

USER GUIDE

7inch Hands-free type



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1. Cautions for safety

For safe use, please stick to the following cautions.

- Please, save this manual after reading these instructions carefully.
- This Cautions for Safety may include items that are not contained in specifications of the product that consumer purchases.
- If you need assistance with the set-up or operation, please contact with A/S center.
- Read and understand all instructions to set up rightly.

The important marks in the manual.

To help our customers to understand this manual, to prevent any personal injury or property damage, some marks are used in the manual. The marks and the drawing signs are below. Please, understand the marks before reading the manual.

The meaning of the drawing signs.

 Sign to show what not to do	 Mishandling the device with ignoring this sign may result in serious injury or death.
 Mishandling the device with ignoring this sign may result physical injury or material damage.	
 Sign to tell you that you should follow the instructions.	 Sign to tell you that you need more attention including high voltages, electric shock, danger, warning
 Sign to tell you that you can't disassemble this unit.	 Sign to tell you that you must unplug the unit.

Caution

Cautions for set-up



- The law limits distributing the power lines to an authorized person from government.
- *The work from an unauthorized person cause fire or electric shock.*
- Place this unit securely on a stable surface. Serious damage and/or injury may result if the unit falls.
- Do not set up this unit near the leaking place because it may expose you to dangerous voltages or other risks.
- Even if your product is water proof, do not install it slanted place of water leakage, which can a short circuit.



- The work of distributing wires needs skills and experiences. So please, for assistance, contact your dealer or call service center.
- The communication lines should be built in being distant from the power source. This may result in the risk of fire, electric shock and communication disorder.
- Setting the communication lines in a high humid place such as outside without any protection from rain causes the communication disorder.
- Keep the hook at the wall-mounted device safe. The hook may cause the physical injury.
- Think about the thickness and quality of wall material. The unqualified material may make the device fall.



- Set the device of the wall-mounted type not to fall. Falling from an earthquake causes personal injury.

Cautions for Repairs and Maintenance



- Keep the inside of the device clean. Having the dust inside without any cleaning for a long time causes the fire.
- *If necessary, contact your dealer or service center to get cleaning service.*



- Unplug this device when you want to check the inside. If there is no plug, please, turn off the circuit breaker.
- Unplug this device when you try to move it to another place. If the electric line is connected inside of the unit, please contact your dealer or service center.



- Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning

Warning

Warnings for Usage

- Do not install this unit near the water and dust, for example, in a bathroom or near the washing machine.
 - It caused fire and electric shock.
- Do not install this unit near the fire, for example, near kitchen sink, heater or the like.
- Do not install near the noxious gas such as Hydrogen Sulfide, metal powder and the like.
- Do not install near the water and chemicals.
- Do not give any damage, break and modify the plug. overloading, heating, pulling causes the damage.
- Do not place the plug near the heater. The damaged code causes fire and electric shock.
 - Do not pull the power code when unplugging.
- The damaged code causes fire and electric shock. Must pull with plug. Do not touch with wet hands.
 - It causes the electric shock.
- Do not use any other voltage, except the marked regular voltage.
- Do not install the units at the leaking place if it doesn't have any waterproof mark.
 - Do not install the unit when the power is on.
- Install the circuit breaker after checking the safety such as electric shock and leakage.
 - Turn off the power before you install or A/S



- Check the suitability of the lines for installing when you use the exiting lines.
- Do the wiring work by using the designed material.
- Connect the electric wire with the designed ways and ground.
- Do not connect with any other devices except the designed devices to compose the system.



- Unplug electric wire and communication lines from the units before moving to another place.

Cautions for Use

- This unit is not designed for security purpose.
- Do not handle the unit with the wet hands.
- Do not place a pot with water or a small metal material on the units.
- Do not cover the ventilating opening or put any metal material in the units.
- During thunderstorms, avoid using this unit. There may be a remote risk of an electric shock from lightning.
- Do not modify the unit.
- Open the main gate after checking ID if the image and sound system do not work. Call A/S



- Do not disassemble the back and cabinet cover.

Cautions for Abnormality

- Change the damaged electric code.
- Unplug this unit from plug socket and refer servicing to an authorized service center when the following conditions occur:
 - If liquid has been spilled into the unit.
 - If the unit does not work normally by following the operating instructions.
 - If the unit exhibits a distinct change in performance.
 - If the unit has been dropped or physically damaged.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)



This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Caution

Safety Instructions, Warnings and Cautions of Each System

- Do not disassemble this unit at will as this device is composed by precision parts.
- Install the unit by following the set-up instructions of ALT.
- Do not touch or insert any foreign substances, for example, sticker, magnetic, opener and the like.
- Make U-type at the end of wires as the rain can effect on the system by following the wires during the rainy season.

Videophone

- Separate the AC/DC lines with the hook of the wall-mounted type when installing.
- Connect the lines after peeling the wires properly.
- Do not distribute signal line with AC line.
- Use the designed driver to connect the lines to terminal.
- Do not clean the LCD with the damp cloth for cleaning. Use the only dry and soft cloth.
- Do not install the main gate monitor at the leaking place.

Things You Need to Know

- This product is designed as a home videophone and cannot use continuously like monitor camera.
- If there is temperature difference between inner part of camera and surrounding, dew condensation occurs on camera lens and may disturb image. If dew condensation is removed from camera lens, image quality recovers.
- White LED light examination range is narrower than camera shot range at night, so there is less amount of light at night than day. So it is difficult to see the face in low illumination condition due to noise increase on screen, but it is not from defect.
- Monitor screen (liquid crystal panel) is not in defect when some pixels always light or black out.
- Please install monitor and camera over 5cm away. Also, avoid installing at a place with too much noise, because too much noise around camera causes phone call inferiority.
- Do not place an object within 20cm in front of monitor. It causes phone call inferiority, especially because microphone is installed at the top of monitor.
- If strong light such as sunlight flows into camera module, screen saturation (or strange mark) and image shaking might occur.
- This is not a defect, so please do not install camera where a direct ray of light do not flow if possible.

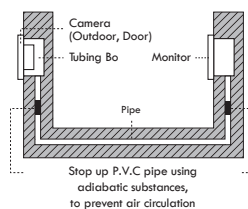
Cautions

- In some cases there is occurrence of product destruction, malfunction, noise mixing and picture quality deterioration due to mixing of other tool's induced voltage or thunder with communication wiring of monitor/camera, monitor/extended monitor.
- Do not wire with power line such as outdoor wiring or AC power, or phones and other tools.
- You cannot use it if you incorrectly wire the AC voltage between monitor/camera, monitor/extended monitor.
- Call the store or agency where you purchased this product and consult to solve the problem. Beware that unfixable damage might be caused due to authorizing AC voltage on communication wiring of monitor/camera, monitor/extended monitor.
- Do not ever disjoint this product. It may cause electrocution accident when touching high-voltage circuit inside this product.
- Outside power authorizing this product must be confirmed of product description and use rated voltage. Beware that if higher voltage is authorized, unfixable damage might be caused due to product destruction.
- Power must be connected to domestic voltage (product rated voltage) consent or interior wiring.
- If connected to other motive power or inverter-type power, product destruction, noise mixing, and picture distortion may occur.

- Do not drop this product. Glass is used for monitor and might break, or cause other circuit inferiority.
- In such case, immediately turn down the power switch, and call to consult agency or store in which this product was purchased.
- If installed near transmission antenna such as broadcasting station, electric wave may mix and cause picture distortion or voice mixing.
- Avoid installing near tools with strong electromagnetic waves such as microwaves and cell phones, or it may cause picture distortion.

Do not install monitor in following places.

- ① Above or around water heater, rice-cooker, heater
- ② Place exposed to direct rays of the sun
- ③ Place with temperature below 0°C such as cold store
- ④ Place with high humidity such as bathroom, washroom, heated room
- ⑤ Place with a lot of gas, dust, smoke
- ⑥ Dangerous place with sprays of water or chemicals

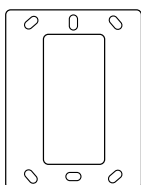


- Do not wipe with insecticide, drugs or chemicals such as thinner and alcohol, or it may damage the surface of this product.
- Beware of occurrence of image quality deterioration or malfunction from cause of humidity due to penetration of chemicals or water into camera's urea resins.
- As in the picture, it prevents temperature difference of camera (outside) and monitor (inside), and removes dew condensation caused by humidity of camera window.
- Camera must be installed when wall cement is completely dry.
- When product is installed in winter below -5°C, wait for approximately 2 hours to connect.
- Dew formation in monitor and camera due to temperature difference inside and outside may cause product defect.
- Avoid installing monitor and camera in place directly exposed to heat or where gas noxiousness is highly occurring.

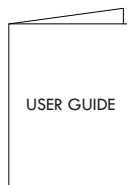
2. Package components list



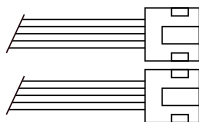
①



②



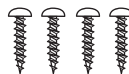
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④



⑤-1



⑤-2

① **Product**

② **Bracket**

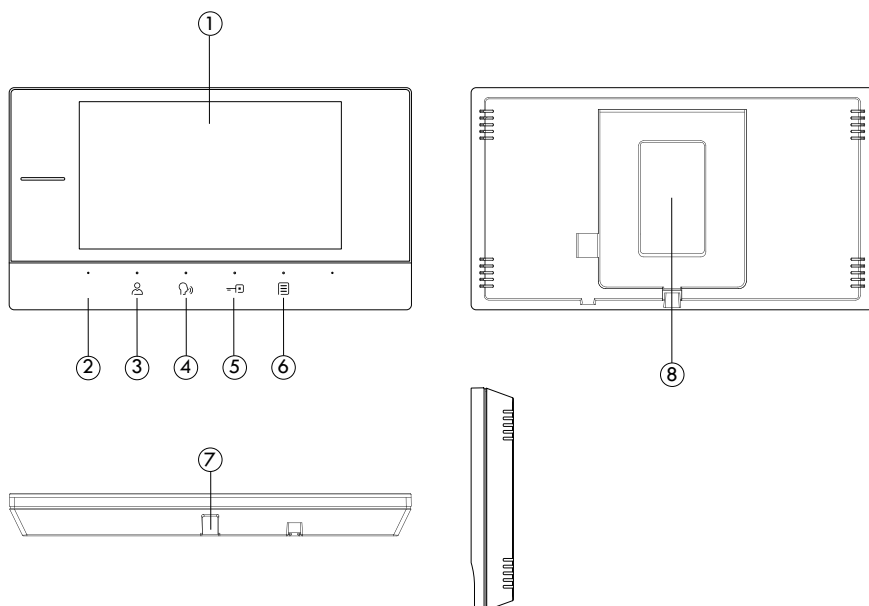
③ **User Guide**

④ **4P Connector cable - 2ea**

⑤-1. **Product fix screw** (SCREW BH 3x6L Machine) - **1ea**

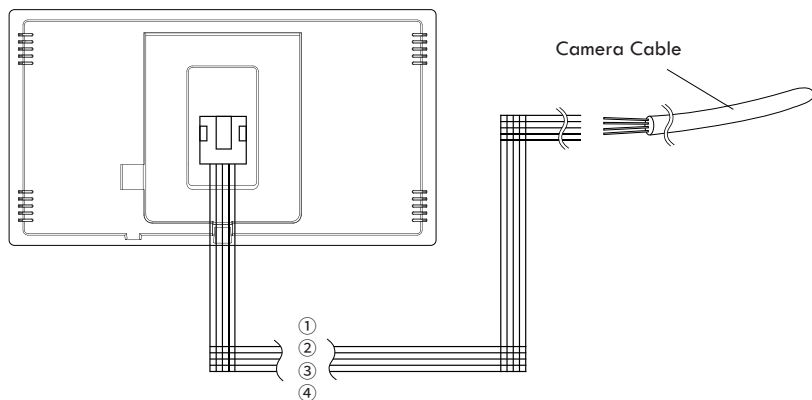
⑤-2. **Bracket fix screw** (SCREW BH 4x20L Tapping) - **4ea**

3. Components and Description



1. TFT LCD	Check your visitors
2. Power LED	The LED turns on when power is turned on
3. Monitoring (DOWN button)	Used to monitor the door camera's video image, and move within the menu feature (down / left)
4. Talk (SELECT button)	Used to talk with your visitor, and select within the menu feature
5. Door Open (UP button)	Used to open doors, and move within the menu feature (up / right)
6. Menu	Enter and exit menu
7. Power Switch	Used to turn on or off power
8. External connection socket	Used for product updates, door camera and additional videophone connections

4. Wiring



① VOICE ② GND ③ DC12V ④ VIDEO

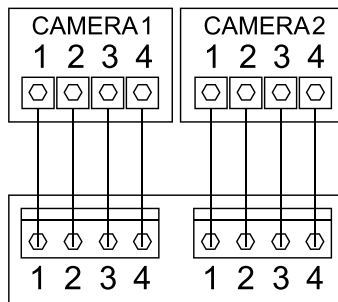
• Wiring with monitor cable

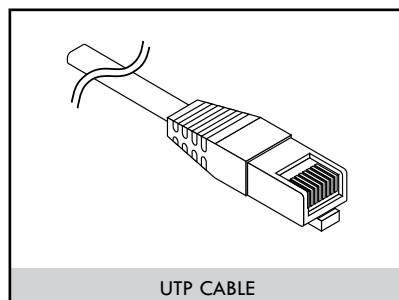
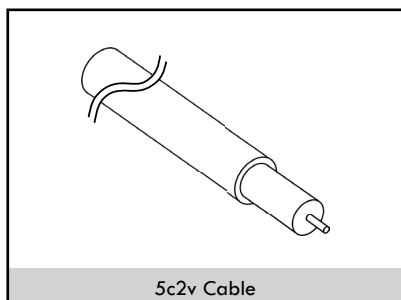
Used enclosed cable to insert pin, and extend connection with additional cable.

• Below is the wiring diagram of this product.

* Door Camera connector polarity

1. Red : Audio input 2. Blue : GND
3. Yellow : Power (+12V) 4. White : Video input





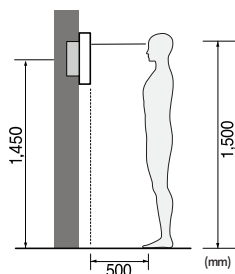
⚠ Cautions when wiring

- When wiring door camera to the video phone, the UTP cable mentioned below should be used.

* Door camera wiring

For video signal cable, we recommend coaxial cable (5c2v). When using UTP CABLE[CAT.5], connect the unused wire to GND.

5. Installation

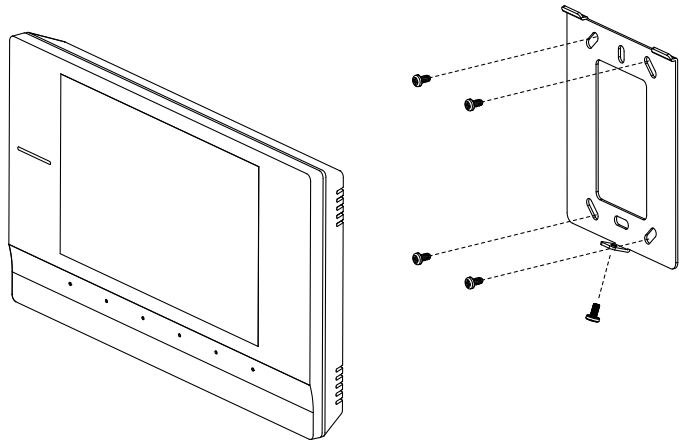


• Monitor installation location

Standard monitor installation height is about 1,500mm where screen center is at eye level.

In this case, wall-hanging metal center(center of piping) is 1,450mm above ground level.

- Standard installation in height



• Installation

Use enclosed screws and bracket to install on wall.
Make sure to fix the camera using the fixing hole.

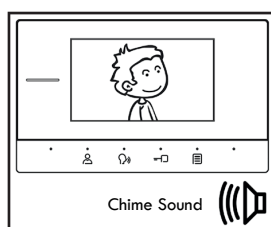
• Directly connecting cut-off power cord with power wire

- 1) Do not do such electric work on your own. Installing product in this way requires reliance on electric installation man with electric work license.
- 2) Insulate with insulating tape while cutting off power cord and connecting with power wire so electric wire metal does not expose. Contact between exposed electric wires cause fire or electric shock accident.
- 3) Such electric work requires connection after interception of supplied power.

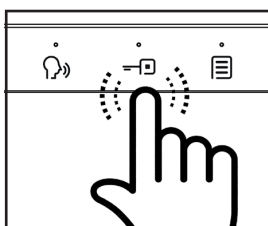
6. How to use

A. When visitor calls from front door camera (Call time : 60 seconds)

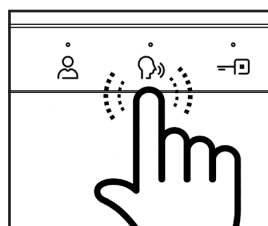
- When visitor calls from front door, the visitor appears on LCD screen with a chime.
- Press talk button to talk with your visitor, and press Door Open button to open door
(Door can be opened only during call)
- Press talk button again to end call and return to standby mode.



Chime / visitor appears



Door open button



Talk button / End talk

B. Front door Monitoring : Used to check the visitors on your front door.

To see video of camera No.1, press the monitoring button.

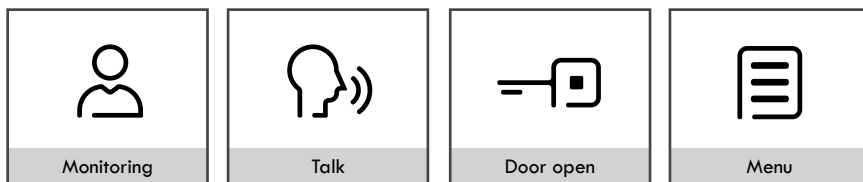
To turn the video of camera No.1 off, press the monitoring button once again.

To see video of camera No.2, press the Talk button.

To turn the video of camera No.2 off, press the talk button once again.

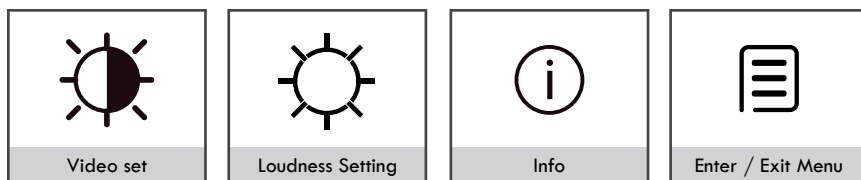
C. Product settings

* Use buttons below to set up product features using the menu, the button features are different according to menu status. Press Menu button with the video image turned on to set up product. Press Menu button during menu settings to exit menu settings.



- 1) **Monitoring button** : Move down / move left according to menu status
- 2) **Talk button** : Choose / select menu feature
- 3) **Door Open button** : Move up / move right according to menu status
- 4) **Menu button** : Enter and exit menu

Display Screen Menu



D. Video Set (Brightness / Contrast / Hue)

- Brightness : Control brightness level of video
- Contrast : Control contrast level of video
- Hue : Control hue level of video
- Reset : Return video setting values to default. (Brightness – 10, Contrast – 10, Hue – 10)
- EXIT : Move to upper level menu.

E. Etc. (Loudness setting of chime)

- Chime-Volume : Control volume level of door camera chime
(Control level is from 0~3, and factory level is 2)
 - EXIT : Move to upper level menu.
-

F. Info (Product Model, Program version, Camera Info)

- Model : Shows the model name of product
 - Ver. : Shows the current program version of product
 - Input : Shows the number of the currently displayed Door Camera with the video transmission type
(NTSC / PAL) Press menu button again to return to upper level menu.
-

G. Reset (Factory settings)

In standby mode, press Talk button and Door Open button together for 3 seconds.

This will reset the setting values below :

- Video image : Brightness – 10, Contrast – 10, Hue – 10
- Chime-Volume : Level 2

7. Specifications

Dimensions (mm)	239(W) x 132(H) x 25(D)
Power source	DC15V, 1A
Power consumption	Standby Mode :3 W In Use :8 W
LCD size	7inch TFT LCD
Mount type	Surface-mounted type
Wiring	4 wires
Distance	Door camera : 28m(0.5Ø) / 50m(0.65Ø) (*Optional) Interphone : 28m(0.5Ø) / 50m(0.65Ø)
Gross Weight	875(unit: g)
Operating temp.	-10°C~ +40°C

