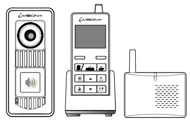
Sensing Innovation

Wireless Video Intercom

iVISION+

User Manual



ATTENTION:

Thank you for purchasing the iVISION+ wireless video intercom.
Due to the nature of radio frequency transmission technology, the transmission range, stability of images, video and sound of the iVISION+ can not be guaranteed at all times. Performance of this product depends on the environment where the product is being used. Please carefully read all included documents and test for feasibility before applying any damages to the installation environment. Keep documents safe for future reference.

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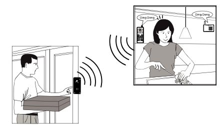
1. What you can do with iVISION+

1-1. Basic features of iVISION+

Knowing who is/was at your door

iVISION+ is a wireless video intercom system with multi unit expansion capability. When someone comes to your door and presses the button on the Door Camera Unit (Max. 2 units), the Handheld Monitor Unit (Max. 4 units) rings a chime and displays a video image from the camera. The Handheld Monitor Unit will store still images if no one was there to answer the call.



Replace an old door bell with video

If you already have a door bell with 10-24VAC/DC power supplied, enable Door Camera Unit for a browsing feature and actively view from a Handheld Monitor Unit anytime you like. Gateway Chime Unit adds a extra chime to let you know someone is at the door.

1-2. Expanding iVISION+ with an optional unit

Operate third party equipment (e.g. Door Lock)

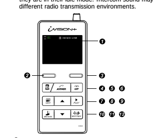
Connecting the OPTEX RC-20U to the iVISION+ enables "Open Door" function to operate third party equipment connected to the output relay on RC-20U.

Each unit is available for a purchase in a separate package.

2. Overview of iVISION+ devices

2-1. Handheld Monitor Unit (IVP-HU)

Please make sure that all the Handheld Monitor Units are on cradles and being charged while they are in their idle mode. Intercom sound may be unstable due to different locations having different radio transmission environments.



❶ Monitor Screen / Status Indicator
Monitor Screen shows video image from Door Camera Unit when, PUSH button on the IVP-DU is pressed. Status Indicator appears for 10 sec when any button is pressed.

IDLE MODE

20XX/XX/XX 11:59AM

- Current Date & Time
- Handheld Monitor Unit battery status
- Device ID (from 1 - 4)

BROWSING MODE

20XX/XX/XX 11:59AM

- Current Date & Time
- Door Camera Unit Low Battery Indicator
- Door Camera Unit Number (1 or 2)
- Handheld Monitor Unit battery status
- Signal status

IMAGE VIEWING MODE

REC 1/500 20XX-XX-XX 11:59:59AM

- Door Camera Unit Number (1 or 2)
- Captured Date & Time of viewing image
- Number / Number of stored images

❷ LEFT key
Used for confirmation of a command that appears on the lower left of the screen.
Press and hold for 2 sec to enter into SYSTEM SETUP menu.
(Push to talk in "Manual"Talk Switching Mode)

❸ RIGHT key
Used for confirmation of a command that appears on the lower right of the screen.

❹ OPEN DOOR

Enabled only when a third party Electronic Door Lock is connected to iVISION+ system via OPTEX RC-20U unit.

Select DOOR1 or DOOR 2 to activate output relay on designated RC-20U Unit.

❺ ANSWER
Press to answer a call from Door Camera Unit

❻ OFF
Press to terminate a session. Lights when charging.
Press and hold for 2 sec to ON/OFF the device.

Unit 1 must remain "ON" for automatic recording function to be enabled.

❼ SNAP
Press to capture an image while answering a call or when browsing a Door Camera Unit.

❽ UP ▲ ⓫ DOWN ▼
IDLE MODE: Select a volume of a ring tone < >
While Answer or Browse: Select a volume < >

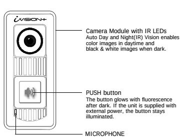
❾ PLAY
IDLE MODE: Press to enter IMAGE VIEWING MODE
Press and hold for 2 sec to delete all stored images.

❿ BROWSE
Enabled only when Door Camera Unit is powered from an external power source.
IDLE MODE: Press to enter BROWSING MODE
Select Door 1 or Door 2 to view.

⓬ BRIGHTNESS
While Answer or Browse: Press to set brightness < >

2-2. Door Camera Unit (IVP-DU)

The Door Camera Unit is a device that makes a call to the Handheld Monitor Units (IVP-HU) when the push button is pressed by a visitor. Each iVISION+ system can carry up to 2 units of Door Camera Units and each is identified by [1] or [2] on Handheld Monitor Units.

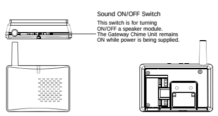


Please replace the batteries when Handheld Monitor Units show a low battery status indicator on upper middle of the screen. The sign indicates that Door Camera Unit has low power supply from current 3 AA batteries.

Caution
Do not mix old and new batteries or lithium and alkaline batteries in this unit. Leakage or possible explosion can occur and may lead to severe damage or injuries.

2-3. Gateway Chime Unit (IVP-GU)

The Gateway Chime Unit is a chime device for the iVISION+ and is required when expanding with OPTEX RC-20U. The unit enables the "Open door" function.



3. Before Using iVISION+

3-1. Getting ready with iVISION+ system

CHECK 1: Handheld Monitor Unit needs be charged before usage.

Before using iVISION+ system, the system must be installed accordingly to individual Installation Instruction. Once the installation is done, please make sure that each Handheld Monitor Unit is fully charged on a cradle. The OFF button lights up while charging until fully charged.

IDLE MODE

20XX/XX/XX 11:59AM

This indicator shows battery status on the Handheld Monitor Unit.

CHECK 2: Confirm devices registered in the system

To check number of iVISION+ devices in your system, press and hold LEFT function key for 2 sec to bring up a SYSTEM SETUP menu. Select "3 DEVICES IN NETWORK" by DOWN ▼ button and confirm OK.

REFERENCE
Installation Instruction of Handheld Monitor Unit [7-1 Confirming number of iVISION+ devices in a HOME ID]

CHECK 3: Identify the Main Handheld Unit

Identify the Main Handheld Unit by an indicator [1] on a screen.
The main handheld unit is the unit that captures and stores images while "Auto Recording Function"is activated.
The main unit must stay turned ON for the "Auto Recording Function"

IDLE MODE

20XX/XX/XX 11:59AM

This indicator No. 1 is shown on the main unit. 2,3 & 4 are sub units.

CHECK 4: Select a chime volume from the Handheld Monitor Unit

While in IDLE MODE, Use UP ▲ and DOWN ▼ keys to select a chime volume for each Handheld Monitor Unit in the iVISION+ system.

MUTE < < < < MAX

3-2. How to ON/OFF the system.

Pressing down the "OFF" button for more than 3 seconds, will turn ON/OFF the Handheld Monitor Unit.

Caution
At least one paired Handheld Monitor Unit needs to stay turned "ON" to respond to a call from the external Door Camera Unit. When the main Handheld Monitor Unit is turned off, the iVISION+ does not have the auto recording feature enabled.

3-3. Date and Time Setting

Please enter SYSTEM SETUP menu by pressing down on LEFT function key for more than 2 seconds. (Changes in SETUP can only be made on HU1)

❶ Select "1 DATE & TIME" by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm "OK"

❷ Within a DATE & TIME SETUP mode:

Use UP ▲ and DOWN ▼ keys to increase / decrease a value
Press PLAY to move to the next field.

❸ Complete the setup with OK.

3-4. Changing Volumes

IDLE MODE

Pressing Up ▲ and DOWN ▼ keys while on idle changes volume of the chime that ring out from the Handheld Monitor Units.

ANSWERING/BROWSING

Pressing Up ▲ and DOWN ▼ keys while answering a call or browsing changes volume of the sound out from the Handheld Monitor Units.

3-5. Changing Brightness on Handheld Monitor Unit

Dimmer → → → → Brighter

While in Answer or Browsing mode, Click on Brightness to shift brightness of the screen. Brightness changes in 5 steps and repeats.

4. How to Use Basic Features

4-1. Answering to a Door Camera Unit

(1) When a visitor presses the PUSH button on a Door Camera Unit, all other iVISION+ devices in the system make a chime sound. The Handheld Monitor Units will automatically display a video image from the Door Camera Unit.

(2) Press "ANSWER" button to talk to the visitor. The call will automatically be terminated after 60 seconds* unless ANSWER button is pressed again during the conversation to extend for another 60 seconds.

"ANSWER" to talk

*Conversations are limited to a 60 second duration to conserve battery life or for when it is forgotten to manually end the conversation by pressing the "OFF" button.

(3) While in a conversation with a Door Camera Unit, if properly installed with additional units (Gateway Chime Unit and a OPTEX RC-20U), you can press the "OPEN DOOR" to open a electric door lock or activate a third party equipment.

(4) Press the "OFF" button to end the conversation.

"OFF" to end

Handheld Monitor Units allow 60 seconds before answering a call manually and engage in a conversation with a visitor. If no one answers a call then an image from the Door Camera Unit is captured and stored into a memory of the main Handheld Unit [1].

When there is a missed call, PLAY button on the Main Handheld Unit [1] will blink to notify that there is a captured still image from a time no one was around.

4-2. Using SNAP function to capture an image

the Handheld Monitor Unit can capture an image from a Door Camera Unit and stores up to 500 images in an internal memory.

During ANSWER or BROWSING MODE, press SNAP to record a still image from the Door Camera Unit. An REC Indicator ● in red will appear on the top of the screen for 1 second.

20XX/XX/XX 11:59AM

REC Indicator

4-3. Operating OPEN DOOR function

CAUTION
OPEN DOOR function is only available if iVISION+ system is expanded with an OPTEX RC-20U Unit through a Gateway Chime Unit.

IDLE MODE

Pressing OPEN DOOR button will bring an OPEN DOOR menu on the screen. Select DOOR1 or DOOR2 to activate a designated output relay on RC-20U unit. Two short beeps will confirm the signal transmission. Return to IDLE mode by pressing OFF.

During ANSWER or BROWSE mode

Pressing OPEN DOOR button while answering a call or browsing directly activates the RC-20U output relay designated to a Door Camera Unit. This is indicated on the top of the screen.

ANSWER/BROWSING MODE

20XX/XX/XX 11:59AM

Indicator for a Door Camera Unit in operation

4-4. Ending a ANSWER / BROWSING MODE (Returning to IDLE MODE)

Press OFF button to terminate ANSWER or BROWSING MODE and return to IDLE MODE.

CAUTION
Pressing OFF button for more than 2 seconds will turn off the power of the Handheld Monitor Unit. When the power is turned off the unit will not respond to a call from a Door Camera Unit.

5. Auto Recording Images

5-1. How "Auto Recording" works

Every time Door Camera Unit makes a call to a main Handheld Monitor Unit, HU1 [1] will capture images from the screen and stores into its internal memory.

When the Handheld Monitor Unit has newly captured images from Auto Recording, PLAY button will be blinking.

If you wish to disable the Auto Recording function, please follow step 5-2 as described in the next section. Set number of images to be captured to "0" zero.

The internal memory of the Main Handheld Monitor Unit can store up to 500 images. If any exceeding number of images are to be captured, oldest pictures are deleted and overwritten immediately.

5-2. Changing number of images to be captured in " Auto Recording"

NOTE
By default, the number of images to be captured during Auto Recording is "2" two.

(1) Please enter SYSTEM SETUP menu by pressing down on LEFT function key for more than 2 seconds.

(2) Select "2 SYSTEM CONFIGURATION" by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm "OK"

(3) Select "1 NUMBER OF CAPTURING IMAGE" and press LEFT function key to confirm "OK"

(4) Using UP ▲ and DOWN ▼ keys, select the number of images to be captured during "Auto Recording" from "0" zero to "10" ten.

(5) Please press LEFT Function key to "OK" your selection. The screen will consequently return to IDLE MODE.

5-3. Note about timings for capturing images.

First image will be captured within a second after the PUSH button on the Door Camera Unit is pressed. The second image will be captured 3 seconds after the first image. The third and the following images will be captured after intervals of 2 second in between.

6. Handling Stored Images

6-1. Viewing Images

(1) While in IDLE MODE, press PLAY to enter IMAGE VIEWING MODE
(2) Use UP ▲ and DOWN ▼ keys to browse through stored images.
(3) End IMAGE VIEWING MODE by pressing OFF button.

6-2. Deleting Stored Images

CAUTION
Please note that once images are deleted, they can not be restored.

Deleting selected images in a memory

(1) While in IMAGE VIEWING MODE, select image to delete by UP ▲ and DOWN ▼ keys.
(2) Press RIGHT function key to delete the image.

Deleting all images stored in a memory

(1) While in IDLE MODE, press and hold PLAY button for more than 2 seconds.
(2) If OK, press LEFT function key to delete all images.

6-3. Viewing Images from Your PC

(1) Enter SYSTEM SETUP menu by pressing LEFT function key for more than 2 seconds.
(2) Select "4 PC CONNECTION" by using UP ▲ and DOWN ▼ keys. Confirm "OK" by LEFT function key.
(3) Make sure that the Handheld Monitor Unit is connected to a PC by micro-USB cable*1. and proceed with "OK" by pressing LEFT function key. PC CONNECTION MODE will start.

(4) Your PC will recognize the Handheld Monitor Unit as an external storage device. Access the device to retrieve or manage stored image files*2.
(5) Eject the storage device from the PC and confirm "BACK" by RIGHT function key to return to IDLE MODE.

*1 micro-USB cable must be obtained separately from available electronics shops
*2 PC may require addition procedures to recognize the unit. Supported Window 7 or a later version.

7. Other Settings

7-1. Talk Switching Mode Setting

By default, Talk Switching Mode between a Door Camera Unit and a Handheld Monitor Unit is set to AUTO(MIDDLE NOISE). This means that a conversation switches automatically from a listener to a speaker on either side of the intercom when an unit is picking up a voice or any relevant sound. If you wish to change the setting please take following procedures.

(1) Enter SYSTEM SETUP menu buy pressing LEFT function key for more than 2 seconds.

(2) Select "2 TALK SWITCHING MODE" by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm "OK"

(3) In TALK SWITCHING SETUP screen, select a mode from 1 to 4 by using UP ▲ and DOWN ▼ keys and press LEFT function key to confirm "OK".

1 MANUAL
This is a "Push to talk" mode. Door Camera Unit only receives a voice or a sound from a Handheld Monitor Unit when LEFT function key is being pressed. Use this mode to avoid unwanted sound from the house to be heard from a Door Camera Unit.

2 AUTO(LOW NOISE)
Listener and speaker side switches automatically in this mode. Use this in a very quiet and low noise environment to enhance conversational responses.

3 AUTO(MIDDLE NOISE)
Listener and speaker side switches automatically in this mode. This is a default factory setting.

4 AUTO(HIGH NOISE)
Listener and speaker side switches automatically in this mode. Use this with a noisy environment to enhance conversational responses.

Press LEFT function key to speak to a Door Camera Unit when in MANUAL setting.

8. Frequently Asked Questions.

Q: Is the iVISION+ compatible to the old iVISION
A: No, but the iVISION+ is compatible with OPTEX RC-20U, which allows the iVISION+ additional feature to operate a third-party equipment.

Q: If I connect existing door bell wires to the Door Camera Unit, will the bell still ring?
A: No. The input terminals on the Door Camera Unit are strictly for power purposes. Please use Gateway Chime Unit to replace the existing doorbell for additional sound.

Q: Can I unload the images from the Handheld Monitor Unit to my PC?
A: Yes. micro-USB cable is required to unload images. (Refer to Sec. 6-3)

Q. What is the RF transmission range for iVISION+?
A: Signal reaches a maximum of six hundred ft (clear line of site). RF signal condition may vary depending on surrounding environment and materials.

Q: How many Handheld Monitor Units can I have communicating to a Door Camera Unit?
A: One at a time. If another Door Camera Unit makes a call while answering, the call will be withheld until the current session ends.

Q: How can I adjust the volume on the Door Camera Unit?
A: There is no volume adjustment for the Door Camera Unit.

9. Trouble Shooting

Symptoms	Probable causes & solutions
A howling noise distorts the sound.	If the Handheld Monitor Unit is too close to the Door Camera unit, a howling sound can occur. • Keep the Handheld Monitor Unit away from the Door Camera unit.
The ring tone cannot be heard.	• Check battery status on Handheld Monitor Unit and charge if necessary. Change volume setting on the Handheld Monitor Unit. (Refer to Sec. 3-1 "Check 3")
The charging does not start when the Handheld Monitor Unit is placed in the charging cradle.	Is the AC adaptor disconnected from the socket or the charging cradle? • Please check all power connections. • Clean the charging terminals with a dry cloth.
The display on a Handheld Monitor Unit is black and does not respond to any key.	Is the unit in standby? • Press any button to energize the display. • Make sure the unit is powered on. (Refer to Sec. 3-2) • If the battery has ran out, charge the Handheld Monitor Unit for about 10 minutes before turning ON.

Symptoms	Probable causes & solutions
The video image is distorted. The voice is cut off while answering/browsing a Door Camera Unit.	Is a microwave oven or a wireless LAN device in operation near to the Handheld Monitor Unit? • Re-locate the Handheld Monitor Unit away from such equipment.
The video image flickers.	Fluorescent lights nearby to the Camera Door Unit can cause the image to flicker.
Subjects show up in black and white or background is a greenish color	Is the background dark, such as at night time? • Subjects shows up as black and white due to color-dulling when it becomes dark. Also could appear "greenish" in areas covered by outdoor lights. This is normal at night when lighting is provided by the IR LED in the Door Camera Unit.
The visitors face is dark or unclear in the video image.	If the Door Camera Unit is mounted in an area with a bright backlight (either from sunlight or outdoor lighting) the visitor's face may appear as a silhouette. • Check that the camera lens is not dirty or has condensation on the surface. Wipe with a dry cloth. • Adjust the brightness setting (Refer to Sec. 3-5) • Re-locate the camera to a position with no backlight.
The video image shows up whitish or white lines or rings show up in images.	It may be difficult to see the image if the camera lens receives strong light such as sunlight. • Avoid direct sunlight by re-positioning or placing a shade. • Adjust the brightness setting (Refer to Sec. 3-5)
There are small black spots in the background of the image.	Does the sun show up in the image? The center of the sun can appears as black spots if the sun is in a view. • Avoid direct sunlight by re-positioning or placing a shade. • Adjust the brightness setting (Refer to Sec. 3-5)

Technical Assistance

If you require technical assistance with regards the installation, operation or use of this product, please call

Technical Support
at
1-800-556-7839

FCC WARNING

2.4 GHz RF TRANSMISSION

About the radio frequency transmitter
• This unit transmits a wireless signal in the frequency range 2.4 -2.4835GHz.

This unit shares a frequency band with a wide range of equipment: i.e. industrial, scientific and medical equipment, licensed and unlicensed low-power radio transmitters such as those used for RFID applications in factories/warehouses and amateur radio stations. Before use please confirm that no such equipment is in use in your vicinity.
In the event that this unit causes unwanted interference to such device, please discontinue use immediately and contact the customer service center for consultation on interference avoidance measures.

Privacy & portrait/image rights
• Please respect the privacy and image rights of others when using this equipment. By using this equipment the user assumes total responsibility in upholding these rights.
• Images stored must not be used for any purpose other than that for which the equipment is designed.
• Images should be deleted once no longer required - see page 19 for details of how to delete the stored images.

FCC Statements

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
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.
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 into 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 Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This transmitter (IVP-DU&IVP-GU) should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Statements

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.
Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.
L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that, the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.
Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.
This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.
Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal etl'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

IC Radiation Exposure Statement

This equipment complies with IC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
This transmitter (IVP-DU&IVP-GU) should be installed and operated with minimum distance 20cm between the radiator & your body.
IC exposition aux radiations:
Cet équipement est conforme avec IC les limites d'exposition aux rayonnements définies pour un contr?lé environnement.
Cet émetteur ne doit pas être co-localisés ou fonctionner en conjonction avec une autre antenne ou émetteur.
Cet émetteur (IVP-DU & IVP-GU) doit être installé et utilisé à distance minimum de 20cm entre le radiateur et votre corps.

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