUTION

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this product.

**FCC RF Exposure Warning:**

- This product complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- To comply with FCC RF exposure requirements, this product must be installed and operated 20 cm (8 inches) or more between the product and all person's body.
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.

FCC ID can be found on the bottom of the units.

Privacy of communications may not be ensured when using this phone.

**Supplier's Declaration of Conformity**

Trade Name: Panasonic

Model No.: KX-HDV330, KX-HDV340, KX-HDV430

Responsible Party: Panasonic Corporation of North America  
Two Riverfront Plaza, Newark, New Jersey 07102-5490

Support Contact: 1 (800) 528-6747 Option 1

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Hearing Aid Compatibility**

This telephone provides magnetic coupling for hearing aids as defined by the FCC in 47 CFR Section 68.316. Use only handsets or other acoustic devices with this equipment that are compliant with the hearing aid compatibility requirements of FCC Part 68.

When you hold the phone to your ear, noise might be heard in your Hearing Aid. Some Hearing Aids are not adequately shielded from external RF (radio frequency) energy. If noise occurs, use an optional headset accessory or the speakerphone option (if applicable) when using this phone. Consult your audiologist or Hearing Aid manufacturer about the availability of Hearing Aids which provide adequate shielding to RF energy commonly emitted by digital devices.

**Compliance with TIA-1083 standard:**

Telephone handsets identified with this logo have reduced noise and interference when used with T-Coil equipped hearing aids and cochlear implants.

**WHEN PROGRAMMING EMERGENCY NUMBERS AND/OR MAKING TEST CALLS TO EMERGENCY NUMBERS:**

1. Remain on the line and briefly explain to the dispatcher the reason for the call before hanging up.
2. Perform such activities during off-peak hours, such as early morning or late evening.

**1.3.7 For Users in Canada****Industry Canada Notices and Other Information**

This product meets the applicable Innovation, Science and Economic Development Canada technical specifications.

#### Notice

- This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.
- This Class B digital apparatus complies with Canadian ICES-003.

#### CAUTION

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this product.

#### Compliance with TIA-1083 standard:



Telephone handsets identified with this logo have reduced noise and interference when used with T-Coil equipped hearing aids and cochlear implants.

#### RF Exposure Warning:

- This product complies with IC radiation exposure limits set forth for an uncontrolled environment.
- To comply with IC RF exposure requirements, this product must be installed and operated 20 cm (8 inches) or more between the product and all person's body.
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.

Privacy of communications may not be ensured when using this phone.

## 1.4 For Best Performance

### Environment

- Keep the product away from heating appliances and devices that generate electrical noise, such as fluorescent lamps, motors and televisions. These noise sources can interfere with the performance of the product.
- Do not place the product in rooms where the temperature is less than 0 °C (32 °F) or greater than 40 °C (104 °F).
- Allow 10 cm (4 in) clearance around the product for proper ventilation.
- Avoid environments with excessive smoke, dust, moisture, mechanical vibration, shock, or direct sunlight.
- The apparatus is designed to be installed and operated under controlled conditions of ambient temperature and a relative humidity.

### Routine Care

- Unplug the AC adaptor from the AC outlet and disconnect the Ethernet cable before cleaning.
- Wipe the product with a soft cloth.
- Do not clean the product with abrasive powder or with chemical agents such as benzine or thinner.
- Do not use liquid cleaners or aerosol cleaners.

### Touch Display

- Touch the display only with the end of your finger. Do not touch the display with sharp objects, such as a pen or your fingernails.
- Use only one finger. Touching the display with more than one finger can result in unexpected behavior.

### Placement

- Do not place heavy objects on top of the product.
- Care should be taken so that objects do not fall onto, and liquids are not spilled into the product.

### Optional Equipment

- A KX-HDV20 (20 Key Expansion Module) can be used with the product.
- The KX-HDV20 can be used only when the product receives power from the optional AC adaptor; it cannot be used when the product receives power via Power-over-Ethernet (PoE).
- Up to 5 KX-HDV20 units can be connected to the product.  
To mount a second KX-HDV20 unit or more, mount each in turn, unattached to the main unit.



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## **Section 2**

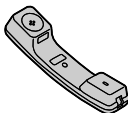

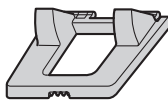
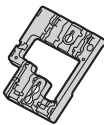


# ***Before Operating the Telephones***

*This section shows you the basic information for your telephone.*

## 2.1 Accessory Information

### Included Accessories

KX-HDV330 / KX-HDV340 / KX-HDV430

Handset: 1 	Handset Cord: 1 	Stand: 1 
Wall Mounting Adaptor: 1 	Screw for wall mounting adaptor: 1 	Screws for wall mounting: 2 

### Optional Accessories

KX-HDV330 / KX-HDV340

Model	AC Adaptor <sup>*1</sup>	20 Key Expansion Module
KX-HDV330 / KX-HDV330C / KX-HDV340	KX-A422 (PNLV228) / KX-A424 (PNLV6508)	KX-HDV20
KX-HDV330NE / KX-HDV340NE	KX-A422CE (PNLV228) / KX-A424CE (PNLV6508)	KX-HDV20NE
KX-HDV330RU	KX-A424CE (PNLV6508)	KX-HDV20RU
KX-HDV330X	KX-A422X (PNLV228) / KX-A424X (PNLV6508) / KX-A422AL (PNLV228) / KX-A424AL (PNLV6508) / KX-A422CE (PNLV228) / KX-A424CE (PNLV6508) / KX-A422UK (PNLV228) / KX-A424E (PNLV6508) / KX-A424AG (PNLV6508) / KX-A424TW (PNLV6508) / KX-A424BR (PNLV6508)	KX-HDV20X
KX-HDV330SX	KX-A424SX (PNLV6508)	KX-HDV20SX
KX-HDV340UK	KX-A422UK (PNLV228) / KX-A424E (PNLV6508)	KX-HDV20X

- <sup>\*1</sup>
- This unit complies with the IEEE 802.3af Power-over-Ethernet (PoE) standard. If PoE is available on your network, this unit can receive the necessary power from the network through the Ethernet cable. In this case, no AC adaptor is needed. However, if PoE is not available or if you will use a KX-HDV20 (20 Key Expansion Module), you will need to connect an AC adaptor to the unit.
  - To order an optional AC adaptor, please order using the "KX-A422xx"/"KX-A424xx" model number. For details about which AC adaptor model number you should order, consult your dealer.


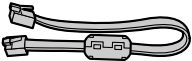
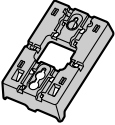





**KX-HDV430**

Model	AC Adaptor <sup>*1</sup>	20 Key Expansion Module
KX-HDV430NE	KX-A424CE (PNLV6508)	KX-HDV20NE
KX-HDV430RU		KX-HDV20RU
KX-HDV430X	KX-A424X (PNLV6508) / KX-A424AL (PNLV6508) / KX-A424BR (PNLV6508) / KX-A424CE (PNLV6508) / KX-A424E (PNLV6508) / KX-A424AG (PNLV6508) / KX-A424TW (PNLV6508)	KX-HDV20X
KX-HDV430SX	KX-A424SX (PNLV6508)	KX-HDV20SX
KX-HDV430 / KX-HDV430C	KX-A424 (PNLV6508)	KX-HDV20

- <sup>\*1</sup>
- This unit complies with the IEEE 802.3af Power-over-Ethernet (PoE) standard. If PoE is available on your network, this unit can receive the necessary power from the network through the Ethernet cable. In this case, no AC adaptor is needed. However, if PoE is not available or if you will use a KX-HDV20 (20 Key Expansion Module), you will need to connect an AC adaptor to the unit.
  - To order an optional AC adaptor, please order using the "KX-A424xx" model number. For details about which AC adaptor model number you should order, consult your dealer.

**KX-HDV20 Included Accessories**

Stand: 1 	Connection cable: 1 	Wall mounting adaptor: 1 
Screw for wall mounting adaptor: 1 	Screws for wall mounting: 2 	Screw for attaching the KX-HDV20 to the unit: 1 

**Note**

- **For users in the United States only**
  - To order accessories, call toll-free 1-800-332-5368.

## 2.2 Installation and Setup

### Note

- Panasonic assumes no responsibility for injuries or property damage resulting from failures arising out of improper installation or operation inconsistent with this documentation.
- The installation and setup method are illustrated by figure KX-HDV330.

### WARNING

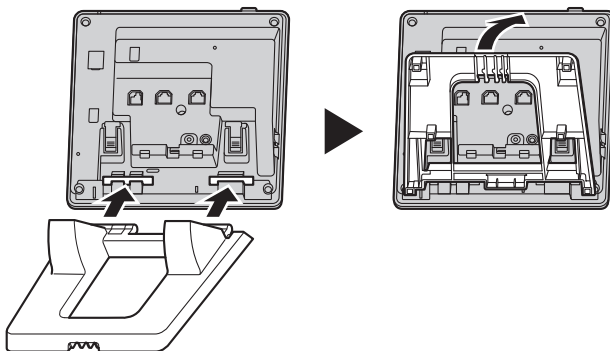
- To reduce the risk of fire or electric shock, do not overload AC outlets and extension cords.
- Completely insert the AC adaptor/power plug into the AC outlet. Failure to do so may cause electric shock and/or excessive heat resulting in a fire.
- Regularly remove any dust, etc. from the AC adaptor/power plug by pulling it from the power outlet, then wiping with a dry cloth. Accumulated dust may cause an insulation defect from moisture, etc. resulting in a fire.

### 2.2.1 Attaching the Stand

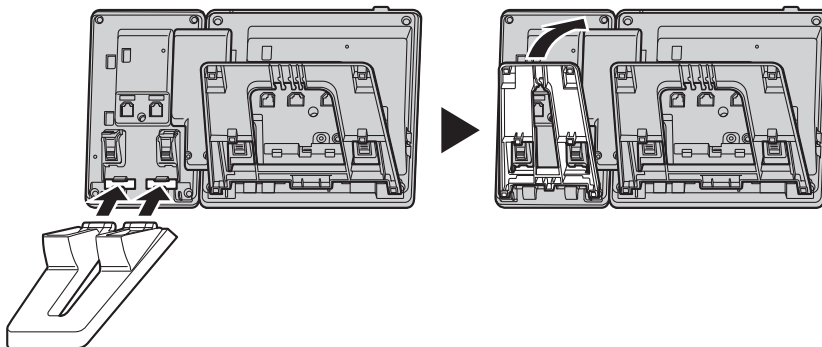
Attach the stand to the desk phone.

1. Insert the stand into the slots located in the unit.
2. Gently rotate the stand in the direction indicated until it is fixed.

#### KX-HDV330 / KX-HDV340 / KX-HDV430



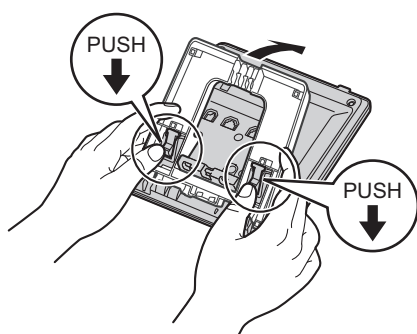
#### KX-HDV20



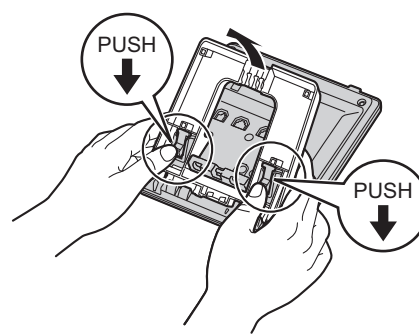
## 2.2.2 Adjusting the Stand Position

Push the PUSH marks in the direction indicated, with both hands, and tilt and slide the stand until it becomes fixed in the desired position.

- Lowering the stand

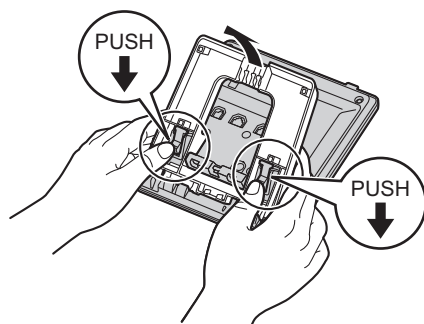


- Raising the stand



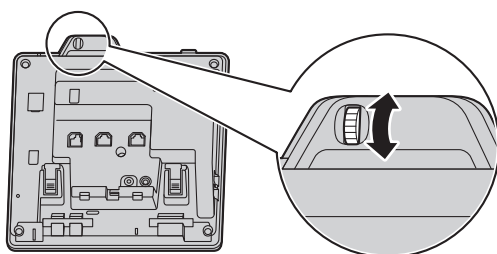
## 2.2.3 Removing the Stand

Tilt the stand in the direction indicated while pushing the PUSH marks with both hands.



## 2.2.4 Adjusting the Camera Angle (KX-HDV430 only)

You can tilt the camera's angle by turning the wheel on the back of the camera.



↑ : Tilt the camera upward.  
↓ : Tilt the camera downward.

### Note

If the camera is not being used, the lens can be hidden by turning the wheel to the top.

#### 2.2.4 Adjusting the Camera Angle (KX-HDV430 only)

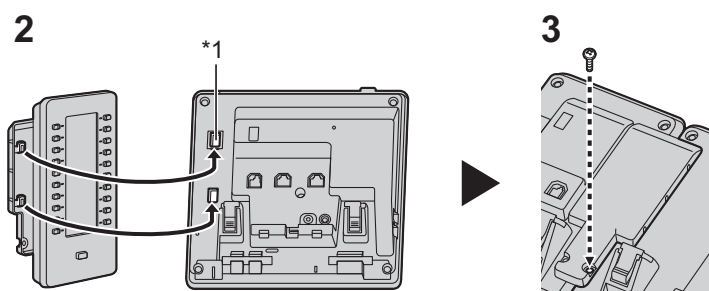
---

In that case,  mark will appear instead of the camera lens.

## 2.2.5 Attaching the Optional KX-HDV20 to the Unit

The optional KX-HDV20 has 20 DSS keys, and it adds 40 function keys (20 keys × 2 pages) to the unit. These keys can be used to seize a line to make or receive a call or to perform a feature that has been assigned to the key.

1. Remove the stand from both the KX-HDV330 / KX-HDV340 / KX-HDV430 and KX-HDV20.
2. Insert the tabs of the KX-HDV20 into the designated openings in the base, and then slide the KX-HDV20 in the direction of the arrow.
3. Fasten the KX-HDV20 to the unit with the included screw.



\*1 Remove the hole cover.

4. Attach the stand to both the KX-HDV330 / KX-HDV340 / KX-HDV430 and the KX-HDV20. See "2.2.1 Attaching the Stand". Or, if the unit will be mounted on a wall, perform wall mounting.
5. Connect the KX-HDV20 to the unit with the included cable.
6. Turn on the KX-HDV330 / KX-HDV340 / KX-HDV430.

### Note

- Up to 5 KX-HDV20 units can be connected to the product.

### [Example] KX-HDV330 with an optional KX-HDV20



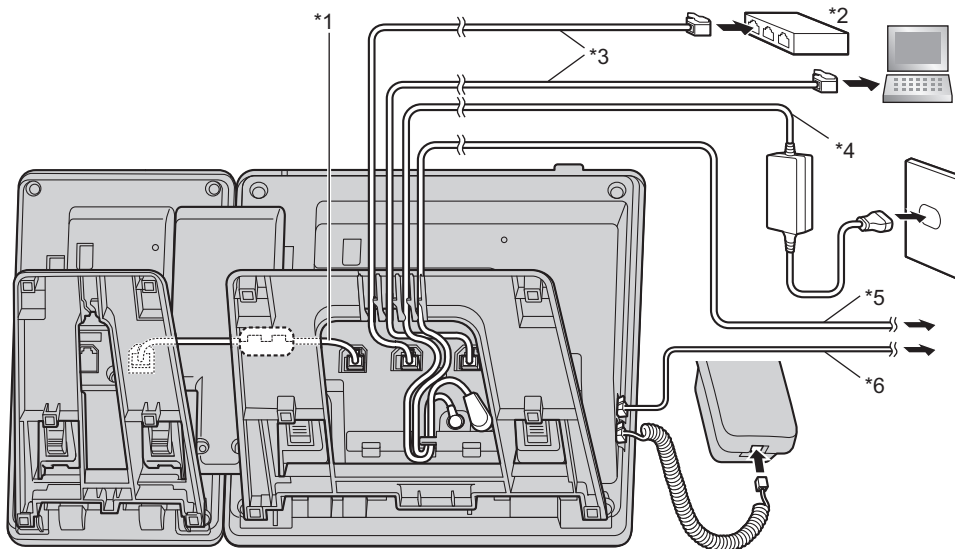
### 2.2.6 Connections (including optional KX-HDV20)

Connect the Ethernet cable, the Handset Cord and the AC adaptor (option) to the unit.

#### Notice

- The KX-HDV20 can be used only when the product receives power from the optional AC adaptor; it cannot be used when the product receives power via Power-over-Ethernet (PoE).

#### KX-HDV330 / KX-HDV340 / KX-HDV430 / KX-HDV20



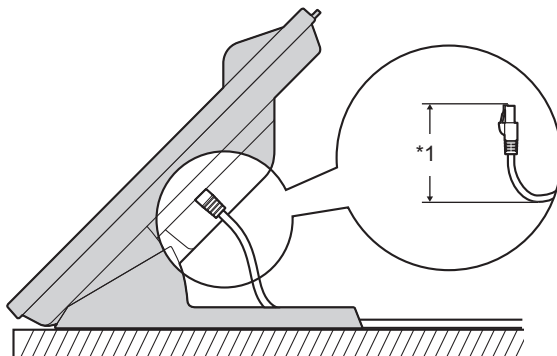
- \*1 Connection cable  
Connect the connection cable as shown in the illustration.
- \*2 PoE HUB
- \*3 LAN cable
- \*4 Optional AC adaptor
- \*5 Optional EHS headset  
For up-to-date information about EHS headsets that have been tested with this unit, refer to the following web site:  
<https://panasonic.net/cns/pcc/support/sipphone/>
- \*6 Optional headset  
For up-to-date information about headsets that have been tested with this unit, refer to the following web sites:  
<https://panasonic.net/cns/pcc/support/sipphone/>

#### Note

- The initial setting for the IP address is "DHCP–Auto". For information about your network environment, contact your administrator.

#### When selecting Ethernet cables (not included)

- Use flexible cables without jack covers. Do not use cables with a hard coating that may tear or crack when bent. To prevent damage to the cables, use cables that do not protrude from the bottom of the base.
- Connect the cables as shown in the following illustration.



\*1 60 mm (2 3/8 in) or less

Use a straight CAT 5e (or higher) Ethernet cable (not included) that is 6.5 mm (1/4 in) in diameter or less.

### **When connecting to a switching hub**

If PoE is available, an AC adaptor is not needed.

If you are using a PoE hub, the number of devices that you can connect simultaneously is limited by the amount of power supplied by the hub.

### **When connecting a PC**

The PC port does not support PoE for connected devices.

### **When connecting cables and the AC adaptor**

Pass the Ethernet cable and the AC adaptor cord under the stand.

### 2.2.7 Wall Mounting

The KX-HDV330 / KX-HDV340 / KX-HDV430 and up to 5 optional KX-HDV20 units can be mounted on a wall.

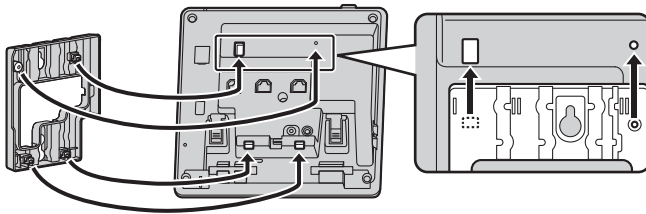
#### Notice

- When inserting screws, avoid pipes and electrical cables, etc., that may be present/buried.
- The screw heads should not be flush to the wall.

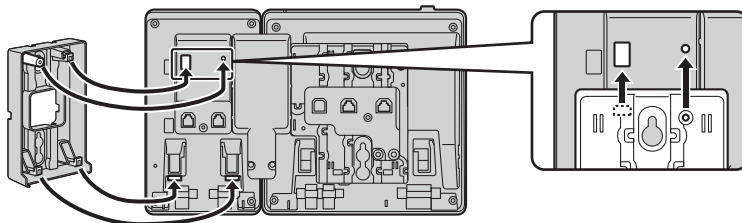
#### Note

- Make sure that the wall and the fixing method are strong enough to support the weight of the unit.
  - You can find a wall mounting template at the end of this manual.
  - Certain types of wall may require plugs to be anchored in the wall before the screws are inserted.
1. Insert the tabs of the wall mounting adaptor into the designated openings in the base, and then slide the wall mounting adaptor in the direction of the arrow until it clicks.

#### KX-HDV330 / KX-HDV340 / KX-HDV430

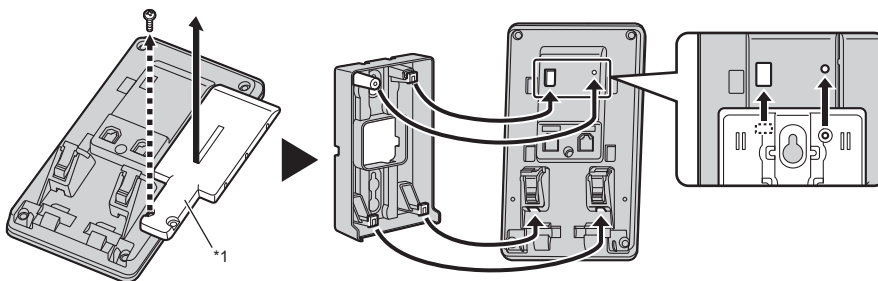


#### With optional KX-HDV20



#### For 2nd to 5th KX-HDV20

Remove the screw from the DSS cover of the KX-HDV20, and then slide the cover up to remove it.



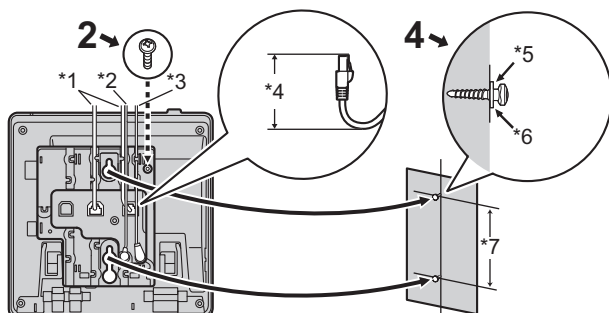
\*1 DSS cover

2. Fasten the wall mounting adaptor to the base with the small screw.  
(Recommended torque: 0.4 N·m [4.08 kgf·cm / 3.54 lbf·in] to 0.6 N·m [6.12 kgf·cm / 5.31 lbf·in])
3. Connect the AC adaptor, handset cord, Ethernet cables, and connection cable as necessary.

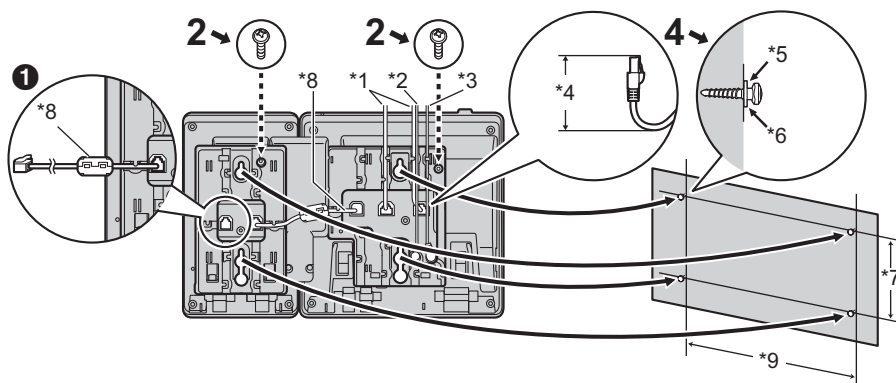


4. Drive the large screws into the wall either 83 mm (3 1/4 in) or 100 mm (3 15/16 in) apart, and mount the unit on the wall.

#### KX-HDV330 / KX-HDV340 / KX-HDV430



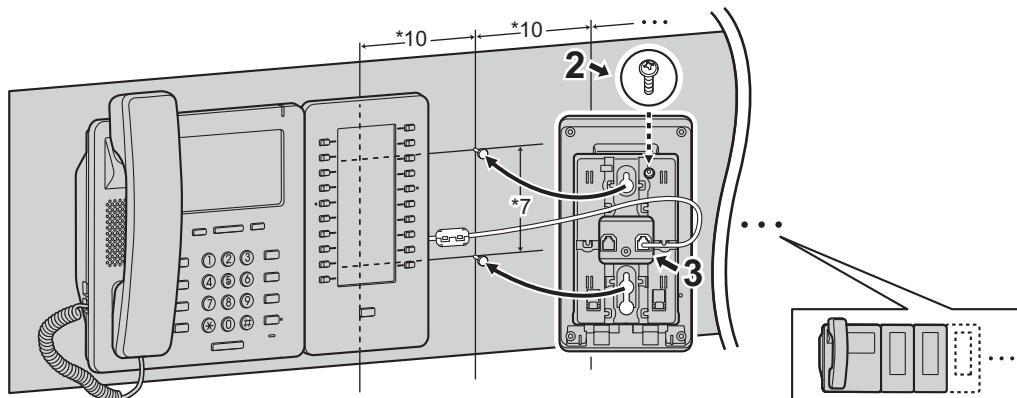
#### With optional KX-HDV20



- 1 If you will mount additional KX-HDV20 units, connect the connection cable for the next unit to the unit you are attaching.

## 2.2.7 Wall Mounting

### For 2nd to 5th KX-HDV20

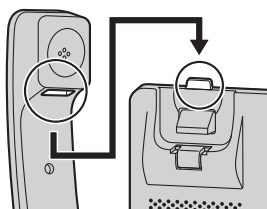


- \*1 Ethernet cables
- \*2 EHS headset cable
- \*3 AC adaptor
- \*4 40 mm (1 37/64 in) or less
- \*5 Washer
- \*6 Drive the screw to this point.
- \*7 83 mm (3 1/4 in) or 100 mm (3 15/16 in)
- \*8 Connection cable  
Connect the connection cable as shown in the illustration.
- \*9 152 mm (6 in)
- \*10 111 mm (4 3/8 in)

## 2.2.8 Hooking the Handset

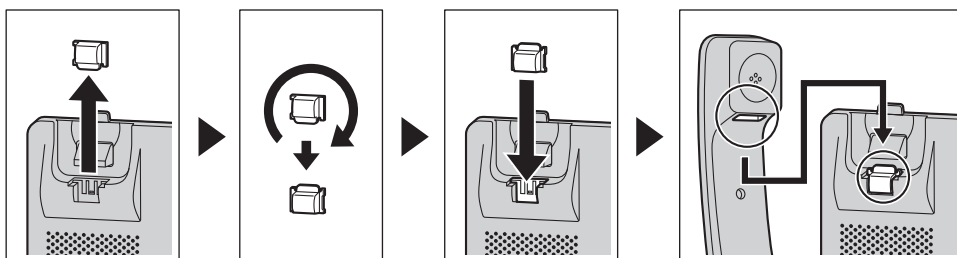
### To Hook the Handset during a Conversation

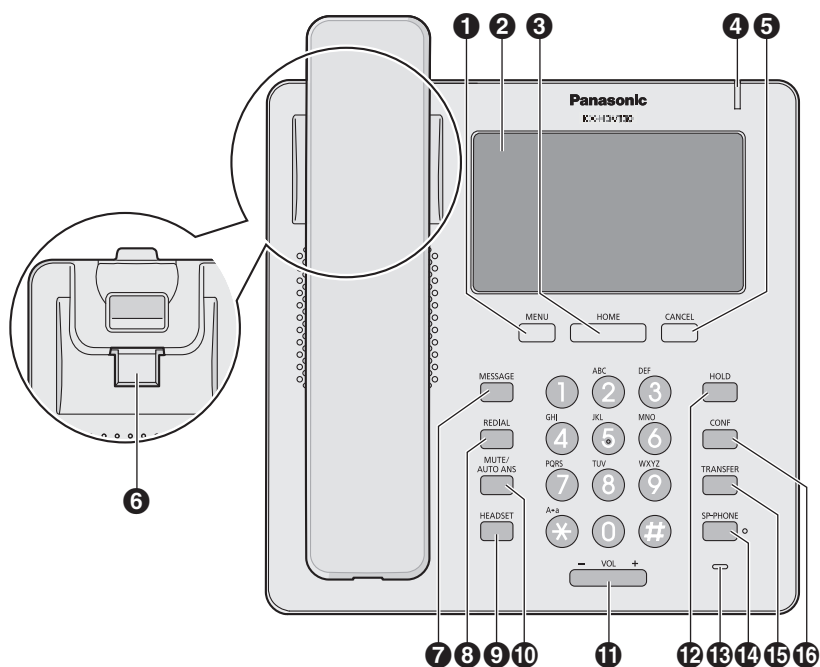
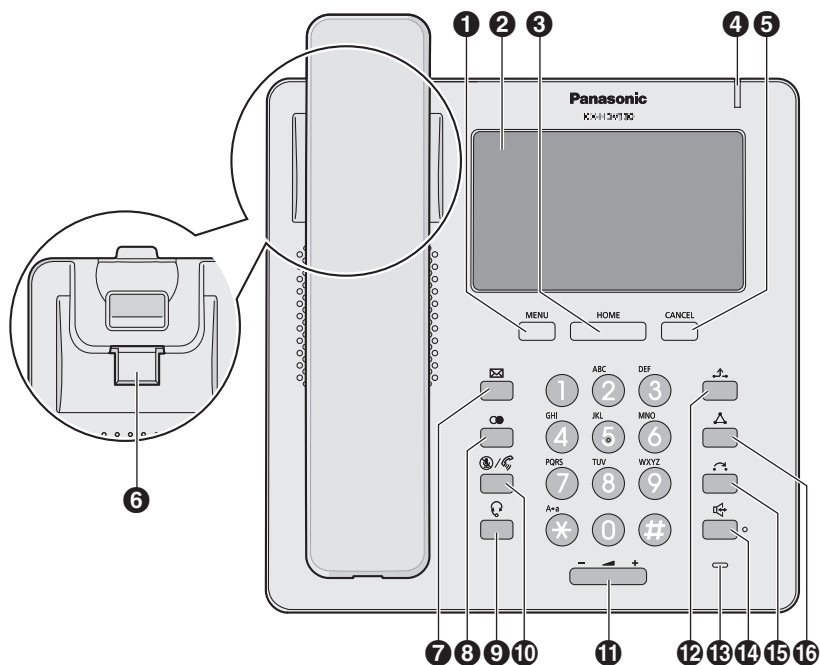
1. Hook the handset over the top edge of the unit.



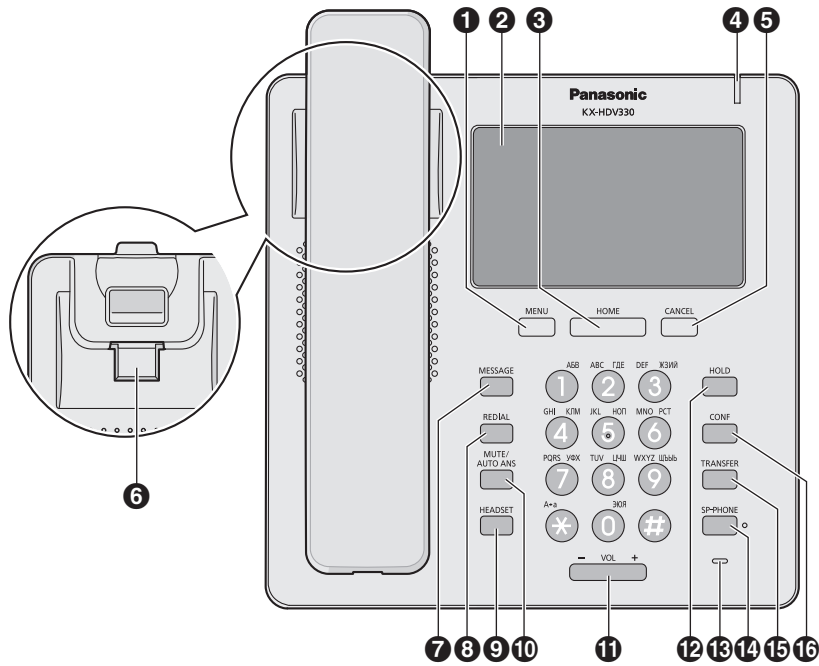
### To Lock the Handset Hook when the Unit is Wall Mounted

1. Remove the handset hook from the slot.
2. Turn it up-side-down.
3. Slide the handset hook back into the slot until it locks.
  - Handset is safely hooked when it is in the cradle.

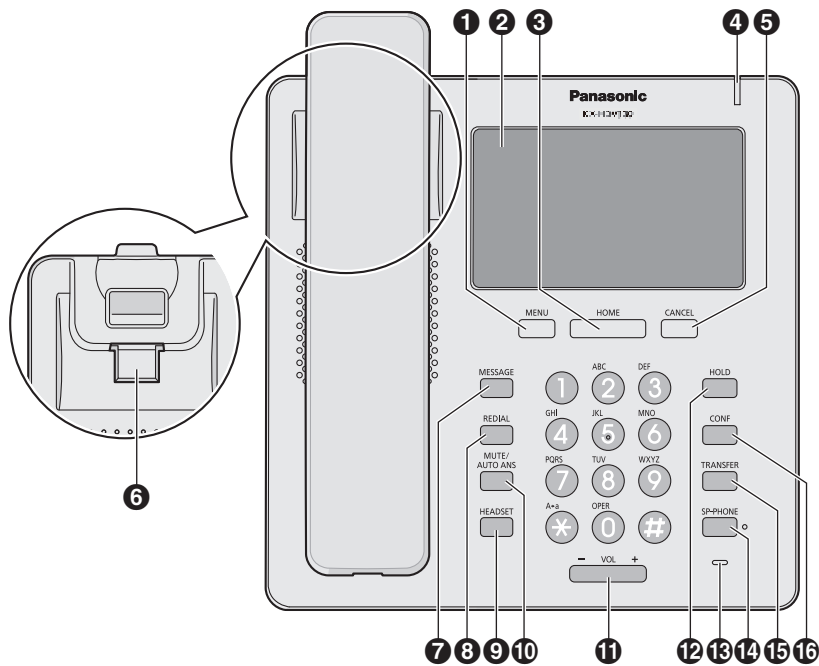




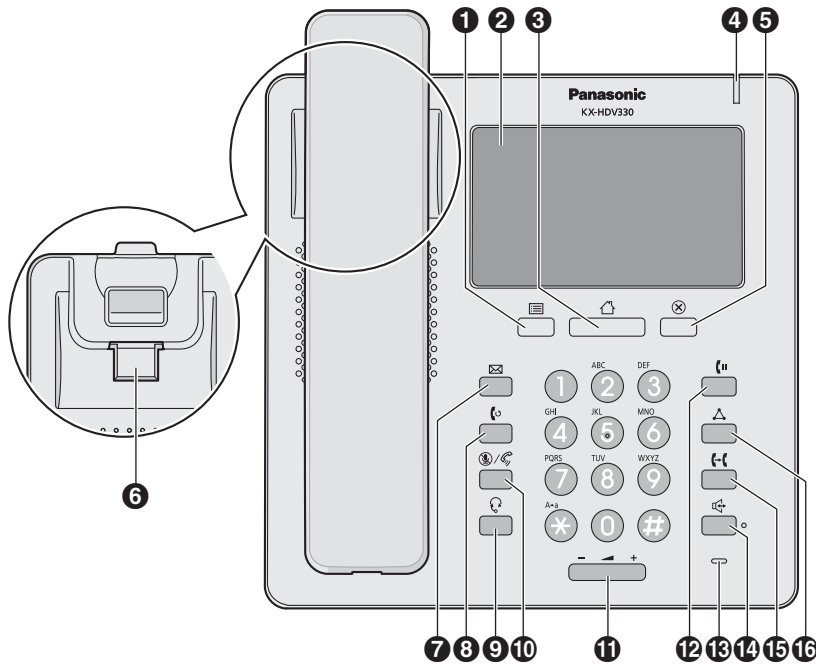
KX-HDV330RU



KX-HDV330/KX-HDV340



### KX-HDV330C



- 1** **MENU**

Display the menu. The contents of the menu differ depending on the settings and mode.  
For details about the settings displayed in the menu, see "5.3 Settings Displayed in the Menu".
- 2** **Touch display**

For details about the display, see "2.4.1 Display".
- 3** **HOME**

Return to the Home screen.  
Depending on the mode, the screen you return to and other operations differ. You can also switch the display by pressing this key.  
KX-HDV330:  
For details, see "2.4.5 Switching the Display by Pressing /HOME (For KX-HDV330/KX-HDV430)".  
KX-HDV340:  
For details, see "2.4.6 Switching the Display by Pressing /HOME (For KX-HDV340)".
- 4** **Ringer / Message Waiting / Missed Call Indicator**

The lamp flashes when you are receiving a call, or when you have an unread message or missed call notification.
- 5** **CANCEL**







Used to cancel the selected item.
- 6** **Handset Hook**

Keeps the handset stable when the unit is mounted on a wall.  
For details, see "2.2.8 Hooking the Handset".
- 7** **MESSAGE**

Used to access your voice mailbox.
- 8** **REDIAL**

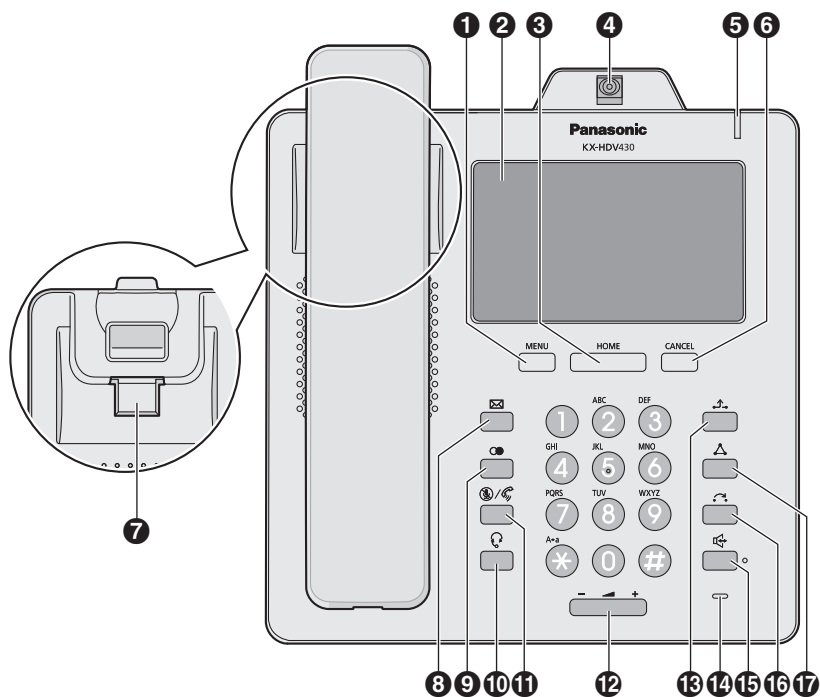
Used to redial the last dialed number.
- 9** **HEADSET**

Used for performing headset operations.

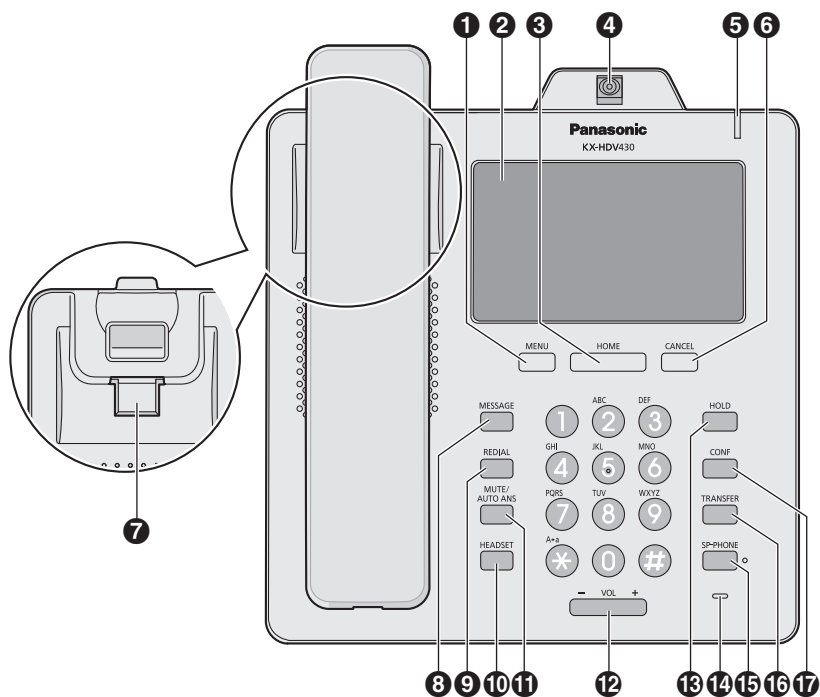
- 10  **MUTE/AUTO ANS**  
Used to receive an incoming call in hands-free mode or mute the microphone/handset during a conversation.
- 11  **VOL**  
Used to adjust the ringer/receiver volume.
- 12  **HOLD**  
During talking, used to place a call on Hold. In standby mode, used to retrieve a call on hold if there is one.
- 13 **Microphone**  
Used for hands-free conversation.
- 14  **SP-PHONE**  
Used for performing hands-free operations.
- 15  **TRANSFER**  
Used to transfer a call to another party.
- 16  **CONF**  
Used to establish a multiple-party conversation.

## 2.3 Location of Controls

### KX-HDV430NE

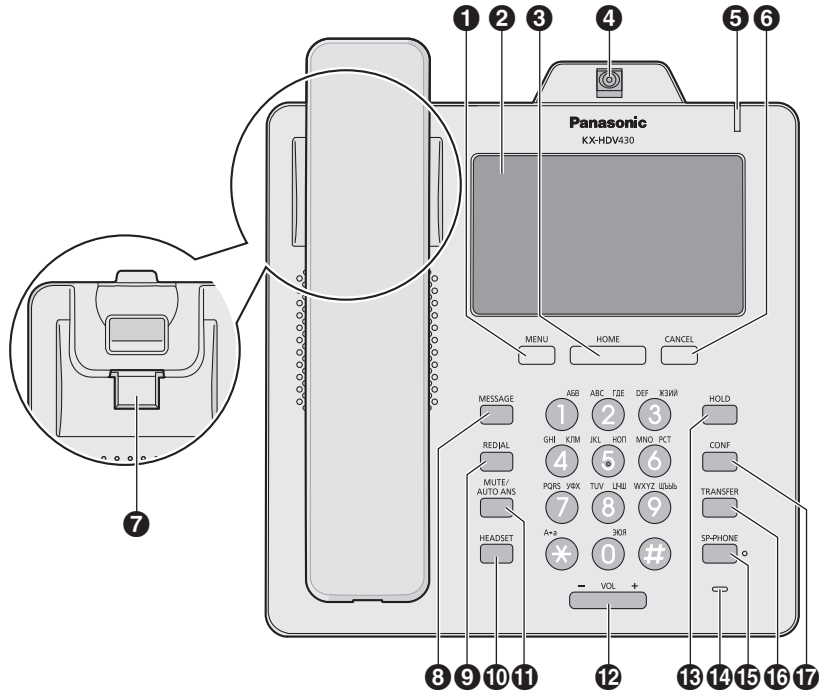


### KX-HDV430X / KX-HDV430SX

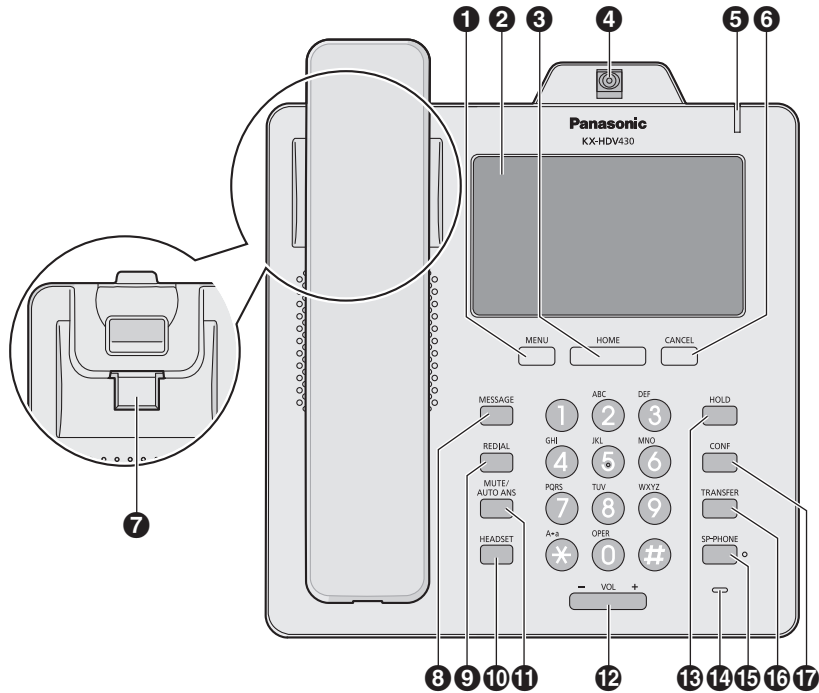




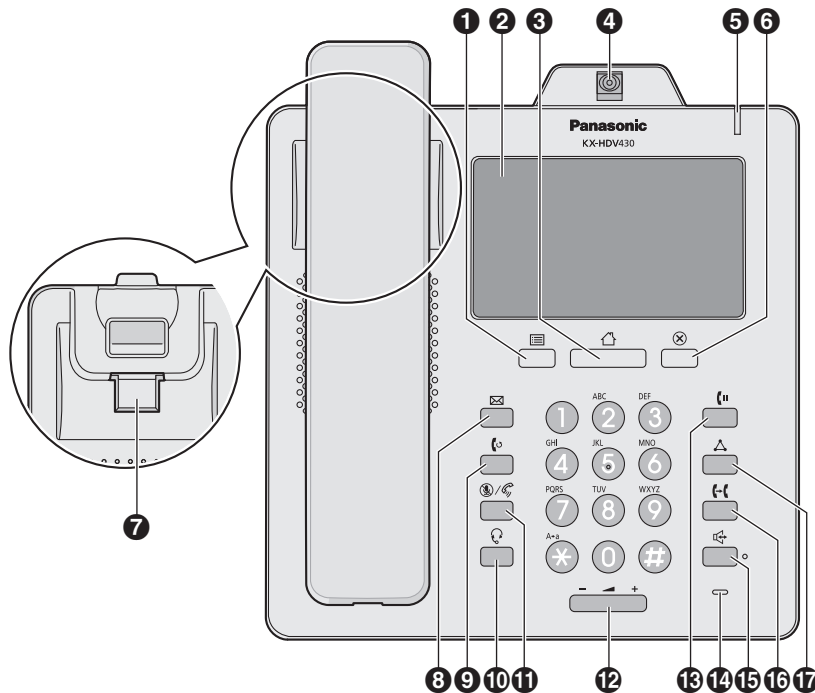
KX-HDV430RU










KX-HDV430



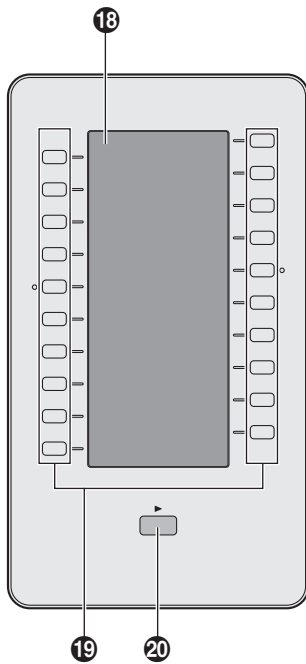
### KX-HDV430C



- 1** **MENU**  
 Display the menu. The contents of the menu differ depending on the settings and mode.  
 For details about the settings displayed in the menu, see "5.3 Settings Displayed in the Menu".
- 2** **Touch display**  
 For details about the display, see "2.4.1 Display ".
- 3** **HOME**  
 Return to the Home screen.  
 Depending on the mode, the screen you return to and other operations differ. You can also switch the display by pressing this key. For details, see "2.4.5 Switching the Display by Pressing /HOME (For KX-HDV330/KX-HDV430)".
- 4** **Camera**  
 Used for video communication. The other party can view the video feed from your camera if they have a compatible device. You can tilt the camera's angle by turning the wheel on the back of the camera. For details about the camera, see "2.2.4 Adjusting the Camera Angle (KX-HDV430 only)".
- 5** **Ringer / Message Waiting / Missed Call Indicator**  
 The lamp flashes when you are receiving a call, or when you have an unread message or missed call notification.
- 6** **CANCEL**  
 Used to cancel the selected item.
- 7** **Handset Hook**  
 Keeps the handset stable when the unit is mounted on a wall.  
 For details, see "2.2.8 Hooking the Handset".
- 8** **MESSAGE**  
 Used to access your voice mailbox.
- 9** **REDIAL**  
 Used to redial the last dialed number.

- 10  **HEADSET**  
Used for performing headset operations.
- 11  **MUTE/AUTO ANS**  
Used to receive an incoming call in hands-free mode or mute the microphone/handset during a conversation.
- 12  **VOL**  
Used to adjust the ringer/receiver volume.
- 13  **HOLD**  
During talking, used to place a call on Hold. In standby mode, used to retrieve a call on hold if there is one.
- 14 **Microphone**  
Used for hands-free conversation.
- 15  **SP-PHONE**  
Used for performing hands-free operations.
- 16  **TRANSFER**  
Used to transfer a call to another party.
- 17  **CONF**  
Used to establish a multiple-party conversation.

### KX-HDV20NE / KX-HDV20X / KX-HDV20RU / KX-HDV20 / KX-HDV20SX



**18 Self-labeling LCD**

For details about the self-labeling LCD, see "2.4.7 KX-HDV20 Self-labeling LCD".

**19 DSS Keys [01–20]\***

Used to perform the assigned function. When a key is assigned as a Line key, it can be used to confirm the status of the line. The key name that you assigned is displayed on the KX-HDV20's self-labeling LCD. For details about changing the DSS keys, see "4.4 Function Keys (Program Keys and DSS Keys)".

**20 DSS Page Key\***

Used to switch the page of DSS keys displayed on the KX-HDV20 self-labeling LCD. There are two pages of 20 DSS keys.

\*1 These keys can be used when you connect a KX-HDV20 to the unit. "DSS" stands for "Direct Station Selection".

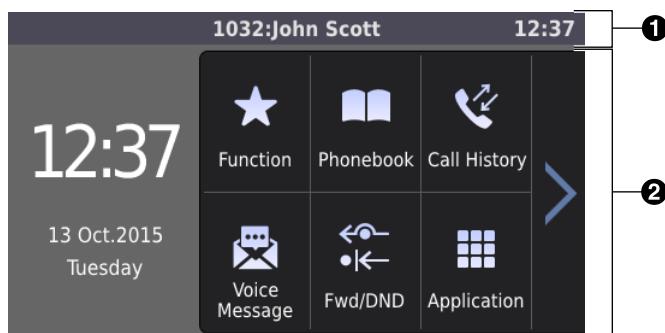
## 2.4 The Display and Icons

This section explains the keys and icons that appear on the display.

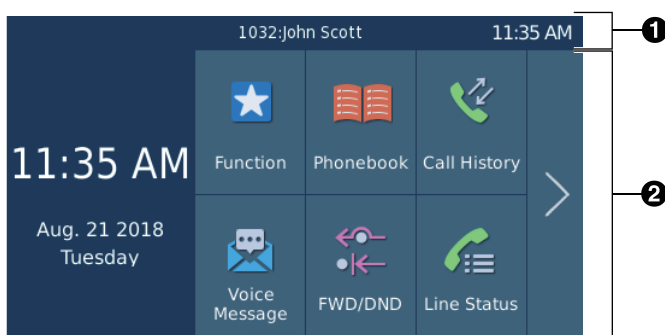
### 2.4.1 Display

#### [Example]

KX-HDV330/KX-HDV430



KX-HDV340



This is an example of the standby screen.

KX-HDV330/KX-HDV430:

By pressing /[HOME], you can switch the display. For details, see “2.4.5 Switching the Display by Pressing /[HOME] (For KX-HDV330/KX-HDV430)”.

KX-HDV340:

By pressing /[HOME], you can switch the display. For details, see “2.4.6 Switching the Display by Pressing /[HOME] (For KX-HDV340)”.

#### ① Status bar

Displays the number and name of the telephone line, status icons, communication method icons, the mute icon, and the time.

On the settings screens, the screen title is displayed.

Tapping this area has no effects.

If 4 or more icons are displayed, the status bar will alternate between 2 display patterns.

#### ② Operation area

Displays the screens for all functions. Tapping here operates the telephone.

The touch display responds only to tap operations.

The icons for the top screen change depending on the phone's status.
























### 2.4.1 Display

---

#### **Note**

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in color and/or appearance.























## 2.4.2 Icons displayed in the status bar

Suffix		Meaning
(none) / C	NE / RU / SX / X / UK	
		Handset in use
		Headset in use
		Using speakerphone
 		Off-hook monitor
 		Training mode
		FWD enabled
		DND enabled
		Auto answer enabled
		Mute
		Ringer off
		Call on hold If you have multiple calls on hold, the number is displayed to the right of the icon.
		Call on hold in a Call Park zone
		Conference hold
		ECO mode enabled
		Receiving an incoming call If you are receiving multiple incoming calls, the number is displayed to the right of the icon.
		Network error
		Bluetooth ® connection established
		Bluetooth connection not established

































### Note

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in color and/or appearance.
- Descriptions of icons displayed with text are not included.

## 2.4.3 Operation icons displayed in the operation area










Icon	Meaning
	New message (Top menu screen) The number of new messages is displayed in the red box. (KX-HDV330/KX-HDV430)
	Missed call (Top menu screen) The number of new missed calls is displayed in the red box. (KX-HDV330/KX-HDV430)
	Phonebook lock (Top menu screen) (KX-HDV330/KX-HDV430)
	Function (Top menu screen) The red circle indicates that there is a call arriving at a BLF key. (KX-HDV330/KX-HDV430)
	New message (Top menu screen) The number of new messages is displayed in the red box. (KX-HDV340 only)
	Missed call (Top menu screen) The number of new missed calls is displayed in the red box. (KX-HDV340 only)
	Phonebook lock (Top menu screen) (KX-HDV340 only)
	Function (Top menu screen) The red circle indicates that there is a call arriving at a BLF key. (KX-HDV340 only)
	Back
	Personal Phonebook
	Shared Phonebook
	Add contact
	Enter delete mode
	Execute delete
	Enter edit mode
	Select all items
	Save
	Cancel
	Display the previous page
	Display the next page
	Scroll left (general screens) Pan the Camera left (Network Camera viewer) (KX-HDV430 only)
	Scroll right (general screens) Pan the Camera right (Network Camera viewer) (KX-HDV430 only)



Icon	Meaning
	Tilt the Camera up (Network Camera viewer) (KX-HDV430 only)
	Tilt the Camera down (Network Camera viewer) (KX-HDV430 only)
	Move the cursor left
	Move the cursor right
	Backspace
	Pause
	Selected
	Unselected
	Search
	Category
	Missed calls
	Incoming calls
	Outgoing calls
	Network Camera alarm (KX-HDV430 only)
	New missed call
	Confirmed missed call
	Number of unchecked messages/notifications
	Unchecked message/notification
	Checked message/notification
	Call Forwarding
	Do Not Disturb
	Anonymous call
	Anonymous call rejection
	Change a message between read and unread
	Go on-hook
	Ringer off
	Move to the camera's home position (Network Camera viewer) (KX-HDV430 only)
	Zoom in (Network Camera viewer, Communication Camera) (KX-HDV430 only)
	Zoom out (Network Camera viewer, Communication Camera) (KX-HDV430 only)
	Paging (Network Camera viewer) (KX-HDV430 only)
	Switch the screen mode (during a video call) (KX-HDV430 only)
	Pause sending your video feed (during a video call) (KX-HDV430 only)

### 2.4.3 Operation icons displayed in the operation area

---

Icon	Meaning
	Resume sending your video feed (during a video call) (KX-HDV430 only)
	Display the function keys (during a video call) (KX-HDV430 only)
	Rotate the image 90 degrees (Visual Voice Mail)
	Unlock a door (Communication Camera) (KX-HDV430 only)
	Voice call (Communication Camera) (KX-HDV430 only)
	Increase a setting's value
	Decrease a setting's value
	Increase a setting's value (during a video call) (KX-HDV430 only)
	Decrease a setting's value (during a video call) (KX-HDV430 only)

#### Note

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in color and/or appearance.
- Descriptions of icons displayed with text are not included.

## 2.4.4 Character input icons


Suffix		Meaning
(none) / C	NE / RU / SX / X	
<b>ABC</b>		Latin character entry mode
<b>0-9</b>		Numeric character entry mode
<b>+RÄÄ</b>	<b>RÄÄÄ</b>	Special character (Extended 1) entry mode
<b>Ssš</b>		Special character (Extended 2) entry mode
<b>ABΓ</b>		Greek character entry mode
<b>АБВ</b>		Cyrillic character entry mode

### Note

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in color and/or appearance.

## 2.4.5 Switching the Display by Pressing /HOME (For KX-HDV330/KX-HDV430)

### Switching the display of the standby screen

While the phone is in standby mode, you can cycle through the available standby screens by pressing /HOME. The most recently displayed screen serves as the standby screen.

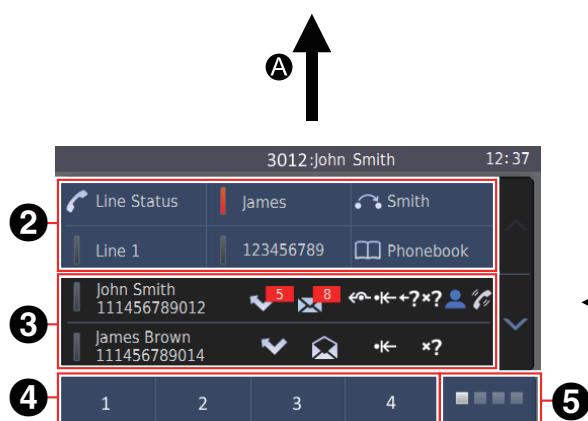
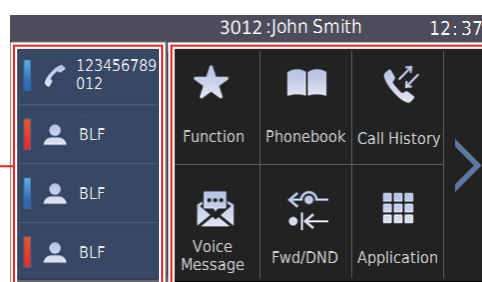
Normal display 1

Displays the menu and the current date and time



Normal display 2

Displays the menu and function keys 1 to 4



Combined display<sup>\*1</sup>

Displays the status of each line and the function keys (6 keys/page x 4 pages)




Line display<sup>\*1</sup>


Displays the status of each line


<sup>\*1</sup> This screen can be displayed from other screens, in addition to the standby screen.


- ❶ Menu
- ❷ Function key display
- ❸ Line status display
- ❹ Soft keys (display the names of available features)
- ❺ Function key page switching and status display

Tapping cycles through the function key pages. This area also displays the status of each page in order from the left: page 1 (function keys 1–6), page 2 (function keys 7–12), page 3 (function keys 13–18), and page 4 (function keys 19–24).

 : Indicates the currently displayed page

 : Indicates pages that are not currently displayed


 : Indicates pages not currently displayed where there is a call arriving at a BLF key

**A** : Press /HOME.




## Note

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in language and/or appearance.

## Switching the display of the incoming call, active call, and conference screens

While receiving a call, during a call, or during a conference, you can switch the display by pressing /HOME. The screen you switch to differs depending on the current standby display.

Pressing /HOME again returns you to the original display.

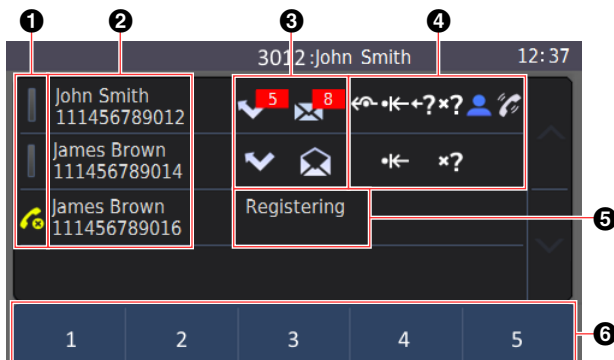
Current standby display	Display when you press  /HOME <sup>*1</sup>
Normal display 1	Line display Lines receiving a call or on a call are highlighted. (Lines with multiple incoming calls show the first call.)  is displayed on lines that are in a conference.
Normal display 2	
Line display	
Combined display	Combined display Lines receiving a call or on a call are highlighted. (Lines with multiple incoming calls show the first call.)  is displayed on lines that are in a conference.

\*1 See "Switching the display of the standby screen", page 44.

## Content of the Line Display Screen and the Combined Display Screen

You can confirm the status and information about each line. By tapping certain icons, you can view more detailed information or change settings. Also, you can execute functions or make settings by tapping the soft keys at the bottom of the display.



The figure below is an example of the line display. On the combined display, function keys are displayed along the top.








## Note

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in language and/or appearance.

### ① Line status

Icon	Status		Meaning
	Color	Light pattern	
	—	Off	Available line
	Blue	On	On a call

## 2.4.5 Switching the Display by Pressing HOME (For KX-HDV330/KX-HDV430)

Icon	Status		Meaning
	Color	Light pattern	
	Blue	Slow Flashing	On hold
	Blue	Quick Flashing	Incoming call
	Red	On	In use at another unit
	Red	Slow Flashing	On hold at another unit
	—	—	Registration error









### ② Line information

Information about the line (name, phone number) is displayed.





### ③ Missed call and voice message display














Information about missed calls and voice messages is displayed.

The number of new missed calls and voice messages is displayed in the red box.

Icon	Description	Note
	New missed calls, number displayed (active)	Tapping "active" icons displays a detailed information screen.
	New missed calls, number displayed (inactive)	
	No new missed calls (active)	
	No new missed calls (inactive)	
	New voice messages, number displayed (active)	
	New voice messages, number displayed (inactive)	
	No new voice messages (active)	
	No new voice messages (inactive)	

### ④ Line setting status and call status


Icon	Description	Note
	FWD set	No icon is displayed when the corresponding feature is disabled.
	DND set	
	Make anonymous calls	
	Block incoming anonymous calls	

Icon	Description	Note
	Presence(My Phone):Available	<b>[In standby mode]</b> Tapping an icon displays a settings screen where you can change the setting.
	Presence(My Phone):Away(blinking icon)	
	Presence(My Phone):Busy	
	Presence(My Phone):Offline/Invisible	
	Presence(My Phone):Invisible	
	ACD Available	
	ACD Unavailable	
	ACD Wrap Up (blinking icon)	
	ACD: Signed out	
	On a video call	—
	On a call with a Communication Camera	—
	Conference	—
	Conference hold	—

**5 Unregistered line**

If an "unregistered" error has occurred, "Registering" is displayed.

**6 Soft keys (display the names of available features)**

You can tap a soft key to perform the indicated feature. Which soft keys are displayed depends on the phone's state. Press "Next" to switch the row of displayed soft keys. In standby mode, pressing  **MENU** displays all of the soft keys that are currently not displayed.

Press  **MENU** or tap the "Back" soft key to return to the original display.

- Soft keys displayed in standby mode

Call	Phonebook	Call History	Function <sup>*1</sup>
Park <sup>*2</sup>	ACD <sup>*2</sup>	Call Center/Call Centre <sup>*2</sup>	My Phone <sup>*2</sup>
Presence <sup>*2</sup>	FWD/DND <sup>*2</sup>	Paging <sup>*2</sup>	Group Pickup <sup>*2</sup>
Basic Settings	System Settings	Advanced Settings	Application <sup>*2</sup>
Network Camera <sup>*3</sup>	Comm. Camera <sup>*3</sup>	Next	Back


<sup>\*1</sup> If a call is arriving at a BLF key, a red dot is displayed in the upper left.

<sup>\*2</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

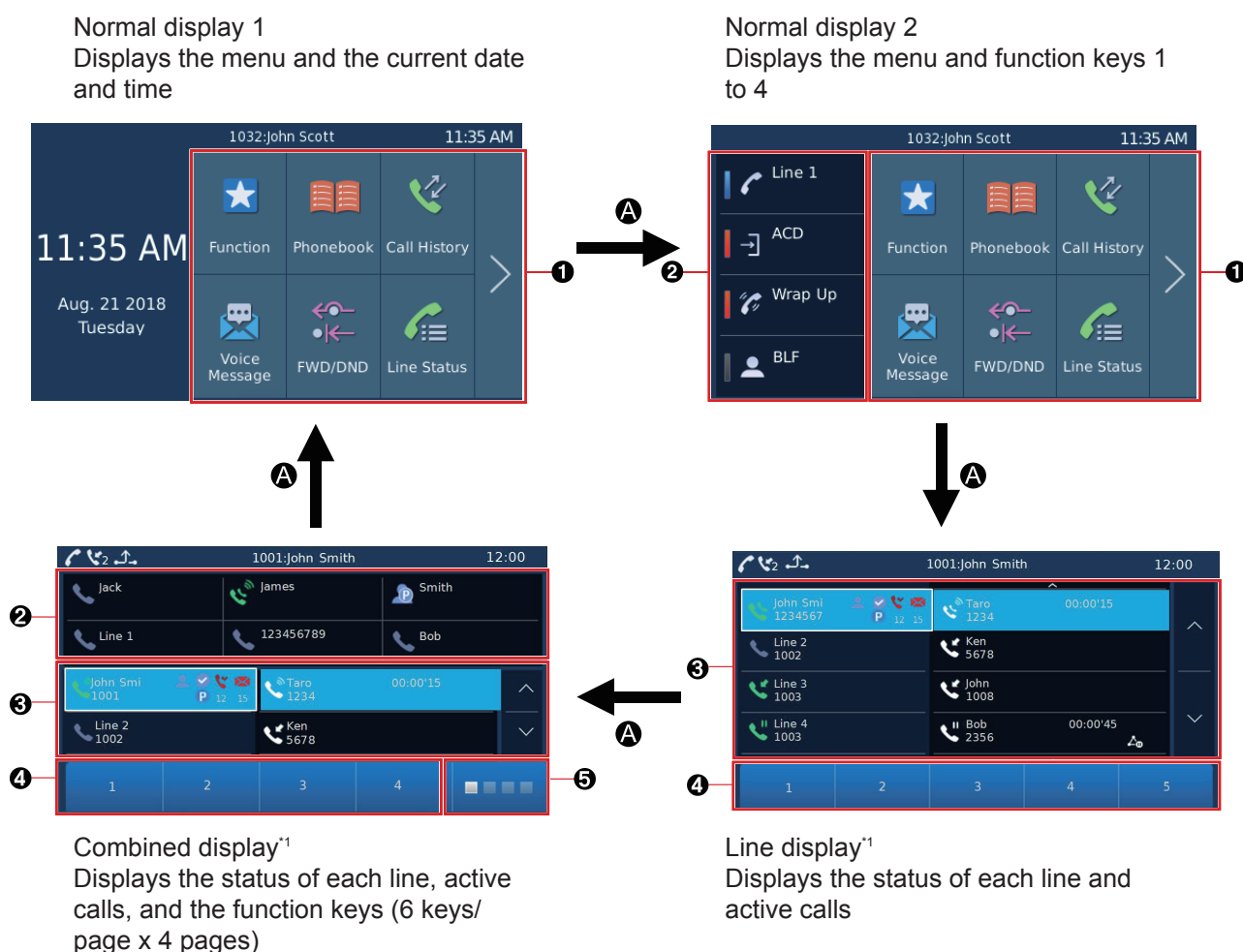
<sup>\*3</sup> KX-HDV430 only

## 2.4.6 Switching the Display by Pressing **HOME** (For KX-HDV340)

### Switching the display of the standby screen

While the phone is in standby mode, you can cycle through the available standby screens by pressing  **HOME**. The most recently displayed screen serves as the standby screen.


## 2.4.6 Switching the Display by Pressing HOME (For KX-HDV340)





\*1 This display may not be available depending on your country/area or the settings.


- ❶ Menu
- ❷ Function key display
- ❸ Line status display
- ❹ Soft keys (display the names of available features)
- ❺ Function key page switching and status display

Tapping cycles through the function key pages. This area also displays the status of each page in order from the left: page 1 (function keys 1–6), page 2 (function keys 7–12), page 3 (function keys 13–18), and page 4 (function keys 19–24).

 : Indicates the currently displayed page

 : Indicates pages that are not currently displayed


 : Indicates pages not currently displayed where there is a call arriving at a BLF key

**A** : Press  HOME.

### Note




- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in language and/or appearance.

## Switching the display of the incoming call, active call, and conference screens

While receiving a call, during a call, or during a conference, you can switch the display by pressing  HOME. The screen you switch to differs depending on the current standby display.



Pressing /HOME again returns you to the original display.

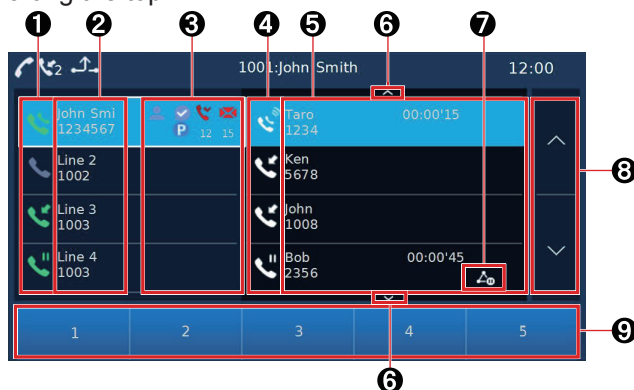
Current standby display	Display when you press  /HOME <sup>*1</sup>
Normal display 1	Line display Lines receiving a call or on a call are highlighted. (Lines with multiple incoming calls show the first call.)  is displayed on lines that are in a conference.
Normal display 2	
Line display	
Combined display	Combined display Lines receiving a call or on a call are highlighted. (Lines with multiple incoming calls show the first call.)  is displayed on lines that are in a conference.

\*1 See "Switching the display of the standby screen", page 47.

## Content of the Line Display Screen and the Combined Display Screen

You can confirm the status and information about each line. By tapping certain icons, you can view more detailed information or change settings. Also, you can execute functions or make settings by tapping the soft keys at the bottom of the display.

The figure below is an example of the line display. On the combined display, function keys are displayed along the top.








### Note




- The line display screen and combined display screen may not be available, depending on your country/area or the settings.
- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in language and/or appearance.

#### ① Line Icon

This icon indicates the line status ("On a call", "Incoming", "On hold", etc.).

Icon	Description
	Registration error
	Available line
	On a call
	Incoming call
	On hold

## 2.4.6 Switching the Display by Pressing HOME (For KX-HDV340)














Icon	Description
	In use or on hold at another unit
	DND set
	FWD set

### ② Line Name / Phone number

The line name and phone number are displayed.





### ③ Line Status Icon


This icon indicates the status of certain functions.  
You cannot tap this icon.

Icon	Description
	New voice messages
	New missed calls
	Parked Call
	Presence(My Phone): Available
	Presence(My Phone): Busy
	Presence(My Phone): Away (blinking icon)
	Presence(My Phone): Offline
	Presence(My Phone): Invisible
	ACD Available
	ACD Unavailable
	ACD Sign-in
	ACD Sign-out
	ACD Wrap Up

### ④ Call Icon

This icon indicates the status of an active call.

Icon	Description
	In Use
	Incoming call
	On hold
	In use at another unit

Icon	Description
	On hold at another unit

**5 Call Information**

Information (name, phone number, time) about active calls is displayed.




**6 Next Page Icon**

This icon is displayed if there are more than 5 active calls on the line display screen or if there are more than 3 active calls on the combined display screen.

You cannot tap this icon.

**7 Call Sub-Icon**


This icon indicates the status of conference.

Icon	Description
	Conference
	Conference hold
	On hold

**8 Scroll Icons**

You can scroll the list up or down by tapping these icons.

**9 Soft keys (display the names of available features)**

You can tap a soft key to perform the indicated feature. Which soft keys are displayed depends on the phone's state. Press "Next" to switch the row of displayed soft keys. In standby mode, pressing  MENU displays all of the soft keys that are currently not displayed.

Press  MENU or tap the "Back" soft key to return to the original display.

- Soft keys displayed in standby mode

New Call	Phonebook	Call History	Function <sup>*1</sup>
Park <sup>*2</sup>	Login/Logout <sup>*2</sup>	Available/Unavailable <sup>*2</sup>	Call Center/Call Centre <sup>*2</sup>
My Phone <sup>*2</sup>	Presence <sup>*2</sup>	FWD/DND <sup>*2</sup>	Paging <sup>*2</sup>
Group Pickup <sup>*2</sup>	Basic Settings	System Settings	Advanced Settings
Application <sup>*2</sup>	Next	Back	

<sup>\*1</sup> If a call is arriving at a BLF key, a red dot is displayed in the upper left.

<sup>\*2</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

## Giving Focus in the List on the Line Display Screen and the Combined Display Screen

Specific items in the line list and call list receive focus.

If there are active calls (on a call, incoming, or on hold), that call receives focus.

If there are several active calls, the priority of focus is as follows:

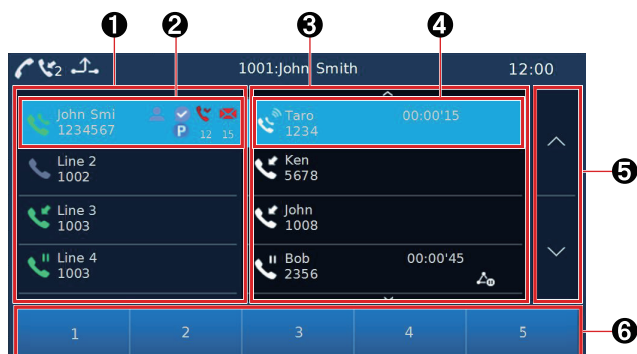
On a call > Incoming > On hold

The line that includes the call with focus receives focus.

If there is no active call on the line that has focus, only that line receives focus with a frame.

## 2.4.6 Switching the Display by Pressing HOME (For KX-HDV340)

(Example: line display)



①: Line list

②: Line with focus with a frame

③: Call list

④: Call with focus

⑤: Scroll icons

⑥: Soft keys


Soft keys that are relevant to the item that has focus with a frame are displayed.

### Note





- The name and phone number information of the item with focus with a frame can be displayed by scrolling.
- Tap a list item or the scroll icons to give focus as the list item with a frame.

## Tapping the List on the Line Display Screen and the Combined Display Screen

### Operation when tapping the line list

- Tap  (idle line): Go off-hook
- If you tap a line that does not have focus and has no active calls, the line you tapped receives focus with a frame, and that active call also receives focus.

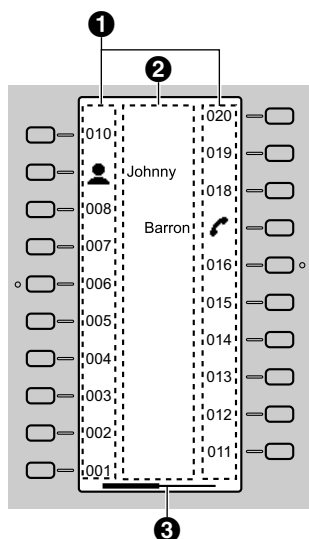
### Operation when tapping the call list

- Tap  (incoming call): Answer the call
- Tap  (on hold call): Retrieve the call
- Tap  (in use at another unit): Barge in on the call
- Tap  (on hold at another unit): Retrieve the on-hold call

## 2.4.7 KX-HDV20 Self-labeling LCD

### [Example]

KX-HDV20 (Optional model)\*\*







\*\* Up to 40 keys (20 keys × 2 pages) can be registered.

### ① Pictographs

Pictograph	Meaning	Pictograph	Meaning
(Number)	No function is assigned.	📖	Phonebook
☎	One Touch Dial	📞	Call History
	Line		
	Line Status		
👤	BLF	🔄	Simultaneous Ring
	Presence		ACD[Wrap Up]
			Directed Call Pickup
			Group Pickup
➡	ACD[Login]	📞	Call Forward
	Hoteling/Hospitality		Transfer
			Blind Transfer
🗨	Conference	📞	Park
			Park Retrieve
📹	Network Camera (KX-HDV430 only)	...	Application

### ② Function Label Name

### ③ Page Information

Indication	Meaning
	Displaying page 1
	Displaying page 1 with a call arriving at a BLF key on page 2
	Displaying page 2
	Displaying page 2 with a call arriving at a BLF key on page 1

### Note

- Images of the display in this manual are samples only. The actual screen on your phone may vary in color and/or appearance.

## 2.5 Main Menu

The following menu items are displayed in standby mode.

### **FWD/DND<sup>\*1</sup>**

Sets the Call Forwarding or Do Not Disturb features.  
See "3.6.1 Setting Call Forwarding and Do Not Disturb".

### **Function**

Displays the function keys.  
See "4.4.3 The Types of Function Keys".

### **Voice Message**

Used to access your voice mailbox.

### **Paging<sup>\*1</sup>**

Makes a Multicast Voice Paging call.  
See "3.1.3 Making a Multicast Voice Paging call".

### **Call History**

Used to display the call log.  
See "2.7.4 Using the Incoming/Outgoing Call Log".

### **Phonebook**

Used to access the Personal or Shared Phonebook.  
See "2.6 Phonebook".

### **Line Status**

Used to display the status of each line on the main LCD.  
See "3.8 Checking the Line Status".

### **Basic Settings**

Used to access the basic settings menu.  
See "4.8 Changing the Basic Setting".

### **System Settings**

Used to access the system settings menu.  
See "4.9 Changing the System Settings".

### **Advanced Settings**

Used to access the advanced settings menu.  
See "4.10 Changing the Advanced Settings".

### **Network Camera**

Used to access the Network Camera feature.  
See "3.10 Network Camera (KX-HDV430 only)".

### **Comm. Camera**

Used to access the Communication Camera feature.  
See "3.11 Communication Camera (KX-HDV430 only)".

### **Call Center/Call Centre<sup>\*1</sup>**

Used to access the Call Center feature.

### **Presence<sup>\*1</sup>**

Used to access the Presence feature.

### **Application<sup>\*1</sup>**

Used to access the Application feature.

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

## 2.6 Phonebook

The KX-HDV330 / KX-HDV340 / KX-HDV430 has 2 types of phonebook.

### 1. Personal Phonebook

This phonebook is stored in the telephone.

You can store up to 500 items (5 phone numbers per item, max. 2500 phone numbers) in the telephone along with names for easy access. You can also set unique ringer patterns for different categories to identify incoming calls.

All Phonebook items are stored in alphabetical order.

For security purposes, you can lock the Phonebook.

#### Note

- We recommend that backups are made of the phonebook data, in case the data becomes unrecoverable due to product malfunction.
- You can store information for a maximum of 500 contacts.
- Phonebook data can be imported and exported. Contact your administrator for further information. A name can have up to 24 characters. A telephone number can have up to 32 digits.

### 2. Shared Phonebook

If your telephone company provides a shared phonebook service, you can use it. For details, contact your phone system dealer/service provider.

You can refer to the shared phonebook in addition to the personal phonebook, if the shared phonebook is available.

#### Note

- We recommend setting this feature with your administrator. Contact your administrator for further information.

	Personal Phonebook	Shared Phonebook
Storing new items	✓	—
Editing stored items	✓	—
Deleting store items	✓	—
Searching the phonebook by name	✓	✓
Searching the phonebook by category	✓	—
Phone numbers for each item	Up to 5	Up to 5 <sup>*1</sup>
Private Ring <sup>*2</sup>	✓	—
Locking the phonebook	✓	—

<sup>\*1</sup> This number depends on the service being used.

<sup>\*2</sup> You can organize entries in the Phonebook into one of 9 Private Ring Categories. It is possible to set a different ringer pattern for each category.



## 2.7 Basic Operations



This section explains the basics of using the unit.

### 2.7.1 Going off- and on-hook

#### Going off-hook

In this manual, when you see the phrase "off-hook", you can do any of the following:

##### [In standby mode]




- Lift the corded handset off its cradle.
- Press /[SP-PHONE] while the corded handset is on its cradle.  
This enables hands-free mode.
- Press /[HEADSET] when using a headset.
- Tap the corresponding function key to select a line.\*1

\*1 When a function key is assigned as a Line key or Line Status key, this feature is available.

#### Going on-hook

In this manual, when you see the phrase "on-hook", you can do any of the following:

##### [During a conversation]

- Replace the corded handset on its cradle.
- Press /[SP-PHONE] when you are in hands-free mode.
- Press /[HEADSET] when using a headset.
- Press /[CANCEL].
- Tap "Off".\*1

\*1 For KX-HDV340 in the United States: Tap "End Call".

## 2.7.2 Adjusting the Volume

### Adjusting the Receiver/Speaker/Headset Volume

1. Press the **[+]** or **[-]** volume key to adjust the volume during a conversation.

**Note**

- Both receiver volume and headset volume are adjusted in training mode. See "3.4.9 Using Training Mode".

### Adjusting the Ringer Volume or Turning the Ringer Off

1. In standby mode, press the **[+]** or **[-]** volume key to adjust the ringer volume.
2. Tap "OK".

### Adjusting the Ringer Volume or Turning the Ringer Off while Ringing

While receiving a call, do the following to adjust the ringer volume or turn the ringer off.

**Note**

- If you attach a headset while receiving an incoming call, ringing will be heard from the speaker.

#### To adjust the ringer volume

1. Press the **[+]** or **[-]** volume key to adjust the ringer volume.

**Note**

- The adjusted volume level will also be used for subsequent calls.
- The volume can also be adjusted in the pop-up window.

#### To turn the ringer off

1. Tap .

## 2.7.3 Entering Characters





You can enter characters and digits using the dialing keys.  
You can select one of the character modes by tapping the desired character mode while entering a name.  
To change the character mode while editing a name in the phonebook, tap the desired character mode.  
For available characters, see "5.1 Character Mode Table".

Suffix: [none] / C	Suffix: NE / X / SX	Suffix: RU
<div>ABC (Latin)</div> <div>0-9 (Numeric)</div> <div>+RÄ (Extended 1)</div>	<div>ABC (Latin)</div> <div>0-9 (Numeric)</div> <div>ABΓ (Greek)</div> <div>ÄÄÄ (Extended 1)</div> <div>SŠŠ (Extended 2)</div>	<div>АБВ (Cyrillic)</div> <div>0-9 (Numeric)</div> <div>ABC (Latin)</div> <div>ÄÄÄ (Extended 1)</div> <div>SŠŠ (Extended 2)</div>

• **Example: To enter "Anne" in Latin Mode**





**[2] → [→] → [X] → [6] → [6] → [→] → [6] → [6] → [→] → [3] → [3]**

- To switch between uppercase and lowercase, press **[X]**.




- To enter a character located on the same dialing key as the previous character, move the cursor by tapping , then enter the desired character.
- If you enter a different character by mistake, tap  or  to highlight the character, tap  to delete it, then enter the correct character.
- To clear an entire line, tap "Delete".

## 2.7.4 Using the Incoming/Outgoing Call Log

### Displaying the Incoming Call Log





1. In standby mode, tap  or , and then select "Call History".
2. Tap  (Incoming Call Log).
3. Tap  (Missed Call Log).

### Displaying the Outgoing Call Log


1. In standby mode, tap  or , and then select "Call History".
2. Tap .

### Deleting Items in the Incoming/Outgoing Call Log

[When the Incoming or Outgoing Call Log is displayed]

1. Tap .
2. Tap  or , and then tap the check boxes of the items you want to delete.
3. Tap , and then tap "OK".

#### Note

- You can select all items in the list by tapping .

## 2.7.5 Bluetooth Headset





Before using a Bluetooth headset, you need to register it to the unit.

### Note

- During a conversation using a Bluetooth headset, the receiver volume can be adjusted using the volume key on either the headset or the main unit.
- The connection status can be viewed on the status bar.
- Signals are transmitted between the unit and the Bluetooth headset using radio waves. For maximum distance and noise free operation, it is recommended that the unit be situated away from electrical appliances such as faxes, radios, personal computers, and microwaves.
- Privacy of communications may not be ensured when using the unit.





### Registering a Bluetooth headset

Set the headset to pairing mode by following the instructions in the headset's documentation.





1. Tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Bluetooth Headset".
3. Tap "Add New Device".
4. Enter the PIN, and then tap "OK".<sup>\*1</sup>

<sup>\*1</sup> For more information regarding the PIN, see the documentation for your headset.





### Deregistering a Bluetooth headset

1. Tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Bluetooth Headset".
3. Tap "Registration", and then tap "Yes".

### Connecting a Bluetooth headset

1. Tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Bluetooth Headset".
3. Tap "Connection", and then tap "On".
4. Tap "OK".

### Disconnecting a Bluetooth headset

1. Tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Bluetooth Headset".
3. Tap "Connection", and then tap "Off".
4. Tap "OK".

---


## **Section 3**

# ***Feature Operations***

*This section shows you step by step how to use each feature.*

# 3.1 Making Calls

This section explains the basic methods for making a call.

- You can confirm that the number was dialed correctly before calling (Predialing) by entering the number, then going off-hook.
- To cancel dialing, press  **CANCEL**.
- To insert a 3 second pause between phone numbers, tap "Pause".<sup>\*1</sup>  
It is useful when you want to operate voice mail service without listening to pre-recorded announcement, for example. Repeat as needed to create longer pauses.
- The "+" symbol (international dialing code) can be entered by pressing and holding the **#** key.
- You can select whether to make a voice call or a video call. If you make a call by going off-hook, the type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).


<sup>\*1</sup> This icon is displayed only when configured on the telephone. Contact your administrator for further information.

## 3.1.1 Basic Calling

### Calling by Dialing

1. In standby mode, go off-hook.
2. Dial the outside party's number.
3. Do one of the following:
  - a. Tap "Voice Call" to make a voice call.
  - b. Tap "Video Call" to make a video call (KX-HDV430 only).
4. Go on-hook to end the call.

#### Note

- You can use a specific line by pressing a function key assigned to a line (see "4.4.3 The Types of Function Keys") or by using the Line Status screen (see "3.8 Checking the Line Status").
- To dial a new number without going on-hook, follow the procedure below.
  1. During a conversation, press  **MENU**.
  2. Tap "Flash/Recall".

### Predialing

In standby mode, you can start dialing while still on-hook. After dialing the number, go off-hook to begin the call.

1. In standby mode, dial while still on-hook.
2. Do one of the following:
  - a. Go off-hook.<sup>\*1</sup>
  - b. Tap "Voice Call" to make a voice call.
  - c. Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

## 3.1.2 Easy Dialing

### Using the redial list

The last phone number dialed is stored in the redial list.

1. In standby mode, press / / **REDIAL**.

2. Go off-hook.<sup>\*1</sup>

<sup>\*1</sup> When you do not go off-hook at this step, it will be a call using the speakerphone.

#### Note

- The type of call (voice or video) is the same as the previous outgoing call (KX-HDV430 only).
- If this procedure is performed during a conversation, the conversation will end, and then redialing is performed.

### Hot Key Dialing

You can assign a phone number to each number key and then access the desired phone number by simply pressing and holding the assigned number key. (See "4.3 Using Hot Keys".)

1. Press and hold the dialing key (0–9) assigned as a Hot Key for more than 1 second.

2. Do one of the following:

a. Go off-hook.<sup>\*1</sup>

b. Tap "Phone Number".



Do one of the following:

– Tap "Voice Call" to make a voice call.

– Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

#### Note

- While the Hot Key's information is displayed, you can tap  or  to select another Hot Key number.
- If Hot Key dialing is set to "Auto", a Hot Key number can also be dialed by pressing and holding the assigned dialing key for a specified number of seconds.

### Using the Hot Line

If your administrator has configured this function, you can make a call to a registered phone number automatically. Contact your administrator for further information.

1. In standby mode, go off-hook.

### Using the Incoming/Outgoing Call Log


#### Using the Incoming Call Log

1. In standby mode, tap  or , and then select "Call History".

2. Do one of the following:

a. Tap  (Incoming Call Log).

b. Tap  (Missed Call Log).

3. Tap  or , and then select an incoming call log.

4. Do one of the following:






### 3.1.2 Easy Dialing

---

- a. Go off-hook.<sup>\*1</sup>
- b. Do one of the following:
  - Tap "Voice Call" to make a voice call.
  - Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).






#### Using the Outgoing Call Log

1. In standby mode, tap  or , and then select "Call History".
2. Tap .
3. Tap  or , and then select an outgoing call log.
4. Do one of the following:
  - a. Go off-hook.<sup>\*1</sup>
  - b. Do one of the following:
    - Tap "Voice Call" to make a voice call.
    - Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

### Using the Phonebook

#### Using the Personal Phonebook







1. In standby mode, tap  or , and then select "Phonebook".
2. Tap .
3. Enter the name or the first character(s) of the desired name, and then tap "OK".
4. Tap  or , and then select the desired item.
5. Select the desired phone number.
6. Do one of the following:
  - a. Go off-hook.<sup>\*1</sup>
  - b. Tap "Phone Number".  
Do one of the following:
    - Tap "Voice Call" to make a voice call.
    - Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

#### Note

- If the Personal Phonebook is not permitted, this feature cannot be used. Contact your administrator for further information.

#### Using the Shared Phonebook

1. In standby mode, tap  or , and then select "Phonebook".
2. If "Phonebook" is displayed as the title, tap .<sup>\*1</sup>
3. Tap .
4. Enter the name or the first character(s) of the desired name, and then tap "OK".
5. Tap  or , and then select the desired item.



6. Select the desired phone number.
7. Do one of the following:
  - a. Go off-hook.<sup>\*2</sup>
  - b. Tap "Phone Number".  
Do one of the following:
    - Tap "Voice Call" to make a voice call.
    - Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> If only Shared Phonebook is permitted, this step is skipped.



<sup>\*2</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

### Note

- If the Shared Phonebook is not permitted, this feature cannot be used. Contact your administrator for further information.

## 3.1.3 Making a Multicast Voice Paging call

When you make a paging call, the voice will be heard through the speaker phone of the other telephones.



1. In standby mode, tap  or , and then select "Paging".<sup>\*1</sup>
2. Select a desired channel group.<sup>\*2</sup>
3. Go off-hook, or tap "Call".

<sup>\*1</sup> Paging is available only when the feature is enabled. Contact your administrator for further information.

<sup>\*2</sup> If there is only 1 channel group, paging will start immediately.

# 3.2 Receiving Calls

This section explains the basic methods for receiving a call.

- You can select the ringer for each type of incoming call.
- You can also use Auto Answer to answer a call.
- In standby mode, press  /  / **MUTE/AUTO ANS** to toggle Auto Answer on or off.
- The volume of the ringer can be adjusted, or turned off. (See "2.7.2 Adjusting the Volume".)
- If an outside call is received from a phone number stored in the Phonebook, the number and name of the caller will be displayed in the call log.
- If you attach a headset while receiving an incoming call, ringing will be heard from the speaker. Depending on the headset, ringing may be heard through the headset.
- Up to 24 calls can be received at the same time. The 25th caller will hear a busy tone.
- If you receive an incoming video call, you can select whether to receive that call as a video call. If you go off-hook, the type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

## 3.2.1 Answering Calls

### To answer an incoming call

1. Do one of the following:
  - a. Go off-hook.<sup>\*1</sup>
  - b. Tap "Voice Call"<sup>\*2</sup> to make a voice call.
  - c. Tap "Video Call" to make a video call (KX-HDV430 only).<sup>\*3</sup>

<sup>\*1</sup> When the handset is already off-hook, press and release the hook switch. The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

<sup>\*2</sup> KX-HDV340: Tap "Answer".

<sup>\*3</sup> When a voice call is made by the other party, the video feed of the party will not be displayed.

#### Note

- When a call is received while another call is on hold, pressing and releasing the hook switch will answer the call.



### To answer an incoming call on a specific line

1. Press the corresponding function key.

#### Note

- When a function key is assigned as a Line key or Line Status key, this feature is available.
- Line keys with incoming calls will be flashing blue rapidly.

### To answer an incoming call when receiving multiple incoming calls

1. Tap "Line".
2. Tap  or , and then select an incoming call.
3. Go off-hook.

#### To reject an incoming call

1. While receiving an incoming call, tap "Reject".  
The call will be rejected, and the telephone will return to standby mode.



#### Note

- Calls from specific numbers can be automatically rejected. For details, see "4.6 Barring Incoming Calls (Caller ID<sup>†</sup> service users only)".

## 3.3 Using Hands-free Mode


In hands-free mode, you can talk and hear the other party in a conversation without using the handset. This mode is useful for performing other tasks during a conversation, such as writing.

### Enabling hands-free mode

- If you press /[SP-PHONE] in standby mode, you can enable hands-free mode.
- During a conversation using a headset, you can enable hands-free mode by pressing /[SP-PHONE].

### Canceling hands-free mode

You can cancel hands-free mode in one of the following ways:

- During a conversation in hands-free mode, go off-hook.
- While you are talking in hands-free mode and a headset is attached to the unit, press /[HEADSET] to continue the conversation using the headset.

## 3.4 During a Conversation


### 3.4.1 Transferring a Call (Call Transfer)

You can transfer a call to another destination (extension or outside party).

#### Note

- Operation for this feature may differ depending on the telephone's configuration. If the following procedure does not work, contact your administrator for further information.

#### To transfer

1. Press  **TRANSFER** during a conversation.
2. Dial the party you want to transfer to.<sup>\*1</sup>
3. Do one of the following:
  - a. Tap "Voice Call" to make a voice call.
  - b. Tap "Video Call" to make a video call (KX-HDV430 only).
4. Do one of the following:
  - a. Confirmation Transfer: Wait until the other party answers and then go on-hook.
  - b. Automatic Transfer: Go on-hook before the other party answers.

<sup>\*1</sup> You can also select a phone number from the call history or the phonebook.

#### Note

- To return to the call before the transfer destination answers, press  **CANCEL**.

#### To do a blind transfer

1. Tap "Blind"<sup>\*1</sup> during a conversation.
2. Dial the party you want to transfer to.<sup>\*2</sup>
3. Do one of the following:
  - a. Tap "Voice Call" to make a voice call.
  - b. Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> If blind transfers are not permitted, this icon is not displayed. Contact your administrator for further information.

<sup>\*2</sup> You can also select a phone number from the call history or the phonebook.


### 3.4.2 Holding a Call

You can put a call on hold by holding the call at your extension.

#### Note

- Operation for this feature may differ depending on the telephone's configuration. If the following procedure does not work, contact your administrator for further information.

#### To hold the current call

1. Press  **HOLD**.

### 3.4.3 Holding in a System Parking Zone (Call Park)

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#### Note

- When a function key is assigned as a Line key, if you press a Line key other than the one for the current call, the call is put on hold or is disconnected depending on the Automatic Call Hold settings. For details, contact your phone system dealer/service provider.

#### To retrieve a call on hold at your line

1. Press / / **HOLD**.
2. When two or more lines are on hold, tap or , and then select a line on hold.

#### Note

- When a call is received while another call is on hold, pressing and releasing the hook switch will answer the call.
- If a function key is assigned as a Line key, and a call is on hold on that line, you can retrieve the call on hold by following the step below.
  1. Press the corresponding function key.

### 3.4.3 Holding in a System Parking Zone (Call Park)

You can use this feature as a transferring feature.

When Call Park is permitted, the "Park" icon is displayed. However, the Call Park feature number must be set beforehand. Also, depending on your phone system, you may need to enter a parking zone number to retrieve a parked call. The feature depends on your phone system. Contact your administrator for further information.

#### To set

1. Press / **MENU** during a conversation.
2. Tap "Park" or press an unused (LED is off) function key to which the Call Park function is assigned.
3. Go on-hook.

#### To retrieve (Call Park Retrieve)

1. In standby mode, enter the Call Park Retrieve feature number or press a function key in use (blue LED is slowly flashing, or red LED is slowly flashing) to which the Call Park function is assigned.
2. Go off-hook.

#### Note




- Depending on the telephone system, may be displayed in the status bar. In this case, you can retrieve the call by pressing / **MENU** and then tapping "Park". However, to retrieve a parked call using the icon, the Call Park Retrieve feature number must be set beforehand. Contact your administrator for further information.

### 3.4.4 Talking to Two Parties Alternately (Call Splitting)

When talking to one party while the other party is on hold, you can swap the calls back and forth (alternately).

#### To alternate between the parties leaving one party on hold temporarily

1. Press / / **HOLD** during a conversation.

2. Dial the other party's extension number.
3. Do one of the following:
  - a. Tap "Voice Call" to make a voice call.
  - b. Tap "Video Call" to make a video call (KX-HDV430 only).
4. Talk to the other party.
5. Do one of the following:
  - a. During a voice call: Tap "Line Status".
  - b. During a video call: Press  **MENU**, and then tap "Line Status" (KX-HDV430 only).
6. Tap  or , and then select the original party.
7. Talk to the original party.

### 3.4.5 Making a Three-party Conference

During a conversation, you can add an additional party to your call and establish a conference call.

#### Note

- Your phone system may support advanced conference features, such as conference calls with four or more parties. In this case, the procedures for handling a conference call may be different from those explained in this section. For details, contact your phone system dealer/service provider.

### Making a Conference Call


1. Press  $\Delta$ /**CONF** during a conversation.
2. Dial the party you want to add to the conversation.<sup>\*1</sup>
3. Do one of the following:
  - a. Tap "Voice Call" to make a voice call.
  - b. Tap "Video Call" to make a video call (KX-HDV430 only).
4. Press  $\Delta$ /**CONF** after the other party has answered.  
 If you made a voice call to the other party, a voice conference call will be established.  
 If you made a video call to the other party, a video conference call will be established (KX-HDV430 only).

<sup>\*1</sup> You can also select a phone number from the call history or the phonebook.

#### Note

- If you add a party to a video conference call whose phone does not support video calls, that party will participate with only voice communication. An icon will be displayed instead of a video feed for that party (KX-HDV430 only).

### Switching from a Video Conference Call to a Voice Conference Call (KX-HDV430 only)

1. During a video conference call, press  **MENU**.
2. Tap "Voice Call".

## Switching from a Voice Conference Call to a Video Conference Call (KX-HDV430 only)

1. During a voice conference call, tap "Video Call".

## Removing a Party from the Conference

During a conference, you can remove other parties from the conference. However, this operation is available only during conference calls you initiate.

1. During a conference call, press / / **HOLD**.
2. Press / / **HOLD** again to show the conference parties on hold.
3. Tap or , and select the party to remove.
4. Talk to the party and go on-hook to end the call.
5. Press / / **HOLD**.

## Ending a Conference Call

To end the conference call, go on-hook.

## 3.4.6 Muting the Microphone or the Handset

You can disable the microphone or the handset to consult privately with others in the room while listening to the other party on the phone through the speaker or the handset.

### To set/cancel

1. Press / / **MUTE/AUTO ANS**.

#### Note

- When the icon is displayed in the status bar, Mute is on.
- During Mute, even if you switch from/to speakerphone, Mute will continue.
- During Mute, even if you connect/disconnect a headset, Mute will continue.

## 3.4.7 Using Call Waiting

During a conversation, if a second call arrives, you will hear a call waiting tone. You can answer the second call by disconnecting or holding the current call. This is an optional telephone company service. You can receive a call waiting tone and the caller's information. For details, contact your phone system dealer/service provider.

#### Note for KX-HDV330/KX-HDV430

- If the call waiting screen is displayed, you can switch to the line display or combined display by pressing / **HOME** or by waiting 10 seconds. You can return to the original screen again by pressing / **HOME**.

### To disconnect the current call and then talk to the new party

1. Go on-hook.
2. Go off-hook.



### To hold the current call and then talk to the new party

1. Do one of the following:
  - a. Tap "Voice Call" to make a voice call.
  - b. Tap "Video Call" to make a video call (KX-HDV430 only).
  - c. Tap "Camera" to make a video call (KX-HDV430 only).

## 3.4.8 Using Off-hook Monitor

During a two-party conversation with the corded handset, you can allow other people to listen to the conversation through the speaker while you continue the conversation using the corded handset.

### To start/To cancel

1. Press /[SP-PHONE] during a conversation.


#### Note

- When off-hook monitor is active, replacing the corded handset to its cradle enables hands-free mode.

## 3.4.9 Using Training Mode

In training mode, you can hear the other party in a conversation from both a headset and the handset. This mode is useful for training an operator. While the operator talks to the other party on the headset, a trainer also can listen to the other party on the handset and teach the operator how to respond to the caller.

### Starting training mode

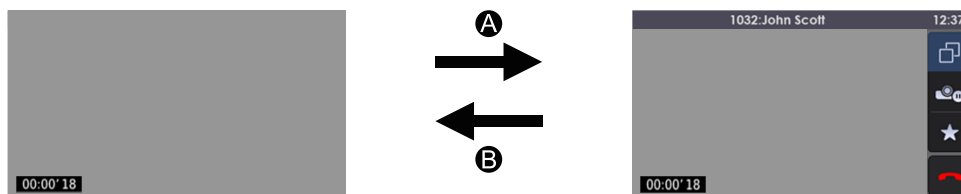
1. During a conversation using a headset, go off-hook by lifting the handset off its cradle.
2. Press /[HEADSET] to start training mode.

### Ending training mode

1. Replace the handset on its cradle.  
The conversation will continue using the headset.

## 3.5 Making a Video Call (KX-HDV430 only)

### 3.5.1 Video Call Screen



**A** : Tap the screen.


**B** : After a certain amount of time.

Normally, the video feed is displayed in full screen. If you tap the screen, the status bar and operation area are displayed. After a certain amount of time, the display returns to full screen. (Tap the screen again to show the status bar and operation area.)

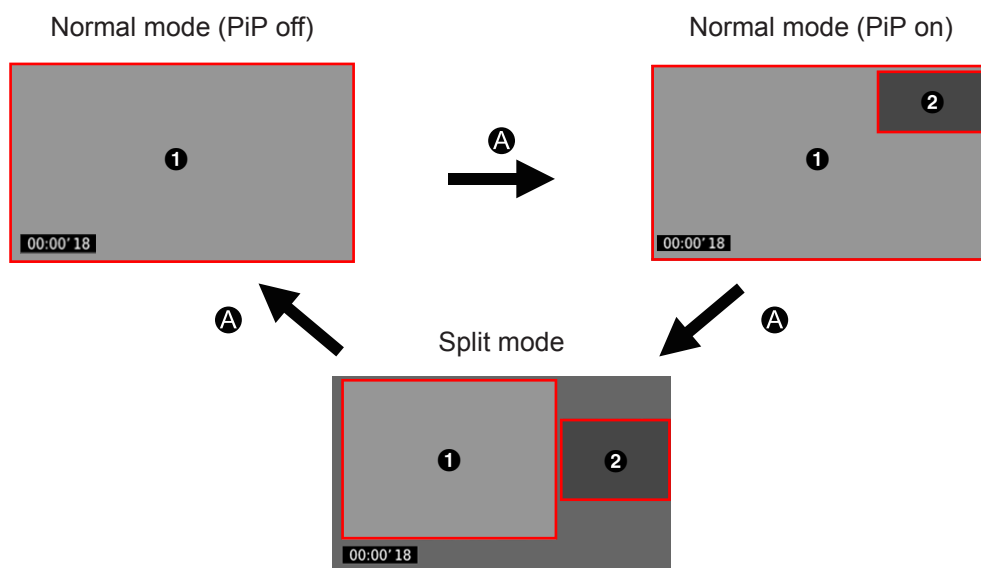
## 3.5.2 Video Call Options


During a video call, you can switch the screen mode and pause/resume sending your video feed.

### Switching the screen mode

1. During a video call, tap the screen.
2. Tap  .  
The screen mode cycles through normal mode (PiP off) → normal mode (PiP on) → split mode.

[Example]




**A** : Tap the screen, and then tap  .

- ① The other party's video feed
- ② Your video feed



In normal mode, you can toggle the display of your video feed (Picture-in-Picture).

### Turning PiP on and off


1. During a video call, press  **MENU** .
2. Tap "PiP".
3. Tap "On" or "Off", and then tap "OK".

## 3.5.3 Pausing and resuming sending your video feed

### To pause sending your video feed

1. While sending your video feed, tap the screen.
2. Tap  .  
 is displayed on your video feed, and sending of your video feed is stopped.

#### To resume sending your video feed


1. While your video feed is paused, tap the screen.
2. Tap .  
Your feed will be displayed, and sending of your feed will resume.

## 3.5.4 Switching the call type during a conversation

#### To switch from a voice call to a video call

1. During a voice call, tap "Video Call".









#### To switch from a video call to a voice call

1. During a video call, press / MENU.
2. Tap "Voice Call".




## 3.5.5 Adjusting the Quality of the Picture

You can adjust the quality of your video feed in standby mode or during a video call.

#### To adjust in standby mode

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Video Options".
3. Tap  or , and then select "Camera Settings".
4. Tap the item you want to adjust.
5. Tap  or , and then change the value of the item, and then tap "OK".
6. Tap "Save".

#### To adjust during a video call

1. During a video call, press / MENU.
2. Tap "Picture Quality".
3. Tap the item you want to adjust.
4. Tap  or , and then change the value of the item, and then tap "OK".
5. Tap "Save".

#### Note

- You can adjust the following values:





Brightness	Default : 3
Saturation	Default : 3
Contrast	Default : 2
Sharpness	Default : 3
Anti-flicker	Default : 50Hz

- You can reset the values to their defaults by tapping "Reset".

## 3.6 Before Leaving Your Desk

### 3.6.1 Setting Call Forwarding and Do Not Disturb

You can have incoming calls automatically forwarded to another destination. You can also have incoming calls rejected (Do Not Disturb).





1. In standby mode, tap  or , and then select "FWD/DND".
2. If the unit has multiple lines, tap  or  to select the desired line.
3. Select the type of "FWD" or "DND" setting to apply.  
The settings are as follows.
  - "DND"  
(All incoming calls are automatically rejected.)
  - "Fwd(All)"  
(All incoming calls are forwarded.)
  - "Fwd(Busy)"  
(Incoming calls are forwarded only when your extension is in use.)
  - "Fwd(NA)"  
(An incoming call is forwarded if you do not answer the call within a certain amount of time.)
4. To set "DND"
  - a. Select "On" or "Off".
  - b. Tap "OK".
5. To set "Fwd(All)" or "Fwd(Busy)"
  - a. Tap "On/Off", and then select "On" or "Off".
  - b. Tap "OK" <sup>\*1</sup> or "Next". <sup>\*2</sup>
  - c. Set forward phone number. <sup>\*3</sup>
  - d. Tap "OK".
6. To set "Fwd(NA)"
  - a. Tap "On/Off" to select "On" or "Off".
  - b. Tap "OK" <sup>\*1</sup> or "Next". <sup>\*2</sup>
  - c. Set forward phone number. <sup>\*3</sup>
  - d. Tap "OK".
  - e. Tap "Ring Count" to specify the number of rings before the call is forwarded.
  - f. Tap "OK".

<sup>\*1</sup> When you tap "OK", the subsequent operations can be omitted.

<sup>\*2</sup> When a phone number is already set or you select "Off", "Next" is not displayed.

<sup>\*3</sup> You can also set a phone number by tapping "Phone Number" at step a.









#### Note

- When Call Forwarding and/or Do Not Disturb is enabled,  /  and/or  /  appears in the status bar in standby mode.
- This feature is only available when enabled. Contact your administrator for further information.

# 3.7 Using the Phonebook

## 3.7.1 Storing an Item in the Personal Phonebook

### Storing a New Item

1. In standby mode, tap  or  , and then select "Phonebook".
2. Tap  .  
The number of remaining entries is displayed.
3. Tap "<Enter Name>".
  - a. Enter a name (max. 24 characters).
  - b. Tap "OK".
4. Tap "<Enter Phone No>".
  - a. Enter the phone number (max. 32 digits).
  - b. Tap "OK".Repeat this step to add additional phone number types.
5. Tap "Category Off".<sup>\*1</sup>
  - a. Tap  or  , and then select a category.
  - b. Tap "OK".
6. Tap  of the phone number you want to use as the entry's default number.<sup>\*2</sup>  
The color of the icon for the selected item changes to  .
7. Tap  .

<sup>\*1</sup> This step can be omitted if you do not want to assign a category.

<sup>\*2</sup> This step can be omitted if you do not want to assign a default number. (The first number entered for an entry will automatically be assigned as the default number.)

### Note






- The valid digits are "0" through "9", "✖", "##", "+", "P".
- To enter characters, see "2.7.3 Entering Characters".

### Storing an Item Using the Dialing

You can dial a number first and then add it as a phonebook entry.

#### To add a new entry using the dialing

1. In standby mode, dial a number.
2. Tap "Phonebook".
3. Tap "Create New Item", and then tap "OK".  
The number of remaining entries is displayed.
4. Tap "<Enter Name>".
  - a. Enter a name (max. 24 characters).
  - b. Tap "OK".
5. Tap "Category Off".<sup>\*1</sup>

- a. Tap  or , and then select a category.
- b. Tap "OK".
6. Tap  of the phone number you want to use as the entry's default number.<sup>2</sup>  
The color of the icon for the selected item changes to .
7. Tap .







<sup>1</sup> This step can be omitted if you do not want to assign a category.

<sup>2</sup> This step can be omitted if you do not want to assign a default number. (The first number entered for an entry will automatically be assigned as the default number.)

### Note

- The valid digits are "0" through "9", "✖", "##", "+", "P".
- To enter characters, see "2.7.3 Entering Characters".

### To add the phone number to an existing entry using the dialing

1. In standby mode, dial a number.
2. Tap "Phonebook".
3. Tap "Add Number", and then tap "OK".
4. Tap .
5. Enter the name or the first character(s) of the desired name.
6. Tap "OK".
7. Tap  or , and then select the desired name.
8. Tap  of the phone number you want to use as the entry's default number.<sup>1</sup>  
The color of the icon for the selected item changes to .
9. Tap .

<sup>1</sup> This step can be omitted if you do not want to assign a default number. (The first number entered for an entry will automatically be assigned as the default number.)



### Note






- The valid digits are "0" through "9", "✖", "##", "+", "P".
- To enter characters, see "2.7.3 Entering Characters".

## Storing an Item Using the Incoming or Outgoing Call Log

You can add a number listed in the Incoming or Outgoing Call Log to the Personal Phonebook.

### To add a new entry

1. In standby mode, display the Incoming or Outgoing Call Log.
2. Tap  or , and then select the desired item.
3. Tap "Save Phonebook".
4. Tap "Create New Item", and then tap "OK".  
The number of remaining entries is displayed.
5. Tap "<Enter Name>".
  - a. Enter a name (max. 24 characters).

- b. Tap "OK".
6. Tap "Category Off".<sup>\*1</sup>
  - a. Tap  or  , and then select a category.
  - b. Tap "OK".
7. Tap  of the phone number you want to use as the entry's default number.<sup>\*2</sup>  
The color of the icon for the selected item changes to .
8. Tap .









<sup>\*1</sup> This step can be omitted if you do not want to assign a category.

<sup>\*2</sup> This step can be omitted if you do not want to assign a default number. (The first number entered for an entry will automatically be assigned as the default number.)

#### Note

- The valid digits are "0" through "9", "✖", "##", "+", "P".
- To enter characters, see "2.7.3 Entering Characters".

#### To add the phone number to an existing entry

1. In standby mode, display the Incoming or Outgoing Call Log.
2. Tap  or  , and then select the desired item.
3. Tap "Save Phonebook".
4. Tap "Add Number", and then tap "OK".
5. Tap .
6. Enter the name or the first character(s) of the desired name, and then tap "OK".
7. Tap  or  , and then select the desired name.
8. Tap  of the phone number you want to use as the entry's default number.<sup>\*1</sup>  
The color of the icon for the selected item changes to .
9. Tap .







<sup>\*1</sup> This step can be omitted if you do not want to assign a default number. (The first number entered for an entry will automatically be assigned as the default number.)

#### Note


- The valid digits are "0" through "9", "✖", "##", "+", "P".
- To enter characters, see "2.7.3 Entering Characters".

## 3.7.2 Editing a stored item in the Personal Phonebook

### Editing a Stored Item






1. In standby mode, tap  or  , and then select "Phonebook".
2. Tap .
3. Enter the name or the first character(s) of the desired name, and then tap "OK".
4. Tap  or  , and then select the desired name.
5. Tap  .<sup>\*1</sup>



6. Tap the desired name, phone number, category or default telephone number.
7. Edit the data as necessary.
8. Repeat steps 5 to 7 and edit the items you want to change.
9. Tap .









<sup>\*1</sup> If this icon is not displayed, you are currently viewing the Shared Phonebook. You must be viewing the Personal Phonebook to edit items. Contact your administrator for further information.

### Note

- To change a character or digit, tap  or  to highlight it, tap  to delete it, and then enter the new character or digit.
- To clear an entire line, tap "Delete".
- To move the cursor to the left or right, tap  or  respectively.
- To enter characters, see "2.7.3 Entering Characters".

## Editing Category Names










You can edit the names of the categories in the phonebook.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Display Option".
3. Tap  or , and then select "Category Name".
4. Tap  or , and then select the desired category number (1–9).
5. Enter a name for the category (max. 13 characters), and then tap "OK".
6. Repeat steps 4 and 5 for each category name to edit.


### Note

- To enter characters, see "2.7.3 Entering Characters".

## 3.7.3 Deleting a Stored Item in the Personal Phonebook

1. In standby mode, tap  or , and then select "Phonebook".
2. Tap .
3. Enter the name or the first character(s) of the desired name, and then tap "OK".
4. Tap  or , and then select the desired name.
5. Tap . <sup>\*1</sup>
6. Tap  or , and then tap the check boxes of the items you want to delete. <sup>\*2</sup>
7. Tap , and then tap "OK".

<sup>\*1</sup> If this icon is not displayed, you are currently viewing the Shared Phonebook. You must be viewing the Personal Phonebook to edit items. Contact your administrator for further information.

<sup>\*2</sup> You can select all items in the list by tapping .






## 3.7.4 Searching for an Item in the Personal Phonebook

### Searching by Name

You can also search for an item in the phonebook by entering a name.

### 3.7.4 Searching for an Item in the Personal Phonebook

---

1. In standby mode, tap  or , and then select "Phonebook".
2. Tap .
3. Enter the name or the first character(s) of the desired name, and then tap "OK".
4. Tap  or , and then select the desired name.
5. Select the desired phone number.
6. To make a call, do one of the following:
  - a. Go off-hook.<sup>\*1</sup>
  - b. Tap "Voice Call" to make a voice call.
  - c. Tap "Video Call" to make a video call (KX-HDV430 only).









<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

#### Note

- To enter characters, see "2.7.3 Entering Characters".

### Searching by Category

If items in the phonebook have been assigned categories, you can search by category.

1. In standby mode, tap  or , and then select "Phonebook".
2. Tap .
3. Tap  or , and then select a category.
4. Tap "OK".
5. Tap .
6. Enter the name or the first character(s) of the desired name, and then tap "OK".
7. Tap  or , and then select the desired name.
8. Select the desired phone number.
9. To make a call, do one of the following:
  - a. Go off-hook.<sup>\*1</sup>
  - b. Tap "Voice Call" to make a voice call.
  - c. Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).

#### Note

- To enter characters, see "2.7.3 Entering Characters".

### Searching by pressing Dial Keys

You can also search for an item in the phonebook by pressing multiple dial keys when the phonebook list is displayed.

1. When the phonebook is displayed, press the dial keys to enter the first character(s) of the desired name in accordance with the character tables.
2. Select the desired name.

Character table

Suffix	NE / X / SX / C / (none)	NE / X / SX	RU
Keys	ABC (Latin)	ABΓ (Greek)	AБB (Cyrillic)
<b>1</b>	† → * → 1	† → * → 1	A → Б → В → † → * → 1
<b>2</b>	A → B → C → 2	A → B → Γ → 2	Г → Д → Е → Ё → A → B → C → 2
<b>3</b>	D → E → F → 3	Δ → E → Z → 3	Ж → 3 → И → Ы → 3 → D → E → F → 3
<b>4</b>	G → H → I → 4	H → Θ → I → 4	К → Л → М → 4 → G → H → I → 4
<b>5</b>	J → K → L → 5	K → Λ → M → 5	Н → О → П → 5 → J → K → L → 5
<b>6</b>	M → N → O → 6	N → Ξ → O → 6	Р → С → Т → 6 → М → N → O → 6
<b>7</b>	P → Q → R → S → 7	Π → P → Σ → 7	У → Ф → X → 7 → P → Q → R → S → 7
<b>8</b>	T → U → V → 8	T → Υ → Φ → 8	Ц → Ч → Ш → 8 → T → U → V → 8
<b>9</b>	W → X → Y → Z → 9	X → Ψ → Ω → 9	Щ → Ъ → Ь → Ь → 9 → W → X → Y → Z → 9
<b>0</b>	0 → Space	0 → Space	Э → Ю → Я → 0 → Space

- Pressing a key repeatedly will cycle through the characters associated with that key. For example, to enter the letter "C" in Latin Mode, press **2** 3 times.
- The illustrations of the keys in the table may differ in appearance from the actual keys on the telephone.

#### Example: To enter "ANNE" in Latin Mode

**2** → **6** → **6** → **→** → **6** → **6** → **3** → **3**

#### Note

- Availability depends on your phone system. Contact your administrator for further information.

## 3.7.5 Locking/Unlocking the Phonebook

You can lock/unlock the phonebook while in standby mode.

If no password has been set, you cannot lock the phonebook.

For details about setting the password, see "4.2 Setting the Password".

#### Note

- If you lock either the Personal Phonebook or the Shared Phonebook, the other one is also locked. If you unlock the phonebook, both phonebooks are unlocked.

### Locking the Phonebook

- In standby mode, tap **▶** or **◀**, and select "Phonebook".
- Press **≡**/ **MENU**.
- Tap "Lock Phonebook", and then tap "OK".<sup>1</sup>

<sup>1</sup> The call log is also locked.


If the password is not set, an error tone sounds and the error message "Password Not Stored" is displayed.

### Unlocking the Phonebook

- In standby mode, tap **▶** or **◀**, and then select "Phonebook".



### 3.7.6 Searching for an Item in the Shared Phonebook

---

2. Enter your password, and then tap "OK".<sup>\*1</sup>
3. Press  **MENU**.
4. Tap "Unlock Phonebook", and then tap "OK".
5. Enter your password, and then tap "OK".<sup>\*1</sup>







<sup>\*1</sup> If you enter an incorrect password 3 times, you cannot enter another password for approximately 30 seconds.

### Unlocking the Phonebook Temporarily

1. In standby mode, tap  or , and then select "Phonebook".
2. Enter your password, and then tap "OK".<sup>\*1</sup>

<sup>\*1</sup> If you enter an incorrect password 3 times, you cannot enter another password for approximately 30 seconds.

## 3.7.6 Searching for an Item in the Shared Phonebook

1. In standby mode, tap  or , and then select "Phonebook".
2. If "Phonebook" is displayed as the title, tap .<sup>\*1</sup>
3. Tap .
4. Enter the name or the first character(s) of the desired name, and then tap "OK".
5. Tap  or , and select the desired name.
6. Select the desired phone number.
7. To make a call, do one of the following:
  - a. Go off-hook.<sup>\*2</sup>
  - b. Tap "Voice Call" to make a voice call.
  - c. Tap "Video Call" to make a video call (KX-HDV430 only).

<sup>\*1</sup> If only Shared Phonebook is permitted, this step is skipped.

<sup>\*2</sup> The type of call that is established depends on the "Call Mode" setting (KX-HDV430 only).






### Note

- To enter characters, see "2.7.3 Entering Characters".

## 3.8 Checking the Line Status

You can check the status of each line (KX-HDV330: up to 12 lines, KX-HDV340: up to 4 lines, KX-HDV430: up to 16 lines) on the display.




### In Standby Mode

1. Tap  or , and then select "Line Status".
2. Tap  or , and then select the line whose status you want to check.
3. Press / **CANCEL** to end checking the line status or tap the line to perform an action.

#### Note

- When a function key is assigned as a Line Status key, you can press that function key to display the line status screen.

### During a Conversation


1. Tap "Line Status".
2. Tap  or , and then select the line whose status you want to check.
3. Press / **CANCEL** to end checking the line status or tap the line to perform an action.

#### Note

- When a function key is assigned as a Line Status key, you can press that function key to display the line status screen.

#### Line status indication


For details about the contents of the display, see "Content of the Line Display Screen and the Combined Display Screen". However, note the following differences:





- You cannot view details or change settings by tapping the icons.
- Only the "Cancel" soft key is displayed. Tapping this key returns you to the original screen.
- Nothing happens when you press / **HOME**.
- Tapping a line will seize it.
- If you display this screen while receiving a call, only lines with incoming calls are displayed.

#### Note

- KX-HDV340 has no Line Display and Combined Display.  
The screen on page 45 is displayed as Line Status.

## 3.9 Listening to Voice Mail Messages

When you receive a voice message,  is displayed, or the Message Waiting indicator flashes slowly. You can check your new messages by accessing your mailbox.

1. In standby mode, press /MESSAGE or tap "Voice Message".
2. Tap  or , and then select the line on which  is displayed.

### 3.9.1 Xsi Visual Voice Mail

With the Voice Messaging service of Broadsoft-Xsi, you can receive detailed information about messages from the Xsi server. The following operations are available:

- Download messages
- Mark messages as read or unread
- Delete messages

For details, contact your phone system dealer/service provider.

The following limitations apply:

- Video messages are not supported.
- Voice message format: WAV only (MP3 is unavailable)
- Voice message recording time: Maximum 5 minutes

## 3.10 Network Camera (KX-HDV430 only)

Registering Network Cameras allows you to use the phone to view those cameras' video feeds. You can also control the camera's pan and tilt, zoom in, zoom out, etc.

If a Network Camera is associated with a phone number (Paging Number), you can call that number while viewing the camera's video feed.







Also, if a Network Camera is associated with phone numbers (Linked Numbers), when you begin a conversation, Network Camera viewer starts automatically and you can view the camera's video feed during the conversation.

### Note

- To view a Network Camera's video feed from this unit, the Network Camera must be configured to use H.264 as its video codec.
- Depending on the camera model, some operations may not be available.
- Calls with phone numbers that are associated with Network Cameras are available only as voice calls.
- For up-to-date information about Network Cameras that have been tested with this unit, refer to the following web site:  
<https://panasonic.net/cns/pcc/support/sipphone/>

### 3.10.1 Registering a Network Camera

You can register up to 16 Network Cameras connected to the network.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Network Camera".
3. Tap "Camera Registration".
4. Tap  or , and then select the number you want to register.
5. Enter the necessary information.

- **Name**

Specify the Network Camera's name. You can enter up to 20 characters.  
If you do not specify a name, one is automatically assigned.

- **Address**

Specify the Network Camera's IP address (IPv4/IPv6) or host name (FQDN). You can enter up to 256 characters.

- **Port Number**

Enter the Network Camera's port number (1–65535).  
The default value is 80.

- **User ID**



Enter the user ID to use when connecting to the Network Camera (max. 32 characters).

- **Password**

Enter the password to use when connecting to the Network Camera (max. 32 characters).



- **Paging Number**

Enter the name and phone number associated with the Network Camera (name: max. 24 characters, phone number: max. 32 characters).

- To select a number from the phone book: Tap .
- To select a number from the call history: Tap .

- **Linked Numbers**

Enter the names and phone numbers to associate with the Network Camera so that the video feed automatically displays when making or receiving a call. You can make up to 5 entries (name: max. 24 characters, phone number: max. 32 characters).

- To select a number from the phone book: Tap .
- To select a number from the call history: Tap .

- **Stream**

Select "Stream 1" or "Stream 2" if the Network Camera is configured to output multiple streams. For details, refer to your Network Camera's documentation.

## 3.10.2 Network Camera Viewer

### Starting Network Camera Viewer

1. In standby mode, tap  or , and then select "Network Camera".






#### Note

- The video feed of the Network Camera to which you most recently connected is displayed.
- No video feed is displayed if no Network Cameras have been registered.

### Closing Network Camera viewer

1. Press /HOME or , and then tap "OK".

### Selecting a Network Camera








1. In standby mode, tap  or , and then select "Network Camera".
2. Press /MENU.
3. Tap "Camera Selection".
4. Tap  or : Select the desired camera name, and then tap "OK".

### Controlling a Network Camera

#### [While displaying a video feed from a Network Camera (operation screen)]

Centering: While the status bar and operation area are displayed on the screen, tap the spot where you want to center the video feed.<sup>\*1</sup>

Perform the following steps to pan, tilt, zoom in/out, or move to the camera's home position.

1. Tap the screen to display the icons before performing the following operations.
2. Do one of the following.
  - a. To pan, tap  or .
  - b. To tilt, tap  or .
  - c. To zoom in, tap .
  - d. To zoom out, tap .
  - e. To move to the camera's home position, tap .

<sup>\*1</sup> Depending on the Network Camera, this feature may not be available.




**Note**

- If an icon is grayed out, that feature is not available.


**Switching Automatically among Multiple Network Cameras**

You can automatically cycle through the video feeds from registered Network Cameras at a set time interval.

**[While displaying a video feed from a Network Camera (operation screen)]**

1. Press  / **MENU**.
2. Tap "Camera Selection".
3. Tap "Sequential".

**To stop switching**





1. While switching, press  / **MENU**.
2. Tap "Camera Selection".
3. Tap any camera name.

**Note**

- The order in which video feeds are displayed follows the order in which the Network Cameras are registered.

**Interval switching settings**


**[While displaying a video feed from a Network Camera (operation screen)]**

1. Press  / **MENU**.
2. Tap "Camera Selection".
3. Press  / **MENU**.
4. Tap "Sequential Interval".
5. Tap  or : Select the desired item, and then tap "OK".

**3.10.3 Using Phone Numbers Associated with a Network Camera****Paging Number**

Paging can be performed using a phone number (Paging Number) associated with a Network Camera.

**[While displaying a video feed from a Network Camera (operation screen)]**

1. Tap the screen.
2. Tap .

**Note**

- A call is a voice call using the speakerphone from the default line.

**Linked Number**

The video feed of the Network Camera can be viewed by making or receiving a call using a phone number (Linked Number) associated with the Network Camera.

#### Making a call

1. In standby mode, dial the Linked Number.
2. Tap "Voice Call".  
The video feed of the Network Camera associated with the Linked Number is displayed.

#### Receiving a call

1. While receiving a call, tap "Voice Call".  
If the call received was made using a Linked Number, the video feed of the associated Network Camera is displayed.

## 3.10.4 Network Camera Presets





You can select a viewing position that has been registered in the Network Camera's settings beforehand. These registered viewing positions are called "presets".

#### Note

- Depending on the Network Camera, this feature may not be available.

### Adding a Preset

[While displaying a video feed from a Network Camera (operation screen)]

1. Press  **MENU**.
2. Tap "Preset".
3. Tap  or , and then select the desired item.
4. Tap "OK".  
Displays the selected position image.
5. To return to the preset selection screen, tap .  
To return to the operation screen, tap "OK".




#### Note

- Tapping  in step 3 displays the camera's position before a preset was selected.

### Adding a Preset to Your Favorites


You can register a preset to your favorites.



[While displaying a video feed from a Network Camera (operation screen)]

1. Press  **MENU**.
2. Tap "Preset".
3. Tap  or , and then select the preset you want to register.
4. Tap "Edit".
5. Tap "Add to Favourites/Favorites", and then tap "OK".

### Deleting a Preset from Your Favorites




[While displaying a video feed from a Network Camera (operation screen)]

1. Press  **MENU**.
2. Tap "Preset".

3. Tap  or , and then select the preset you want to delete.
4. Tap "Edit".
5. Tap "Remove from Favourites/Favorites", and then tap "OK".

## Editing a Preset's Name

**[While displaying a video feed from a Network Camera (operation screen)]**

1. Press  / **MENU**.
2. Tap "Preset".
3. Tap  or , and then select the preset to edit its name.
4. Tap "Edit".
5. Tap "Edit Preset Name".
6. Enter the name, and then tap "OK".

### Note

- In step 3, you can jump directly to a specific page by tapping "Page Jump" and entering the page number.
- You can edit the name of a preset registered as a favorite by tapping "Favourites/Favorites" after step 2.
- To reset a preset's name:
  1. Select the preset name.
  2. Tap "Edit".
  3. Tap "Delete Preset Name", and then tap "OK".


## 3.10.5 Adjusting the Brightness of the Picture

You can adjust the brightness of the Network Camera.

### Note

- Depending on the Network Camera, this feature may not be available.

**[While displaying a video feed from a Network Camera (operation screen)]**

1. Press  / **MENU**.
2. Tap "Camera Settings".
3. Tap "Brightness".
4. Do one of the following.
  - a. To adjust brighter, tap **+**.
  - b. To adjust darker, tap **-**.
  - c. To set to the default brightness, tap "Reset".
  - d. To exit, tap "OK".

### Note

- The range of brightness and default value depend on the Network Camera.

## 3.10.6 Automatic Mode

You can set up Automatic Mode.


### Note

- Depending on the Network Camera, this feature may not be available.

### Auto Pan

The Network Camera can be set to pan horizontally (left–right) repeatedly over its entire viewing range.

**[While displaying a video feed from a Network Camera (operation screen)]**


1. Press  **MENU**.
2. Tap "Camera Settings".
3. Tap "Auto Mode".
4. Tap "Auto Pan", and then tap "OK".<sup>\*1</sup>

<sup>\*1</sup> To cancel Automatic Mode, tap "Off", and then tap "OK".

### Preset Sequence

You can have the Network Camera display multiple preset viewing positions in a repeating cycle.

**[While displaying a video feed from a Network Camera (operation screen)]**


1. Press  **MENU**.
2. Tap "Camera Settings".
3. Tap "Auto Mode".
4. Tap "Preset Sequence", and then tap "OK".<sup>\*1</sup>

<sup>\*1</sup> To cancel Automatic Mode, tap "Off", and then tap "OK".

### Automatic Tracking

You can have the camera automatically follow a moving object.

**[While displaying a video feed from a Network Camera (operation screen)]**

1. Press  **MENU**.
2. Tap "Camera Settings".
3. Tap "Auto Mode".
4. Tap "Auto Tracking", and then tap "OK".<sup>\*1</sup>

<sup>\*1</sup> To cancel Automatic Mode, tap "Off", and then tap "OK".

## 3.10.7 Receiving Alarms from Network Cameras

When an alarm from a Network Camera (movement detection, error, abnormality, etc.) is detected, this unit can display the video feed from the camera that issued the alarm.

### Note

- Alarms can be indicated by a sound and/or a pop-up message on the display.
- Depending on the Network Camera, this feature may not be available.

## When an Alarm Notification Appears in a Pop-up Message




To connect the Network Camera where the alarm occurred

1. Tap "OK" on the pop-up message.

### Note



- Tap "Cancel" to not connect to the Network Camera.
- If you received an alarm during a video call, the call is automatically switched to a voice call.

### Checking an Alarm

1. In standby mode, tap  or , and then select "Call History"
2. Tap .
3. Tap an item to connect to the camera and view its video feed.





\*1 A list of Network Cameras where an alarm has occurred is displayed.

### Note

- To delete an item from the list, tap , tap the check boxes of the items you want to delete, tap , and then tap "OK".







## Configuring an Alarm Notification

### Alarm Notification Settings

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Network Camera".
3. Tap "Alarm Settings".
4. Tap "Notification".
5. Tap "Pop Up", and then tap "OK".





### Alarm Disarm Period Settings

You can set the period of time in which other alarm notifications are stopped (disarmed) after an alarm occurs.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Network Camera".
3. Tap "Alarm Settings".
4. Tap "Disarm Time".
5. Tap  or : Set the disarm time (in seconds), and then tap "OK".

### Alarm Port Number Settings

You can set the port number for receiving alarms.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Network Camera".
3. Tap "Alarm Settings".
4. Tap "Port Number".

### 3.10.7 Receiving Alarms from Network Cameras

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5. Enter a port number, and then tap "OK".

## 3.11 Communication Camera (KX-HDV430 only)

By registering a Communication Camera and then selecting it from the list, you can make a call to monitor the camera's video feed and allow voice communication.

When a call is received from a Communication Camera, you can monitor video feed of the other party.

You can operate the Communication Camera (pan/tilt), zoom in/zoom out the video feed, and control devices connected to the Communication Camera (for example, to unlock a door). These features can be used with KX-NTV150 and KX-NTV160 models.







This chapter describes the special functions and operations of the Communication Camera.

Refer to the relevant sections of this manual for operations not described here.





### 3.11.1 Using a Communication Camera

#### Registering a Communication Camera


You can register up to 16 Communication Cameras connected to the network.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Comm. Camera".
3. Tap  or , and then select the number you want to register.
4. Enter the necessary information.
  - **Name**  
Specify the camera's name. You can enter up to 24 characters.
  - **Phone Number**  
Enter the phone number of the Communication Camera.
  - **Ringer Type**  
Set the ringtone for when a call is received by the Communication Camera. The default is "Ringtone 10".


#### Calling a Communication Camera

1. In standby mode, tap  or , and then select "Comm. Camera".
2. Tap  or , and then select the Communication Camera to call.
3. Tap "Camera Monitor" to monitor the video.  
Tap "Camera Call" or go off-hook to make a voice call.

#### Note

- To make a voice call while monitoring a video feed, tap the screen, and then tap  or go off-hook.
- When a call is made by dialing a phone number, the video call screen is displayed.

#### Receiving a Call from a Communication Camera


- When a call is received, only one ring will be heard from the speaker.
- When a call is received, the camera's video feed is displayed. Then, to enable voice communication, tap the screen, and then tap .
- While on a voice call with a Communication Camera and a call is received from another Communication Camera, tap "Camera" to answer the call. The current call will be put on hold.

#### Transferring a Call with a Communication Camera

For details about this operation, see "3.4.1 Transferring a Call (Call Transfer)".

#### Note

- Transfer destination's operation screen (KX-HDV430)
  - When a voice call is transferred, the voice call screen is shown.
  - When a video call is transferred and the Communication Camera is registered at the transfer destination, the video monitor screen is shown.\*<sup>1</sup> If the camera is not registered, the video call screen is shown.

\*<sup>1</sup> To make a voice call while monitoring a video feed, tap the screen, and then tap  or go off-hook.

### Conference Calls when Connected to a Communication Camera










A video conference call cannot be established with a Communication Camera. If a third party is added during a call with a Communication Camera, a voice conference call will be established.

## 3.11.2 Operation Icons of the Communication Camera Screen

Normally, the video feed is displayed in full screen. If you tap the screen, the status bar and operation area are displayed. After a certain amount of time, the display returns to full screen. (Tap the screen again to show the status bar and operation area.)

#### [While displaying the video feed from a Communication Camera (operation screen)]

Tap the screen to display the icons before performing the following operations.

- To pan, tap  or .
- To tilt, tap  or .
- To zoom in, tap .
- To zoom out, tap .
- To unlock, tap .\*<sup>1</sup>
- To switch from monitoring the video feed to a call, tap .
- To disconnect, tap .

\*<sup>1</sup> Controlling devices connected to a Communication Camera (for example, unlocking a door).



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## **Section 4**







# ***Customizing the Telephone***

*This section shows you how to customize your individual telephone according to your needs.*

# 4.1 Setting the LCD Display









## Changing the Telephone's LCD Display

You can change what is displayed on the telephone's LCD.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Display Option".
3. Tap  or , and then select "Standby Display".
4. Select the desired item, and then tap "OK".

## Selecting the Display Language

You can select the language displayed on your LCD.

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Display Option".
3. Tap  or , and then select "Language".
4. Tap  or , and then select a language.
5. Tap "OK".

## 4.2 Setting the Password





The telephone password is not set by default. You must register a password (4 digits) before use. You cannot use the following features without setting a password:

- Phonebook lock (See "3.7.5 Locking/Unlocking the Phonebook".)

### Note

- To avoid unauthorized access to this product:
  - Set a password that is random and cannot be easily guessed.
  - Change the password regularly.
- Make a note of the password so that you will not forget it.

### To set

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select "Other Option".
3. Tap "Change Password".
4. Enter a new password (4 digits [0–9]), and then tap "OK".<sup>\*1</sup>
5. Verify the password by entering it again as in step 4.






<sup>\*1</sup> If a password is already set, you will need to enter the old password first.

# 4.3 Using Hot Keys

By assigning phone numbers to dial keys, you can make a call by pressing and holding a dial key. (See "Hot Key Dialing".)

## Assigning Hot Keys from Phonebook



You can assign a phone number stored in the Personal Phonebook to a key to be used as a Hot Key.

1. In standby mode, press and hold a dial key (0–9) for more than 1 second.
2. Tap .
3. Tap .
4. Enter the name or the first character(s) of the desired name.
5. Tap  or , and then select the desired name.
6. Select a desired phone number.
7. Tap .



### Note



- For details about searching for an item in the phonebook, see "3.7.4 Searching for an Item in the Personal Phonebook".


## Editing Hot Keys

1. In standby mode, press and hold a dial key (0–9) for more than 1 second.
2. Tap .
3. Tap "Name", if necessary.
4. Edit the name, and then tap "OK".
5. Tap "Phone Number", if necessary.
6. Edit the phone number, and then tap "OK".
7. Tap .

## Deleting a Hot Key


1. In standby mode, press and hold the dialing key assigned as a Hot Key for more than 1 second. <sup>\*1</sup>
2. Tap .
3. Tap the check boxes of the items you want to delete. <sup>\*2</sup>
4. Tap , and then tap "OK".

<sup>\*1</sup> While the Hot Key's information is displayed, you can tap  or  to select another Hot Key number.

<sup>\*2</sup> You can select all items in the list by tapping .

## Selecting the Type of Hot Key Dialing

You can select one of 2 types of Hot Key Dialing for each assigned Hot Key.

1. In standby mode, press and hold a dial key (0–9) for more than 1 second.
2. Tap .
3. Tap "Automatic Call".

4. Select "Manual" or "Auto", and then tap "OK".

Option	Description
<b>Manual</b>	Press and hold the dialing key (0–9) assigned as a Hot Key for more than 1 second, and then go off-hook.
<b>Auto</b>	Pressing and holding an assigned Hot Key for the set number of seconds will dial that Hot Key's assigned number immediately.

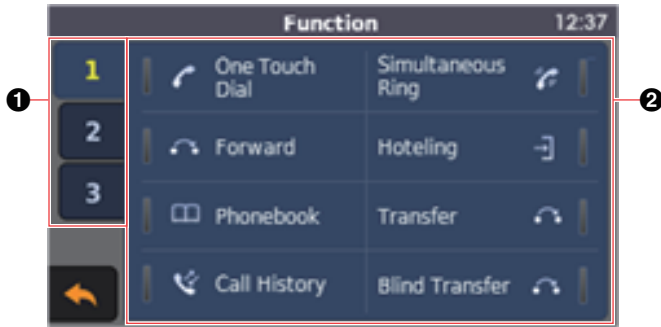
**Note**

- To select the number of seconds before the call is automatically made, see "Hot Key Time" in "Key Option".

## 4.4 Function Keys (Program Keys and DSS Keys)

### 4.4.1 Program Keys

Tapping "Function" displays the function keys. 8 keys are displayed on one page.



#### Note

- Example images of the display in this manual are samples only, and the actual screen on your phone may vary in language and/or appearance.

#### ① Page selection

There are 3 pages (screens) of function keys. Tapping the number displays that page. If the status of a function key that is not displayed changes, the page number for that key will blink.

#### ② Function key layout

- Page 1: Function keys 1–8
- Page 2: Function keys 9–16
- Page 3: Function keys 17–24

The function keys are arranged vertically, starting at the top left.

### 4.4.2 Changing the Function Keys

1. In standby mode, tap or , and then select "Basic Settings".
2. Tap or , and then select "Key Option".
3. Tap "Program Key".<sup>1</sup>
4. Tap or , and then select the key to change.
5. Tap "Function".
6. Tap or , and then select the new item to assign.<sup>2</sup>
7. Tap "OK".
  - Specify additional settings, such as "Line", "Label" and "Phone Number" as necessary.
8. Tap .

<sup>1</sup> To assign functions to the DSS keys on a KX-HDV20, tap "DSS Key".  
You can also assign a function by pressing the desired DSS key for 3 or more seconds.

<sup>2</sup> To clear the current setting, tap "None".

### 4.4.3 The Types of Function Keys

Each of the function keys can be assigned one of the following functions.

**Note**

- In addition to the Line function, other functions can be assigned to individual lines. However, only lines that have been set up in advance can be selected.
- If your phone is connected to a Panasonic KX-HTS series PBX, the method for changing these keys and the functions that can be assigned are different.  
For details, see the documentation for the KX-HTS series PBX.

**1. One Touch Dial**

Used to dial a previously set phone number with one touch.

The type of call that is established depends on the Call Mode setting (KX-HDV430 only).

**2. BLF (Busy Lamp Field)**

Used to transfer calls to the extension assigned to the key while receiving an incoming call or during a conversation. The indicator of a BLF key also shows the current status of the extension assigned to the key.

Status		Meaning
Color	Light pattern	
Red	Off	Available
	On	Unavailable
	Quick Flashing	Ringing
Blue	On	Call Park

**Note**

- More than 48 BLF keys can be programmed, but status indication is available only up to 48 keys.

**3. Line**

Used to seize a line in order to make or receive a call. The color of each key's indicator shows the status of the line.

Status		Meaning
Color	Light pattern	
Blue	On	In Use • You are on a call.
	Slow Flashing	Line On Hold • A call is on hold.
	Quick Flashing	Incoming Call or Recall • A call (including Hold Recall) is being received.
Red	On	Name or number of caller • A call to a shared line is being received.
		In Use • A shared line is in use or a call is on private hold at another unit.
Red	Slow Flashing	Line On Hold • A shared line is on hold at another unit.

#### 4.4.3 The Types of Function Keys

Status		Meaning
Color	Light pattern	
Off	—	Free <ul style="list-style-type: none"> <li>The line is idle.</li> </ul>

#### 4. ACD[Login] / ACD[Wrap Up] <sup>\*1</sup>

ACD[Login]: Used to log in/log out of an Automatic Call Distribution Group.

ACD[Wrap Up]: Used to change the phone's status from "Unavailable" → "Wrap Up" → "Available".

The color of each key's indicator shows the status of the key.

Status		Meaning	
Color	Light pattern	ACD[Login]	ACD[Wrap Up]
Red	Off	Login	Available
	On	Logout	Unavailable
	Slow Flashing	—	Wrap Up

#### 5. Line Status

Used to confirm the status of each line. This allows the function key to work as a Line key such as seizing a line in order to make or receive a call.

See "3.8 Checking the Line Status".

#### 6. Call Forward

Used to forward incoming calls to the extension assigned to the key.

#### 7. Phonebook <sup>\*2</sup>

Used to open the phonebook.

#### 8. Call History <sup>\*2</sup>

Used to open the Incoming / Outgoing Call Log.

#### 9. Simultaneous Ring <sup>\*1</sup>

Enables parallel ringing. Up to 10 locations can be specified to ring simultaneously when you receive a call.

Status		Meaning
Color	Light pattern	
Blue	On	Simultaneous Ring feature: On
	Off	Simultaneous Ring feature: Off

#### 10. Hoteling/Hospitality <sup>\*1</sup>

Used to log in/log out of the Call Center Hoteling Event.

#### 11. Transfer

Used to transfer a call to the extension assigned to the key by confirmation transfer or automatic transfer during a conversation.

#### 12. Blind Transfer <sup>\*1</sup>

Used to transfer a call to the extension assigned to the key by blind transfer during a conversation.

#### 13. Conference

Used to add the extension assigned to the key to a multiple-party conversation (conference).

#### 14. Directed Call Pickup <sup>\*1</sup>

Used to answer an incoming call arriving at the specified telephone number.



**15. Call Park** <sup>\*1</sup>

Used to park a call (Call Parking).

**16. Park Retrieve** <sup>\*1</sup>

Used to retrieve a parked call.

**17. Presence**

Used to confirm the current status of the extension assigned to the key.

When the extension is "Available", you can call the registered telephone number by tapping/pressing the key.

Status		Meaning
Color	Light pattern	
Blue	On	Available
Red	On	Busy
	Slow Flashing	Away
Off	—	Offline

(My Phone)

Used to configure the current status of My Phone. The status can be changed by tapping/pressing the key.

Status		Meaning
Color	Light pattern	
Blue	On	Available
Red	On	Busy
	Slow Flashing	Away
Off	—	Offline / Invisible

**18. Group Pickup** <sup>\*1</sup>

Used to answer a group call.

**19. Network Camera** (For KX-HDV430 only)

Used to connect to a Network Camera. This specifies the name of Network Camera to connect to.

<sup>\*1</sup> This item can be used only when the feature is enabled. Contact your administrator for further information.

<sup>\*2</sup> This item can be selected when the list is registered on the telephone. Contact your administrator for further information.









# 4.5 Using the Anonymous Call Features

## Making an Anonymous Call

Before making a call, specify the following:

### Note

- Availability depends on your phone system.
- A password may be required for these settings. We recommend setting with your administrator. Contact your administrator for further information.









1. In standby mode, tap  or , and then select "Advanced Settings".
2. Tap  or , and then select "Call Settings".
3. Tap  or , and then select "Anonymous Call".
4. Tap  or , and then select a line.
5. Select "On" or "Off", and then tap "OK".

## Blocking Anonymous Calls

This feature allows the unit to reject calls when the unit receives a call without phone number. The default setting is "Off".

### Note

- A password may be required for these settings. We recommend setting with your administrator. Contact your administrator for further information.

1. In standby mode, tap  or , and then select "Advanced Settings".
2. Tap  or , and then select "Call Settings".
3. Tap  or , and then select "Block Anonymous".
4. Tap  or , and then select a desired line.
5. Select "On" or "Off", and then tap "OK".

## 4.6 Barring Incoming Calls (Caller ID<sup>\*1</sup> service users only)

This feature allows the unit to reject calls from specified phone numbers that you do not want to answer such as junk calls.

When a call is received, the unit does not ring while the caller is being identified.

If the phone number matches an entry in the call barred list, the unit rejects the call.









- <sup>\*1</sup> If an outside call that contains Caller ID information (a caller's name and telephone number) is received, this information will be logged in the incoming call log and displayed on the LCD.  
If a call from a number matching a number entered in the phonebook is received, the name registered in the phonebook for that number will be displayed along with the number.  
If caller information is sent by the phone system and there is also information stored in the phonebook for the same number, the information stored in the phonebook will be displayed.

### Note

- A password may be required for these settings. We recommend setting with your administrator. Contact your administrator for further information.

### Storing unwanted callers









You can store up to 30 phone numbers in the call barred list by using the caller list or by entering the numbers directly.

- In standby mode, tap  or , and then select "Advanced Settings".
- Tap  or , and then select "Call Settings".
- Tap  or , and then select "Block Caller ID".
- Tap  or , and then select a blank line.
- Enter the phone number (max. 32 digits), and then tap "OK".










### Note

- You can also register a phone number by tapping "Block Caller ID" when a caller who you want to block is selected on the incoming call log list and continuing the procedure from step 5.

### Editing the phone numbers to reject


- In standby mode, tap  or , and then select "Advanced Settings".
- Tap  or , and then select "Call Settings".
- Tap  or , and then select "Block Caller ID".
- Tap  or , and then select a desired phone number.
- Edit the phone number, and then tap "OK".


### Deleting the phone numbers to reject

- In standby mode, tap  or , and then select "Advanced Settings".
- Tap  or , and then select "Call Settings".
- Tap  or , and then select "Block Caller ID".
- Tap .
- Tap  or , and then tap the check boxes of the items you want to delete.<sup>\*1</sup>

#### 4.6 Barring Incoming Calls (Caller ID<sup>\*1</sup> service users only)

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6. Tap , and then tap "OK".

<sup>\*1</sup> You can select all items in the list by tapping .







## 4.7 Setting ECO Mode

Enabling this mode reduces the amount of electricity consumed by the unit.

### Note

- When ECO mode is enabled, the "Link Speed" setting changes as follows:
    - Link Speed: "10M/Full" <sup>\*1</sup>
    - PC port cannot be used
  - When the ECO mode setting is changed, the unit will restart.
  - When ECO mode is enabled,  is displayed in the status bar.
- <sup>\*1</sup> The port of the switching hub to which the unit is connected must be 10 Mbps (Fixed) / full duplex.

### To set





1. In standby mode, tap  or , and then select "System Settings".
2. Tap  or , and then select "System Settings".
3. Tap  or , and then select "ECO Mode"<sup>\*1</sup>.
4. Tap "On", and then tap "OK".<sup>\*2</sup>

<sup>\*1</sup> The administrator password may be required for this setting. Contact your administrator for further information. For available characters, see "5.2 Character Table for Administrator Password".

<sup>\*2</sup> To disable ECO mode, select "Off" (default).

## 4.8 Changing the Basic Setting

To select the main item

1. In standby mode, tap  or , and then select "Basic Settings".
2. Tap  or , and then select the main item.

Main item	Sub Item
Incoming Option	Ringer Volume, Ringer Type
Talk Option	Speaker Volume, Handset Volume, Headset Volume
Answer Option	Auto Ans Device, Auto Ans Delay, Auto Answer (KX-HDV430 only)
Key Option	Program Key, DSS Key, Hot Key Time
Display Option	Language, Backlight, Standby Display, Category Name, Date Format, Time Format, Screen Saver, DSS Control, Notification
Key Tone	—
Bluetooth Headset	Connection, Registration
Video Options(KX-HDV430 only)	Call Mode, Screen Mode, Image Sending, Rate Settings, Camera Settings
Network Camera(KX-HDV430 only)	Alarm Settings, Camera Registration
Comm. Camera(KX-HDV430 only)	—
Other Option	Change Password, Embedded Web

### 4.8.1 Basic Settings Menu Layout

#### Incoming Option

Sub Item	Description	Setting		Default
Ringer Volume	Adjusts the ringer volume.	0–8		5
Ringer Type	Selects the ringtone for each type of call. <sup>*1</sup>	For KX-HDV330: Line 1–Line 12	Ringtone 1–19, 25–32	Ringtone 1 <sup>*2</sup>
		For KX-HDV340: Line 1–Line 4		
		For KX-HDV430: Line 1–Line 16		
		Private Ring (Category 1– Category 9)		

<sup>\*1</sup> The preset melodies in this product are used with permission of © 2010 Copyrights Vision Inc.

<sup>\*2</sup> The default ringtone is different depending on the line number. For example, the default for line 3 is ringtone 3.

## Talk Option

Sub Item	Description	Setting	Default
Speaker Volume	Adjusts the speaker volume.	Level 1–Level 8	Level 5
Handset Volume	Adjusts the handset volume.	Level 1–Level 8	Level 5
Headset Volume	Adjusts the headset speaker volume.	Level 1–Level 8	Level 5
Equalizer	Selects the type of receiver quality.	Normal / Treble <sup>*1</sup>	Normal

<sup>\*1</sup> Emphasizes the high-frequency.

## Answer Option

Sub Item	Description	Setting	Default
Auto Ans Device	Selects the types of devices that can be answered by Auto Answer.	Speaker Phone / Headset	Speaker Phone
Auto Ans Delay	Selects the number of seconds before a call is automatically answered when Auto Answer is turned on.	0s–20s	6s
Auto Answer ( KX-HDV430 only)	Selects the types of calls that can be answered by Auto Answer.	Voice Call / Voice and Video	Voice Call

## Key Option

Sub Item	Description	Setting	Default
<ul style="list-style-type: none"> <li>• Program Key</li> <li>• DSS Key</li> </ul>	Assigns a function to each program key or DSS key. See "4.4 Function Keys (Program Keys and DSS Keys)".	None One Touch Dial BLF Line ACD[Login] ACD[Wrap Up] Line Status Call Forward Phonebook Call History Simultaneous Ring Hoteling/Hospitality Transfer Blind Transfer Conference Directed Call Pickup Call Park Park Retrieve Presence Group Pickup Network Camera (KX-HDV430 only)	None
Hot Key Time	Selects the number of seconds before a call is automatically made when a Hot Key assigned to "Auto" is pressed and held.	1s–20s	2s



## Display Option

Sub Item	Description	Setting		Default
Language	Selects the display language. Up to 10 languages can be downloaded from the server or Web as necessary. Contact your administrator for further information.	Suffix: NE / X / SX	Auto / English / Deutsch / Español / FRANÇAIS / Italiano / Svenska / Nederlands / Português / Čeština	Auto
		Suffix: (none) / C	Auto / English / Español / FRANÇAIS	Auto
		Suffix: RU	Auto / English / РУССКИЙ / Українська	Auto
Backlight	Selects the length of time before the backlight turns off after returning to the standby display, the level of the backlight when it's active, and the level of the backlight when it's inactive.	Screen Timeout	30 sec. / 1 min. / 5 min. / 10 min. / 30 min. / 60 min. / 120 min. / 180 min. / 300 min. / Always On	1 min.
		Active Level	Level 1–Level 8	Level 8
		Inactive Level	Low / Off	Off
Standby Display	Selects what is shown on the display while in standby mode.	Phone Number / Phone No&Name / Name / Off		Phone Number
Category Name	Edits the names of the categories.	Max. 13 characters x Category (1–9)		Not stored
Date Format	Selects the format for the date shown on the display in standby mode.	Suffix: NE / X / SX / RU	DD-MM-YYYY / MM-DD-YYYY	DD-MM-YYYY
		Suffix: (none) / C	DD-MM-YYYY / MM-DD-YYYY	MM-DD-YYYY
Time Format	Selects the format for the time shown on the display in standby mode.	Suffix: NE / X / SX / RU	12H / 24H	24H
		Suffix: (none) / C	12H / 24H	12H

#### 4.8.1 Basic Settings Menu Layout

Sub Item	Description	Setting		Default
Screen Saver <sup>*1</sup>	Selects the length of time before the screen saver activates.	Off / 10 sec. / 30 sec. / 1 min. / 3 min. / 5 min.		Off
DSS Control	Adjusts the backlight and LCD contrast of connected KX-HDV20 units.	Backlight	Auto / On (Level 1–Level 6) / Off	Auto Level 6
		LCD Contrast	Level 1–Level 6	Level 3
Notification	Selects the notification method (Message, LED, or Alarm) for missed calls and voice messages, and Network Camera alarm notifications. Message: Displays a message on the screen LED: Indicator lights Alarm: An alarm sounds	Missed Call		All settings: On
		Message	On / Off	
		LED	On / Off	
		Voice MSG		
		Message	On / Off	
		LED	On / Off	
		Alarm	On / Off	
		Network Camera <sup>*2</sup> (KX-HDV430 only)		
		Message	On / Off	
		LED	On / Off	
		Alarm	On / Off	

<sup>\*1</sup> Screen Saver only starts when the unit is in standby mode.

<sup>\*2</sup> This option is available if the Network Camera alarm notification setting is "Pop Up".

### Key Tone

Sub Item	Description	Setting	Default
Key Tone	Turns the key tone on or off.	On / Off	On

### Bluetooth Headset

Sub Item	Description	Setting	Default
Bluetooth Headset	Registers and deregisters a Bluetooth headset.	See "2.7.5 Bluetooth Headset".	Not registered

### Video Options(KX-HDV430 only)

Sub Item	Description	Setting	Default
Call Mode	Selects the type of call to make when calls are automatically connected.	Voice Call / Video Call	Voice Call

Sub Item	Description	Setting		Default
Screen Mode	Selects the display mode of the other party's video feed when a video call is connected.	Normal / Split		Normal
Image Sending	Selects whether the camera's video feed is sent when a video call is started.	On / Off		On
Rate Settings	Selects the bit rate, frame rate, and image size for the video feed sent and received during a video call. You can also select whether the set bit rate is used as the maximum bit rate or as a fixed bit rate.	Bit Rate	128 kbps / 256 kbps / 384 kbps / 512 kbps / 768 kbps / 1024 kbps / 2048 kbps	2048 kbps
		Bit Rate Usage <sup>*1</sup>	Maximum / Fixed	Maximum
		Frame rate	15 fps / 30 fps	30 fps
		Image Size	QCIF / QVGA / CIF / HVGAW / VGA	HVGAW
Camera Settings	Adjusts the quality of your video feed.	Brightness	0–6	3
		Saturation	0–6	3
		Contrast	0–3	2
		Sharpness	0–6	3
		Anti-flicker	50Hz / 60Hz	50Hz

\*1 Maximum: The bit rate is negotiated with the other party. Fixed: The bit rate specified in "Bit Rate" is used.

### Network Camera (KX-HDV430 only)

Sub Item	Description	Setting		Default
Alarm Settings	Specifies Network Camera alarm notifications, the alarm disarm time, and the alarm port number.	Notification	Off / Pop Up	Off
		Disarm Time	2–10 (sec)	2
		Port Number	1024–65535	1818
Camera Registration	Registers a Network Camera.	See "3.10.1 Registering a Network Camera".		Not registered

### Comm. Camera (KX-HDV430 only)

Sub Item	Description	Setting	Default
Comm. Camera	Registers a Communication Camera.	See "3.11.1 Using a Communication Camera".	Not registered

### Other Option

Sub Item	Description	Setting	Default
Change Password <sup>*1</sup>	Changes the telephone password (4 digits) used for unlocking the Phonebook.	<ol style="list-style-type: none"> <li>1. Enter Old Password.<sup>*2</sup></li> <li>2. Enter New Password.</li> <li>3. Verify New Password.</li> </ol>	Not registered
Embedded Web <sup>*3</sup>	Selects whether the web function and the logging function are available or not.	On / Off	Off

- <sup>\*1</sup>
- To avoid unauthorized access to this product:
    - Set a password that is random and cannot be easily guessed.
    - Change the password regularly.

- Make a note of the password so that you will not forget it.

- For details about setting the password, see "4.2 Setting the Password".

<sup>\*2</sup> If a password has not already been set, this step is skipped.





<sup>\*3</sup> The administrator password may be required for this setting. Contact your administrator for further information. For available characters, see "5.2 Character Table for Administrator Password".

## 4.9 Changing the System Settings

### Note

- The feature depends on your phone system. Contact your administrator for further information.

### To select the main item

- In standby mode, tap  or , and then select "System Settings".
- Tap  or , and then select the main item.

Main item	Sub Item
Status	Line Status, Firmware Version, IP Mode, IPv4 Settings, IPv6 Settings, MAC Address, LLDP, CDP, VLAN
Network Settings	IP Mode Select, IPv4 Settings, IPv6 Settings, LLDP, CDP, VLAN, Link Speed, Embedded Web, Network Test
System Settings	Set Time & Date, Authentication, Access Code, ECO Mode, Restart, DSS Restart

### 4.9.1 System Settings Menu Layout

#### Status

Sub Item	Description	Status
Line Status  For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	Displays the line status.	Registered / Registering / (NULL)
Firmware Version	Displays the firmware version of the telephone.	—
IP Mode	Displays the IP network mode.	IPv4 / IPv6 / IPv4&IPv6
IPv4 Settings	Displays information about IPv4 settings.	IP Address <sup>*1</sup> Subnet Mask <sup>*1</sup> Default Gateway <sup>*1</sup> DNS 1 <sup>*1</sup> DNS 2 <sup>*1</sup>
IPv6 Settings	Displays information about IPv6 settings.	IP Address <sup>*2</sup> Prefix <sup>*3</sup> Default Gateway <sup>*2</sup> DNS 1 <sup>*2</sup> DNS 2 <sup>*2</sup>
MAC Address	Displays the MAC address of the telephone.	—

#### 4.9.1 System Settings Menu Layout

---

Sub Item	Description	Status
LLDP	Displays the LLDP status.	On / Off
CDP	Displays the CDP status.	On / Off
VLAN	Displays the VLAN ID and priority.	—

\*1 If this item is not set, “...” is displayed. If the telephone is not connected to the network, “...” is displayed.

\*2 If this item is not set, “0::0” is displayed. If the telephone is not connected to the network, “::” is displayed.

\*3 If this item is not set, “0” is displayed. If the telephone is not connected to the network, a blank is displayed.

## Network Settings

The administrator password may be required for Network Settings. Contact your administrator for further information. For available characters, see "5.2 Character Table for Administrator Password".

Sub Item	Description	Setting				Default
IP Mode Select	Changes the network settings of the telephone. Current settings are displayed as a highlight.	IPv4 / IPv6 / IPv4&IPv6				IPv4
IPv4 Settings	Specifies the IPv4 settings.	Connection Mode	DHCP	Auto		DHCP – Auto
				Manual	DNS 1 DNS 2	
			Static	IP Address Subnet Mask Default Gateway DNS 1 DNS 2		
IPv6 Settings	Specifies the IPv6 settings.	Connection Mode	DHCP	Auto		DHCP – Auto
				Manual	DNS 1 DNS 2	
			RA	DNS 1 DNS 2		
			Static	IP Address Prefix Default Gateway DNS 1 DNS 2		
LLDP	Specifies the LLDP settings.	PC Port	VLAN ID			0
			Priority			0
		On / Off				On
CDP	Specifies the CDP settings.	On / Off				Off
VLAN	Specifies the VLAN settings.	Enable VLAN	Yes / No			No
		IP Phone	VLAN ID			2
			Priority			7
		PC	VLAN ID			1
			Priority			0

#### 4.9.1 System Settings Menu Layout

Sub Item	Description	Setting		Default
Link Speed <sup>*1</sup>	Specifies the Ethernet PHY mode settings.	IP Phone	Auto / 100M/Full / 100M/Half / 10M/Full / 10M/Half	Auto
		PC	Auto / 100M/Full / 100M/Half / 10M/Full / 10M/Half	Auto
Embedded Web	Selects whether the web function and the logging function are available or not.	On / Off		Off
Network Test	Specifies an IP address to ping.	IP Address (IPv4)		Not stored

<sup>\*1</sup> If a connection with Auto Negotiation fails, the connection will be made at either 10 Mbps/half duplex or 100 Mbps/half duplex.



## System Settings

Sub Item	Description	Setting	Default
Set Time & Date <sup>*1</sup>	Specifies the time and date of the telephone.	Date Time	—
Authentication <sup>*2</sup>	Specifies the ID and password for HTTP authentication.	ID <sup>*3</sup> Password <sup>*3</sup>	Not stored
Access Code <sup>*4</sup>	Specifies the access code to access the redirect server.	Max. 16 characters	Not stored
ECO Mode <sup>*2</sup>	Selects whether to enable ECO mode.	On / Off	Off
Restart	Restart the unit.	Yes / No	No
DSS Restart	Restart any connected DSS units.	Yes / No	No

<sup>\*1</sup> Availability depends on your phone system. When the power supply is cut off due to a power outage or other reasons or after the unit is restarted, a reconfiguration will be necessary as the current setting values are deleted. Therefore, it is recommended to use the NTP server. Contact your administrator for further information.





<sup>\*2</sup> The administrator password may be required for this setting. Contact your administrator for further information. For available characters, see "5.2 Character Table for Administrator Password".

<sup>\*3</sup> Max. 128 characters

<sup>\*4</sup> This setting may not be displayed depending on the settings of this unit. Contact your administrator for further information.

## 4.10 Changing the Advanced Settings

To select the main item

1. In standby mode, tap  or , and then select "Advanced Settings".
2. Tap  or , and then select the main item.

Main Item	Sub Item
Xsi Setting	—
UC Setting	—
Call Settings	Block Anonymous, Anonymous Call, Block Caller ID, Anywhere, Remote Office, SimultaneousRing, System Lock
Executive Filtering	—
Assistant Settings	Assistant Filtering, Divert Setting

### 4.10.1 Advanced Settings Menu Layout

#### Xsi Setting

Sub Item	Description	Setting		Default
Xsi Setting <sup>*1</sup>	Specifies the ID and password for the Xsi service.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	ID <sup>*2</sup> Password <sup>*2</sup>	Not stored

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

<sup>\*2</sup> Max. 128 characters

#### UC Setting

Sub Item	Description	Setting	Default
UC Setting <sup>*1</sup>	Specifies the ID and password for the Broadsoft UC service (IM&P).	ID <sup>*2</sup> Password <sup>*2</sup>	Not stored

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

<sup>\*2</sup> Max. 128 characters

#### Call Settings

Sub Item	Description	Setting		Default
Block Anonymous	Specifies whether or not to block incoming anonymous calls.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On / Off	Off

Sub Item	Description	Setting		Default
Anonymous Call <sup>*1</sup>	Specifies whether or not to make outgoing anonymous calls.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On / Off	Off
Block Caller ID	Edits/deletes the phone numbers to reject incoming calls.	See "4.6 Barring Incoming Calls (Caller ID <sup>*1</sup> service users only)".		Not stored
Anywhere <sup>*3</sup>	Specifies/edits the Xsi's Anywhere settings.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	When registering: Name Phone Number <sup>*2</sup>  When editing: Status (On / Off) Phone Number <sup>*2</sup> Alt. Number <sup>*2</sup>	Not stored
Remote Office <sup>*3</sup>	Specifies the Xsi's Remote Office setting.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On / Off Phone Number <sup>*2</sup>	Off
SimultaneousRing <sup>*3</sup>	Specifies the Xsi's Simultaneous Ring setting.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On / Off Phone Number <sup>*2</sup>	Off
System Lock	Selects whether to lock the Call Settings menu.	On <sup>*4</sup> / Off		Off

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

<sup>\*2</sup> In a phone number that exceeds 32 digits, the exceeding digits will not be displayed.

<sup>\*3</sup> If the Xsi's service is available, you can select this item. Contact your administrator for further information.

<sup>\*4</sup> Password is required (4 digits).

### Executive Filtering

Sub Item	Description	Setting		Default
Executive Filtering <sup>*1</sup>	Selects whether to filter calls to an executive terminal using the Broadsoft Executive-Assistant feature.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On / Off	Off

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

### Assistant Settings

Sub Item	Description	Setting		Default
Assistant Filtering <sup>*1</sup>	Selects whether to filter calls to an assistant terminal using the Broadsoft Executive-Assistant feature.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On <sup>*2</sup> / Off <sup>*2</sup>	Off
Divert Setting <sup>*1</sup>	Selects the transfer feature for an executive terminal using the Broadsoft Executive-Assistant feature.	For KX-HDV330: Line 1–Line 12  For KX-HDV340: Line 1–Line 4  For KX-HDV430: Line 1–Line 16	On <sup>*3</sup> / Off	Off

<sup>\*1</sup> Select after a line to be set is selected.

This item is displayed only when the feature is enabled. Contact your administrator for further information.

<sup>\*2</sup> Selects after selecting an executive name.

<sup>\*3</sup> Specifies the phone number after tapping "Next".

## 4.11 Web User Interface Programming

The product provides a Web-based interface for configuring various settings and features, including some that are not programmable directly.

The following list contains some useful features that are programmable through the Web user interface. Contact your administrator for further information.

- Language Settings (IP Phone / Web)
- User Password (for access to Web user interface)
- Default Line for Outgoing
- Call Rejection Phone Numbers
- Call Features
  - Enable Anonymous Call
  - Enable Block Anonymous Call
  - Enable Do Not Disturb
  - Enable Call Forwarding Always
  - Forwarding Number (Always)
  - Enable Call Forwarding Busy
  - Forwarding Number (Busy)
  - Enable Call Forwarding No Answer
  - Forwarding Number (No Answer)
  - Ring Counts (No Answer)
- Hotline Number
- Flexible Key Setting
- Phonebook Import and Export
- DSS Console
- Video Call (KX-HDV430 only)
- Communication Camera (KX-HDV430 only)

### Note

- Each time you want to access the Web user interface, you must enable Web programming (Embedded Web).

## 4.12 Updating the Software

Your phone system dealer may offer new features and improve its software version from time to time. Contact your administrator for further information.



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## **Section 5**

### **Appendix**

*This section contains specifications, troubleshooting, error messages and wall mounting templates.*

## 5.1 Character Mode Table

### Character entry modes

The six character entry modes let you enter a variety of characters. The following character modes are available:

- Latin **ABC**
- Numeric **0-9**
- Greek **ΑΒΓ**
- Extended 1 **ŔŖŔ / +ŔŔ**
- Extended 2 **ŠšŠ**
- Cyrillic **АБВ**



## Suffix: [none] / C

Keys	ABC (Latin)	0-9 (Numeric)	+ (Extended 1)
[1]	Space # & ' ( ) ✕ , - . / 1	1	Space # & ' ( ) ✕ , - . / 1
[2]	A B C 2	2	A À Á Â Ã Ä Å Æ B C Ç 2
	a b c 2		a à á â ã ä å æ b c ç 2
[3]	D E F 3	3	D Ð E Ê Ë Ì Í Î Ï F 3
	d e f 3		d ð e ê ë ì í î ï f 3
[4]	G H I 4	4	G Ğ H Ì Í Î Ï Ñ Ò Ó 4
	g h i 4		g ğ h ì í î ï ñ ò ó 4
[5]	J K L 5	5	J K L 5
	j k l 5		j k l 5
[6]	M N O 6	6	M N Ñ O Ò Ó Ô Õ Ö Ø Æ 6
	m n o 6		m n ñ o ò ó ô õ ö ø æ 6
[7]	P Q R S 7	7	P Q R S Ş ß 7
	p q r s 7		p q r s ş ß 7
[8]	T U V 8	8	T U Û Ü Ů Ű Ų Ŵ V 8
	t u v 8		t u û ü ŭ ű ų ŵ v 8
[9]	W X Y Z 9	9	W Ŵ X Y Ŷ Z 9
	w x y z 9		w ŵ x y ŷ z 9
[0]	Space ! ? " ' ; , + = < > 0	0	Space ! ? " ' ; , + = < > 0
[#]	\$ % & @ € £	#	\$ % & @ € £

- For each key, the upper row shows the characters entered in uppercase mode, and the lower row shows the characters entered in lowercase mode.
- Press [✕] before or after entering a character to change between uppercase and lowercase.
- Pressing a key repeatedly will cycle through the characters associated with that key. For example, to enter the letter "C" in Latin Mode, press [2] 3 times.
- Characters that are entered using the [#] key (for example, "\$") cannot be entered when searching the phonebook.
- The illustrations of the keys in the table may differ in appearance from the actual keys on the telephone.

## 5.1 Character Mode Table

### Suffix: NE / X / SX

Keys	ABC (Latin)	0-9 (Numeric)	ABΓ (Greek)	RřĀ (Extended 1)	Sśš (Extended 2)
[1]	Space # & ' ( ) ✕ , - . / 1	1	Space # & ' ( ) ✕ , - . / 1		
[2]	A B C 2	2	A B Γ 2	A À Á Â Ã Ä Å Æ B C Ç 2	A Á Â Ã Ä Å B C Č Ć 2
	a b c 2		α β γ 2	a à á â ã ä å æ b c ç 2	a á â ã ä å b c č ċ 2
[3]	D E F 3	3	Δ E Z 3	D Đ E È É Ê Ë Ì Í Î Ï 3	D Ď E Ě Ė Ę F 3
	d e f 3		δ ε ζ 3	d ð e è é ê ë ì í î ï 3	d ě e ě ė ę f 3
[4]	G H I 4	4	H Θ I 4	G Ğ H I Ĳ Ĵ Ķ Ĺ Ļ 4	G H Í 4
	g h i 4		η θ ι 4	g ģ h i ĳ ĵ ķ ģ Ļ 4	g h í 4
[5]	J K L 5	5	K Λ M 5	J K L 5	J K L Ł Ł Ľ 5
	j k l 5		κ λ μ 5	j k l 5	j k l ł ł ľ 5
[6]	M N O 6	6	N Ξ O 6	M N Ñ O Ò Ó Ô Õ Ö Ø 6	M N Ń Ņ O Ó Ő Œ 6
	m n o 6		ν ξ ο 6	m n ñ o ò ó ô õ ö ø œ 6	m n ń ņ o ó ő Œ 6
[7]	P Q R S 7	7	Π Ρ Σ 7	P Q R S Š Œ 7	P Q R Ř Ŕ Š Š 7
	p q r s 7		π ρ σ 7	p q r s š Œ 7	p q r ř ŕ š š 7
[8]	T U V 8	8	Τ Υ Φ 8	T U Û Ü Ü Ů Ű V 8	T Ţ Ť U Ú Ŭ Ů V 8
	t u v 8		τ υ φ 8	t u ù ú û ü ů v 8	t ț ț u ú ŭ ů v 8
[9]	W X Y Z 9	9	Χ Ψ Ω γ 9	W Ŵ X Y Ŷ Z 9	W X Y Ÿ Ý Z Ž Ž 9
	w x y z 9		χ ψ ω γ 9	w ŵ x y ŷ z 9	w x y ÿ ý z ž ž 9
[0]	Space ! ? " ' ; : + = < > 0	0	Space ! ? " ' ; : + = < > 0		
[#]	\$ % & @ € £	#	\$ % & @ € £		

- For each key, the upper row shows the characters entered in uppercase mode, and the lower row shows the characters entered in lowercase mode.
- Press ✕ before or after entering a character to change between uppercase and lowercase.
- Pressing a key repeatedly will cycle through the characters associated with that key. For example, to enter the letter "C" in Latin Mode, press [2] 3 times.
- Characters that are entered using the [#] key (for example, "\$") cannot be entered when searching the phonebook.
- The illustrations of the keys in the table may differ in appearance from the actual keys on the telephone.

## Suffix: RU

Keys	АБВ (Cyrillic)	0-9 (Numeric)	ABC (Latin)	ÀÁÂ (Extended 1)	ŠšŠ (Extended 2)
[1]	А Б В Space G + - / = < > 1	1	Space # & ' ( ) * , - . / 1		
	а б в Space G + - / = < > 1				
[2]	Г Д Е Ё 2	2	ABC 2	À Á Â Ã Ä Å Æ B C Ç 2	Š š Š Š š Š Š Š Š Š Š Š 2
	г д е ё 2		abc 2	à á â ã ä å æ b c ç 2	š š š š š š š š š š š š 2
[3]	Ж З И Й 3	3	DEF 3	Đ Ď Ê Ë Ì Í Î Ï Ñ 3	Đ Ď Ê Ë Ì Í Î Ï Ñ 3
	ж з и й 3		def 3	đ ě ê ë ì í î ï ñ 3	d ě e e e e e e f 3
[4]	К Л М 4	4	GHI 4	Ğ Ğ Ĩ ĩ İ İ İ İ İ 4	G Ĩ Ĩ Ĩ Ĩ Ĩ Ĩ Ĩ 4
	к л м 4		ghi 4	ğ ğ ĩ ĩ ĩ ĩ ĩ ĩ ĩ 4	g ĩ ĩ ĩ ĩ ĩ ĩ ĩ 4
[5]	НО П 5	5	JKL 5	JKL 5	JKL Ĺ Ĺ Ĺ Ĺ 5
	н о п 5		jkl 5	jkl 5	jkl ĺ ĺ ĺ ĺ 5
[6]	Р С Т 6	6	MNO 6	MN Ñ O Ò Ó Ô Õ Ö Ø 6	MN Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń 6
	р с т 6		mno 6	m n ñ o ò ó ô õ ö ø æ 6	m n ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń Ń 6
[7]	У Ф Х 7	7	PQRS 7	PQRS Š š Š Š 7	PQR Ř Ř Š Š Š Š 7
	у ф х 7		pqrs 7	p q r s š š š š 7	p q r ř ř š š š š 7
[8]	Ц Ч Ш 8	8	TUV 8	TU Û Ü Ú Û Ü V 8	T Ť Ť U Ú Û Ü Ů V 8
	ц ч ш 8		tuv 8	t u ù ú û ü v 8	t ŧ ŧ u ú ü ü ů v 8
[9]	Щ Ъ Ы Ь Space ! ? " 9	9	WXYZ 9	W Ŵ X Y Ŷ Z 9	W X Y Ÿ Ý Z Ž Ž Ž Ž 9
	щ ъ ы ь Space ! ? " 9		wxyz 9	w ŵ x y ŷ z 9	w x y ÿ ý z ž ž ž ž 9
[0]	Э Ю Я Space . , ' : ; ( ) 0	0	Space ! ? " : ; + = < > 0		
	э ю я Space . , ' : ; ( ) 0				
[#]	\$ % & @ € £ Ğ € Ĩ İ Ÿ #	#	\$ % & @ € £		
	\$ % & @ € £ ğ ı ĩ ŷ #				

- For each key, the upper row shows the characters entered in uppercase mode, and the lower row shows the characters entered in lowercase mode.
- Press **⇧** before or after entering a character to change between uppercase and lowercase.

## 5.1 Character Mode Table

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- Pressing a key repeatedly will cycle through the characters associated with that key. For example, to enter the letter "C" in Latin Mode, press **2** 3 times.
- Pressing a key repeatedly will cycle through the characters associated with that key. For example, to enter the letter "Е" in Cyrillic Mode, press **2** 3 times.
- Characters that are entered using the **#** key (for example, "\$") cannot be entered when searching the phonebook.
- The illustrations of the keys in the table may differ in appearance from the actual keys on the telephone.

## 5.2 Character Table for Administrator Password

Keys	<b>ABC</b> (Latin)	<b>123</b> (Numeric)
<b>[1]</b>	# & ' ( ) ✖ , - . / ~ 1	1
<b>[2]</b>	A B C 2	2
	a b c 2	
<b>[3]</b>	D E F 3	3
	d e f 3	
<b>[4]</b>	G H I 4	4
	g h i 4	
<b>[5]</b>	J K L 5	5
	j k l 5	
<b>[6]</b>	M N O 6	6
	m n o 6	
<b>[7]</b>	P Q R S 7	7
	p q r s 7	
<b>[8]</b>	T U V 8	8
	t u v 8	
<b>[9]</b>	W X Y Z 9	9
	w x y z 9	
<b>[0]</b>	Space ! ? " ' : ; + = < >   0	0
<b>[#]</b>	\$ % & @ [ \ ] ^ _ ` { }	#

- For each key, the upper row shows the characters entered in uppercase mode, and the lower row shows the characters entered in lowercase mode.
- Press **[✖]** before or after entering a character to change between uppercase and lowercase.
- Pressing a key repeatedly will cycle through the characters associated with that key. For example, to enter the letter "C" in Latin Mode, press **[2]** 3 times.

## 5.3 Settings Displayed in the Menu

### KX-HDV330 / KX-HDV340

Mode	Menu Items
During a conversation	<ul style="list-style-type: none"> <li>• Call History</li> <li>• Phonebook</li> <li>• Flash/Recall</li> <li>• Park<sup>*1</sup></li> <li>• Call Center/Call Centre<sup>*1</sup></li> </ul>
With a call on hold in a Call Park zone	<ul style="list-style-type: none"> <li>• Park<sup>*1</sup></li> </ul>
When the phonebook is displayed	<ul style="list-style-type: none"> <li>• Lock Phonebook</li> <li>• Unlock Phonebook</li> </ul>

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

### KX-HDV430

Mode	Menu Items
During a voice call	<ul style="list-style-type: none"> <li>• Call History</li> <li>• Phonebook</li> <li>• Flash/Recall</li> <li>• Park<sup>*1</sup></li> <li>• Call Center/Call Centre<sup>*1</sup></li> <li>• Network Camera</li> </ul>
During a video call	<ul style="list-style-type: none"> <li>• Call History</li> <li>• Phonebook</li> <li>• Flash/Recall</li> <li>• Park<sup>*1</sup></li> <li>• Call Center/Call Centre<sup>*1</sup></li> <li>• Line Status</li> <li>• Blind<sup>*1</sup></li> <li>• Voice Call</li> <li>• Picture Quality</li> <li>• PiP</li> </ul>
While viewing a Network Camera video feed	<ul style="list-style-type: none"> <li>• Camera Registration</li> <li>• Camera Selection</li> <li>• Preset</li> <li>• Favourites/Favorites</li> <li>• Camera Settings</li> </ul>

Mode	Menu Items
During a call with a Communication Camera	<ul style="list-style-type: none"><li>• Call History</li><li>• Phonebook</li><li>• Flash/Recall</li><li>• Park<sup>*1</sup></li><li>• Call Center/Call Centre<sup>*1</sup></li><li>• Line Status</li><li>• Blind<sup>*1</sup></li></ul>
With a call on hold in a Call Park zone	<ul style="list-style-type: none"><li>• Park<sup>*1</sup></li></ul>
When the phonebook is displayed	<ul style="list-style-type: none"><li>• Lock Phonebook</li><li>• Unlock Phonebook</li></ul>

<sup>\*1</sup> This item is displayed only when the feature is enabled. Contact your administrator for further information.

## 5.4 Specifications

### KX-HDV330

Item			Specifications
Power Supply			AC adaptor / PoE
PoE (Power-over-Ethernet)			IEEE 802.3af Class 3
Power Consumption	PoE	Standby	<ul style="list-style-type: none"><li>• approx. 2.7 W (ECO mode off)</li><li>• approx. 2.2 W (ECO mode on)</li></ul>
		Talking	<ul style="list-style-type: none"><li>• approx. 3.5 W (ECO mode off)</li><li>• approx. 2.8 W (ECO mode on)</li></ul>
	AC Adaptor	Standby	<ul style="list-style-type: none"><li>• approx. 2.6 W (ECO mode off)</li><li>• approx. 1.9 W (ECO mode on)</li></ul>
		Talking	<ul style="list-style-type: none"><li>• approx. 3.4 W (ECO mode off)</li><li>• approx. 2.7 W (ECO mode on)</li></ul>
Maximum Power Consumption			Approx. 4.4 W
Operating Environment			0 °C (32 °F) to 40 °C (104 °F)
Ethernet Port			LAN: 1 (RJ45), PC: 1 (RJ45)
Ethernet Interface			10Base-T / 100Base-TX / 1000Base-T (Auto / 100MB-FULL / 100MB-HALF / 10MB-FULL / 10MB-HALF) Auto MDI / MDIX
Wideband Codec			G.722
Narrowband Codec			G.711a-law / G.711μ-law / G.729a
Multiple Line			12
LCD Display			4.3-inch color TFT with touch panel 16772216 colors (Full color)
LCD Size			480 × 272 pixels
LCD Backlight			8 levels
VoIP Connection Method			SIP
Speaker			1
Microphone			1
Headset Jack			1 (RJ9)
EHS Jack			1 (ø3.5 mm [1/8 in], for EHS only)
Bluetooth			1 (Class 1) Frequency Band: 2.402 GHz to 2.480 GHz Maximum Power Output: 10 mW



Item		Specifications
Dimensions (Width × Depth × Height; stand attached)	"High" position	195 mm × 190 mm × 209 mm (7.7 in × 7.5 in × 8.3 in)
	"Low" position	195 mm × 184 mm × 188 mm (7.7 in × 7.3 in × 7.4 in)
Weight (with handset, handset cord and stand)		850 g (1.87 lb)

**KX-HDV340**

Item			Specifications
Power Supply			AC adaptor / PoE
PoE (Power-over-Ethernet)			IEEE 802.3af Class 3
Power Consumption	PoE	Standby	<ul style="list-style-type: none"><li>• approx. 2.7 W (ECO mode off)</li><li>• approx. 2.2 W (ECO mode on)</li></ul>
		Talking	<ul style="list-style-type: none"><li>• approx. 3.5 W (ECO mode off)</li><li>• approx. 2.8 W (ECO mode on)</li></ul>
	AC Adaptor	Standby	<ul style="list-style-type: none"><li>• approx. 2.6 W (ECO mode off)</li><li>• approx. 1.9 W (ECO mode on)</li></ul>
		Talking	<ul style="list-style-type: none"><li>• approx. 3.4 W (ECO mode off)</li><li>• approx. 2.7 W (ECO mode on)</li></ul>
Maximum Power Consumption			Approx. 4.4 W
Operating Environment			0 °C (32 °F) to 40 °C (104 °F)
Ethernet Port			LAN: 1 (RJ45), PC: 1 (RJ45)
Ethernet Interface			10Base-T / 100Base-TX / 1000Base-T (Auto / 100MB-FULL / 100MB-HALF / 10MB-FULL / 10MB-HALF) Auto MDI / MDIX
Wideband Codec			G.722
Narrowband Codec			G.711a-law / G.711μ-law / G.729a
Multiple Line			4
LCD Display			4.3-inch color TFT with touch panel 16772216 colors (Full color)
LCD Size			480 × 272 pixels
LCD Backlight			8 levels
VoIP Connection Method			SIP
Speaker			1
Microphone			1
Headset Jack			1 (RJ9)
EHS Jack			1 (ø3.5 mm [1/8 in], for EHS only)

## 5.4 Specifications

Item		Specifications
Bluetooth		1 (Class 1) Frequency Band: 2.402 GHz to 2.480 GHz Maximum Power Output: 10 mW
Dimensions (Width × Depth × Height; stand attached)	"High" position	195 mm × 190 mm × 209 mm (7.7 in × 7.5 in × 8.3 in)
	"Low" position	195 mm × 184 mm × 188 mm (7.7 in × 7.3 in × 7.4 in)
Weight (with handset, handset cord and stand)		850 g (1.87 lb)

### KX-HDV430

Item			Specifications
Power Supply			AC adaptor / PoE
PoE (Power-over-Ethernet)			IEEE 802.3af Class 3
Power Consumption	PoE	Standby	<ul style="list-style-type: none"><li>• approx. 3.9 W (ECO mode off)</li><li>• approx. 3.2 W (ECO mode on)</li></ul>
		Voice Call	<ul style="list-style-type: none"><li>• approx. 4.9 W (ECO mode off)</li><li>• approx. 4.1 W (ECO mode on)</li></ul>
		Video Call	<ul style="list-style-type: none"><li>• approx. 5.6 W (ECO mode off)</li><li>• approx. 4.9 W (ECO mode on)</li></ul>
	AC Adaptor	Standby	<ul style="list-style-type: none"><li>• approx. 3.9 W (ECO mode off)</li><li>• approx. 3.2 W (ECO mode on)</li></ul>
		Voice Call	<ul style="list-style-type: none"><li>• approx. 4.8 W (ECO mode off)</li><li>• approx. 3.9 W (ECO mode on)</li></ul>
		Video Call	<ul style="list-style-type: none"><li>• approx. 5.5 W (ECO mode off)</li><li>• approx. 4.7 W (ECO mode on)</li></ul>
Maximum Power Consumption			Approx. 6.1 W
Operating Environment			0 °C (32 °F) to 40 °C (104 °F)
Ethernet Port			LAN: 1 (RJ45), PC: 1 (RJ45)
Ethernet Interface			10Base-T / 100Base-TX / 1000Base-T (Auto / 100MB-FULL / 100MB-HALF / 10MB-FULL / 10MB-HALF) Auto MDI / MDIX
Wideband Codec			G.722
Narrowband Codec			G.711a-law / G.711μ-law / G.729a
Video Codec			H.264
Multiple Line			16
LCD Display			4.3-inch color TFT with touch panel 16772216 colors (Full color)

Item		Specifications
LCD Size		480 × 272 pixels
LCD Backlight		8 levels
VoIP Connection Method		SIP
Speaker		1
Microphone		1
Camera		1
Headset Jack		1 (RJ9)
EHS Jack		1 (ø3.5 mm [1/8 in], for EHS only)
Bluetooth		1 (Class 1) Frequency Band: 2.402 GHz to 2.480 GHz Maximum Power Output: 10 mW
Compatible Communication Camera		KX-NTV150 / KX-NTV160
Dimensions (Width × Depth × Height; stand attached)	"High" position	195 mm × 190 mm × 209 mm (7.7 in × 7.5 in × 8.3 in)
	"Low" position	195 mm × 184 mm × 188 mm (7.7 in × 7.3 in × 7.4 in)
Weight (with handset, handset cord and stand)		870 g (1.92 lb)

**KX-HDV20**

Item		Specifications
Power Supply <sup>*1</sup>		Power is supplied from the KX-HDV330 / KX-HDV340 / KX-HDV430.
Power Consumption		Stand-by: approx. 0.5 W
Maximum Power Consumption		Approx. 1.5 W
Operating Environment		0 °C (32 °F) to 40 °C (104 °F)
LCD Display		Monochrome graphical
LCD Size		160 × 384 pixels, 12 lines
LCD Backlight		6 levels
Dimensions (Width × Depth × Height; stand attached)	"High" position	110 mm × 175 mm × 178 mm (4.3 in × 6.9 in × 7.0 in)
	"Middle" position	110 mm × 176 mm × 154 mm (4.3 in × 6.9 in × 6.1 in)
	"Low" position	110 mm × 176 mm × 121 mm (4.3 in × 6.9 in × 4.8 in)
Weight (with stand)		430 g (0.95 lb)

<sup>\*1</sup> The KX-HDV20 can be used only when the KX-HDV330 / KX-HDV340 / KX-HDV430 is receiving power from the optional AC adaptor.

## 5.5 Troubleshooting

### General Use



Issue	Possible Cause	Solution
The display is blank.	The unit is not receiving power.	The unit is not designed to function when there is a power failure. Make sure that the device supplying PoE is receiving power and that the Ethernet cable is properly connected. (If you are using a PoE hub, the number of devices that you can connect simultaneously is limited by the amount of power supplied by the hub.) If an AC adaptor is connected, confirm that the AC adaptor is connected and receiving power.
The unit is not performing properly.	Cables or cords are not connected properly.	Check all connections.
	Your connection settings are incorrect.	<ul style="list-style-type: none"> <li>• Consult your administrator to confirm that your settings are correct.</li> <li>• If the problem persists, consult your dealer.</li> </ul>
	An error has occurred.	Restart the unit.
I cannot hear a dial tone.	—	Confirm that the LAN cable is properly connected.
I cannot cancel the phonebook lock.	The password you entered was incorrect.	Enter the correct password.
I forgot my password.	—	Consult your administrator or dealer.
The date and time are not correct.	—	Adjust the date and time of the unit.
The Message/Ringer lamp is lit.	You received a voice message while you were on the phone or away from your desk.	Check the voice message.
The KX-HDV20 will not turn on.	The KX-HDV330 / KX-HDV340 / KX-HDV430 is receiving power via Power-over-Ethernet (PoE).	Connect the KX-HDV330 / KX-HDV340 / KX-HDV430 to an AC power outlet using the optional AC adaptor.

**Making and Receiving Calls**

Issue	Possible Cause	Solution
I cannot make calls.	The phone number was entered incorrectly.	<ul style="list-style-type: none"><li>• Confirm that you have entered the phone number of the other party correctly.</li><li>• Consult your administrator or dealer.</li></ul>
	The phonebook list is being imported or exported.	<ul style="list-style-type: none"><li>• Wait a few minutes for the operation to complete.</li><li>• Confirm with your administrator or dealer.</li></ul>
I cannot make long distance calls.	Your telephone service does not allow you to make long distance calls.	Make sure that you have subscribed to your telephone company's long distance service.
The unit does not ring when a call is received.	The ringer is turned off.	Press the [+] volume key while a call is being received, or change the ringer volume setting.
While talking to an outside party, the line is disconnected.	Your phone system/service may impose a time limit on outside calls.	Consult your dealer to extend the time limit, if necessary.

## 5.5 Troubleshooting

### Sound Quality

Issue	Possible Cause	Solution
The other party cannot hear my voice.	The unit is muted.	Press  /  / <b>MUTE/AUTO ANS</b> to turn off the mute feature.
	If you are using the speakerphone, objects may be obstructing the microphone.	Do not obstruct the unit's microphone during calls. Keep your hands, as well as common objects such as folders, cups, and coffee pots away from the unit during calls.
Sound cuts out; I can hear myself through the speaker.	You are too far away from the microphone.	Try speaking closer to the microphone.
	The environment is not suited to speakerphone calls.	<ul style="list-style-type: none"><li>• Do not use the unit within 2 m (6 ft 7 in) of projectors, air conditioning devices, fans, or other audible or electrical noise emitting devices.</li><li>• If using the unit in a room with windows, close the curtains or blinds to prevent echoes.</li><li>• Use the unit in a quiet environment.</li></ul>
	The unit was moved during a call.	Do not move the unit while on a call.
	Objects are obstructing the microphone.	Do not obstruct the unit during calls. Keep your hands, as well as common objects such as folders, cups, and coffee pots away from the unit during calls.
	The other party is using a half-duplex phone.	If the other party is using a half-duplex phone, sound may cut out occasionally during calls. For best performance, the other party should use a full-duplex phone.

### Phonebook List

Issue	Possible Cause	Solution
I cannot add or edit entries to the phonebook list.	The phonebook list is full.	Delete any unnecessary entries. The maximum number of entries in the phonebook list is 2500.

### Bluetooth Headset

Issue	Possible Cause	Solution
I cannot have a conversation using the Bluetooth headset.	The headset is not registered.	Make sure that the headset is properly registered to the unit.
	An EHS headset is connected.	Remove the EHS headset from the headset jack. Priority is given to the EHS headset when both are connected.
	The headset is not charged.	Make sure that the headset is properly charged by following the instructions in the headset's documentation.

**Video display screen (KX-HDV430 only)**

Issue	Possible Cause	Solution
The operation icons are not displayed.	—	Tap the screen.
Noise appears in the video feed.	—	Change the following video settings for the other party. <ul style="list-style-type: none"> <li>• Image Size</li> <li>• Bit Rate</li> </ul>

**Video call (KX-HDV430 only)**

Issue	Possible Cause	Solution
I made a video call, but the other party is not displayed on my screen.	Video calls are not supported on the other party's phone.	Make a voice call.

**Network Camera (KX-HDV430 only)**

Issue	Possible Cause	Solution
I cannot connect to a Network Camera.	No Network Cameras are registered.	Register a Network Camera.
	The settings for the Network Camera are not configured correctly.	Check whether the settings are correct, and then configure the settings again as necessary.
Some or all of the controls are unavailable.	The Network Camera you are connected to does not support these functions.	Refer to the documentation of the Network Camera, or consult your administrator.
	Access limitations have been set for the Network Camera.	Consult the Network Camera administrator.

**Communication Camera (KX-HDV430 only)**

Issue	Possible Cause	Solution
I cannot connect to a Communication Camera.	No Communication Cameras are registered.	Register a Communication Camera.
	The settings for the Communication Camera are not configured correctly.	Check whether the settings are correct, and then configure the settings again as necessary.
The video call screen is displayed.	You made a call by dialing a phone number.	Select a Communication Camera from the list of registered Communication Cameras, and then make a call.

## 5.6 Error Messages

During operation, error messages might appear on the unit.

The following table lists these messages and possible causes and solutions.

Error Message	Possible Cause	Solution
<b>Error:001</b> <b>Check LAN cable.</b>	The LAN cable is not connected.	Check all connections.
<b>Error:002</b> <b>IP Address</b> <b>Collision</b>	The unit's network settings are incorrect.	Consult your system administrator or dealer.
<b>Error:002</b> <b>IP Address</b>		
<b>Error:003</b> <b>Not Registered</b>	Failed to register to SIP server.	Consult your system administrator or dealer.
<b>Memory Full</b>	The Phonebook is full and cannot store the new item.	Remove unnecessary data in the Phonebook and try again.
<b>No Entries</b>	When trying to view the Phonebook: No items have been stored.	Store a new item in your local phonebook.
	When trying to view the Incoming or Outgoing Call Log: No logs have been stored.	
<b>Need Repair</b>	Device fault.	Contact your phone system dealer/ service provider.
<b>Phonebook Error</b>	The memory became full during a phonebook download.	<ul style="list-style-type: none"> <li>Remove unnecessary data in the phonebook, or consult your administrator regarding the number of items being downloaded.</li> <li>This message disappears if you access the phonebook.</li> </ul>



## 5.7 Revision History

### **Document Version 2017-08**

**(Software File Version 06.000 or later)**

#### **New Contents**

- Network Settings—Network Test

### **Document Version 2017-11**

**(Software File Version 07.000 or later)**

#### **New Contents**

- Talk Option—Equalizer

### **Document Version 2018-10**

**(Software File Version 08.000 or later)**

#### **New Contents**

- KX-HDV340 is added.

### **Document Version 2019-02**

**(Software File Version 08.100 or later)**

#### **Change Contents**

- 2.4.6 Switching the Display by Pressing /HOME (For KX-HDV340)

# 5.8 Wall mounting template

1. Drive the screws into the wall as indicated.
2. Hook the unit onto the screw heads.

### Note

- Make sure to set the print size to correspond with the size of this page. If the dimensions of the paper output still deviate slightly from the measurements indicated here, use the measurements indicated here.

## 5.8.1 KX-HDV330 / KX-HDV340 / KX-HDV430, optionally with 1 attached KX-HDV20



\*1 One screw here (for KX-HDV20)

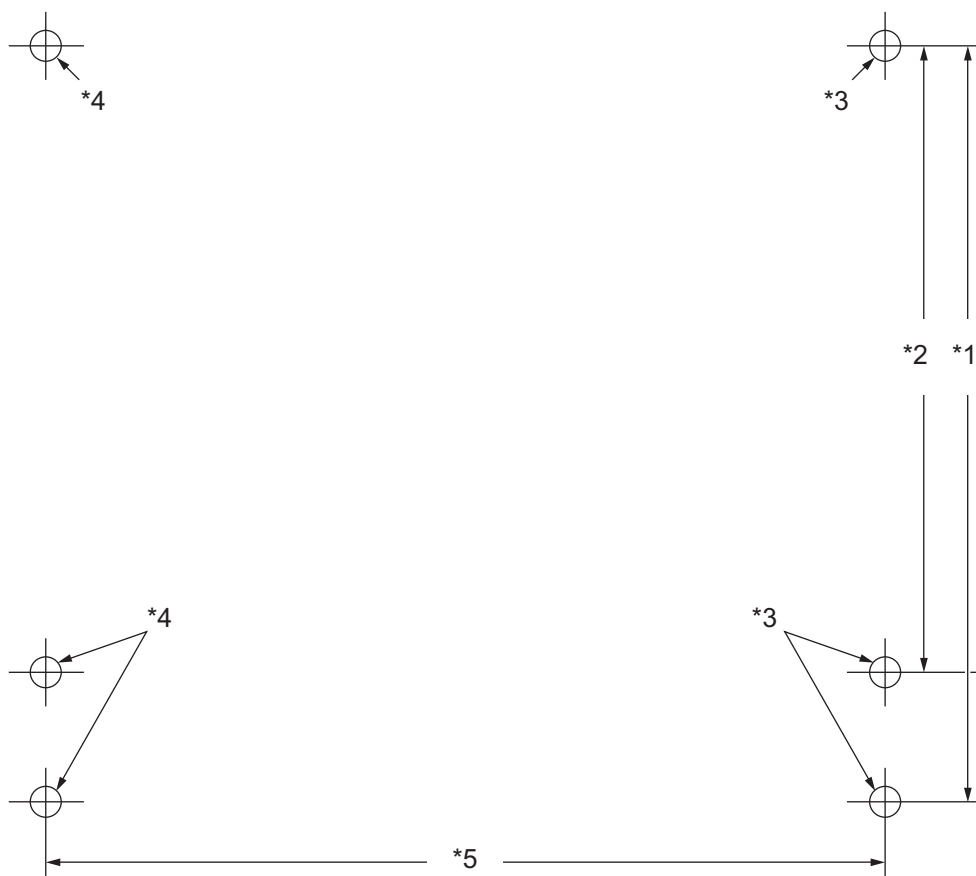
\*2 One screw here (for KX-HDV330 / KX-HDV340 / KX-HDV430)

\*3 100 mm (3 15/16 in)

\*4 83 mm (3 1/4 in)

\*5 152 mm (6 in)

## 5.8.2 For mounting 2 or more KX-HDV20 units



\*1 100 mm (3 15/16 in)

\*2 83 mm (3 1/4 in)

\*3 One screw here (for KX-HDV20 to mount)

\*4 One screw here (previously mounted KX-HDV20)

\*5 111 mm (4 3/8 in)

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