



Flexible configurations
that work for you,
whatever
your needs

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- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

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VIEW AND TALK FLEXIBLY

Panasonic offers various Video Intercom System models to flexibly suit the size of your house and your lifestyle.



Stylish Premium DECT Wireless Series VL-SWD501



1 x Main Monitor: VL-MWD501
1 x Door Station: VL-V554
1 x Wireless Sub Monitor: VL-WD613

Expandable DECT Wireless Series VL-SWD272



1 x Main Monitor: VL-MWD272
1 x Door Station: VL-V522L
1 x Wireless Sub Monitor: VL-WD613

2.4 GHz Wireless Series VL-SW251



1 x Main Monitor: VL-MW251
1 x Door Station: VL-V522L
1 x Wireless Sub Monitor: VL-W605

Smartphone Connect Series VL-SVN511



1 x Main Monitor: VL-MVN511
1 x Door Station: VL-V522L

4-wire Series VL-SF70



1 x Main Monitor: VL-MF70
1 x Door Station: VL-VF580

Comparison Chart

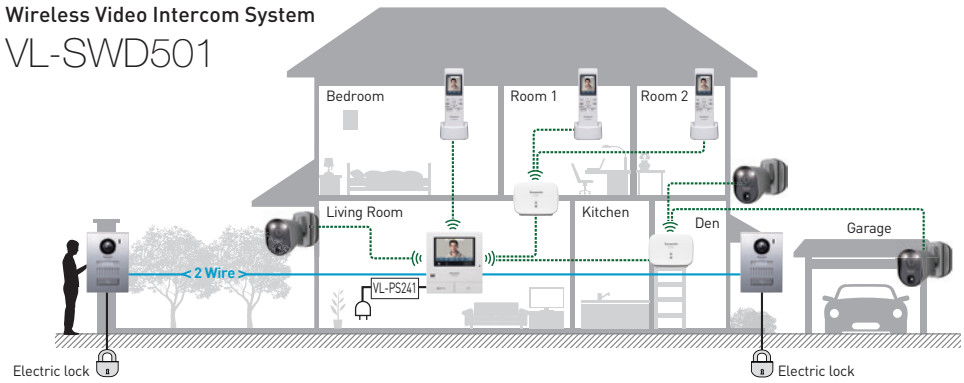
Model Number		VL-SWD501	VL-SWD272	VL-SW251	VL-SVN511	VL-SF70
Maximum Connectable Units	Door Station (Doorphone)	2 [Die-Cast Aluminium]	2	2	2	2
	Main Monitor / Extension Monitor	1 / —	1 / 3	1 / —	1 / —	3 / —
	Wireless Sub Monitor	6 (DECT)	6 (DECT)	4 (2.4 GHz)	—	—
	Smartphone, Tablet	—	—	—	● [4]*1	—
Recording	Video / Picture Recording	●/●	—/●	—/●	—/●	—/●
	SD Card Recording	●	—	—	—	—
Connectable Devices	Sensor Camera	● [4]	—	—	—	—
	Electric Lock Release (Door Opener)	● [2]*2	● [2]	● [2]*2	● [2]	● [2]*2
	Panasonic PBX	—	●	●	●	—
	Repeater	● [2]	● [2]	● [2]	—	—
Others	Night Vision (LED Light)	●	●	●	●	●
	Touch Panel / Pan & Tilt	●/●	—/●	—/—	—/●	—/—
	Wide Angle Camera	● H: 170° V: 115°	— H: 87° V: 66°	— H: 87° V: 66°	— H: 87° V: 66°	— H: 51° V: 38°
	Intercom Call	●	●	●	—	●
	Voice Changer	●	●	●	●	—

*1 The main monitor must be on the same home wireless network as a smartphone/tablet [with the dedicated app installed].

*2 When connecting 2, an optional Door Station is required.

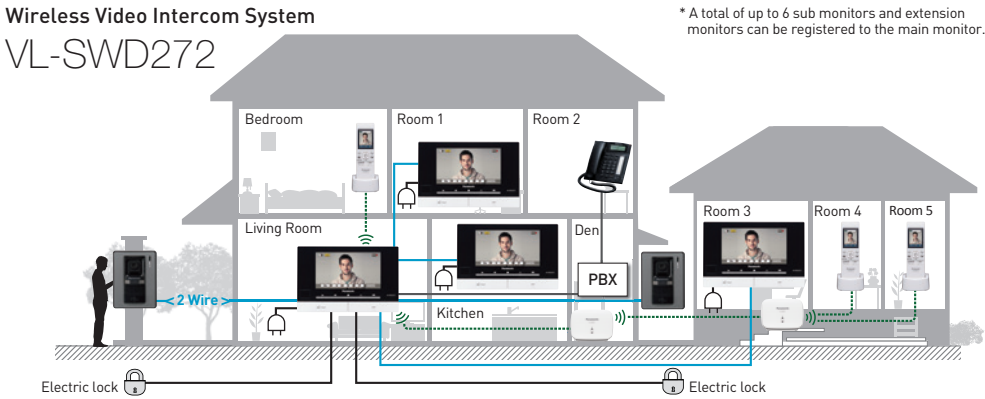
System Configuration Example

Wireless Video Intercom System VL-SWD501



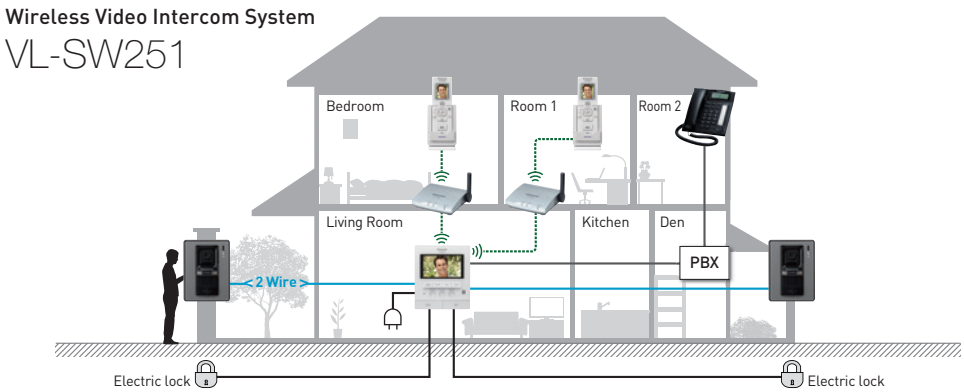
System Units	
Main Monitor Station VL-MWD501	Wireless Monitor Station VL-WD613 Up to 6
Door Station VL-V554 Up to 2	DECT Repeater VL-FKD2 Up to 2
Wireless Sensor Camera VL-WD812 Up to 4	

Wireless Video Intercom System VL-SWD272



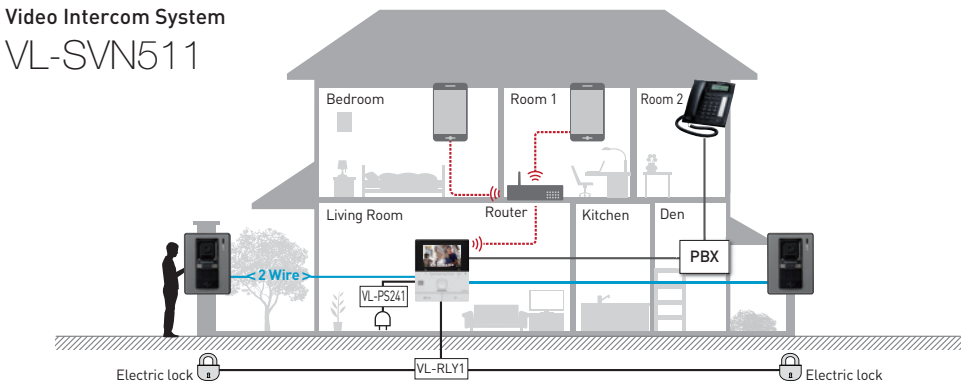
System Units	
Main/Extension Monitor VL-MWD272 Up to 3* [not including the main monitor]	Wireless Monitor Station VL-WD613 Up to 6
Door Station VL-V522L Up to 2	DECT Repeater VL-FKD2 Up to 2
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.

Wireless Video Intercom System VL-SW251



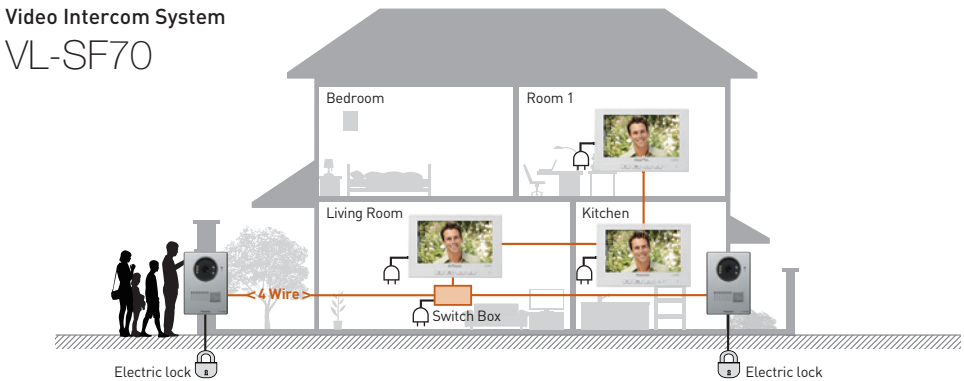
System Units	
Main Monitor Station VL-MW251	Wireless Monitor Station VL-W605 Up to 4
Door Station VL-V522L Up to 2	Repeater for Wireless Monitor VL-FAN1 Up to 2
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.

Video Intercom System VL-SVN511



System Units	
Main Monitor Station VL-MVN511	Door Station VL-V522L Up to 2
Mobile Devices Up to 4	Panasonic PBX This image shows the KX-NS500. Please consult your dealer when connecting with a PBX.

Video Intercom System VL-SF70



System Units	
Monitor VL-MF70 Up to 3	Door Station VL-VF580 Up to 2

Stylish Premium DECT Wireless Series

Wireless Video Intercom System

VL-SWD501



* Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.

DECT Wireless

The wireless design means that there is no troublesome wiring required when adding on to the system as well. You can add on up to 6 sub monitors and 4 DECT Wireless Sensor Cameras for large homes, and easily confirm visitors from a monitor in each room.



SD Card Recording

You can automatically record video images of visitors while you're away from home. It will record up to 3,000 visitors (30 seconds per visitor). And you can save and play the images on a PC that has an SD card slot.



Touch Panel

The main monitor has a 5-inch wide screen that clearly shows each visitor's face. If it is difficult to see, simply touch the screen to activate an approximate 2x zoom horizontally and vertically. This makes it easy for everyone to see, and provides an easy-to-use operating screen.



Other Features

- Electric Lock Release Support : AC12 V-1 A / DC12 V-1 A
- Wide-Angle Camera (Horizontally:170°, Vertically:115°)
- Wireless Sensor Cameras Connectable
- Night Vision (warm white coloured LED lights)
- Voice Changer
- Intercom Call (between main monitor and sub monitor)

Options



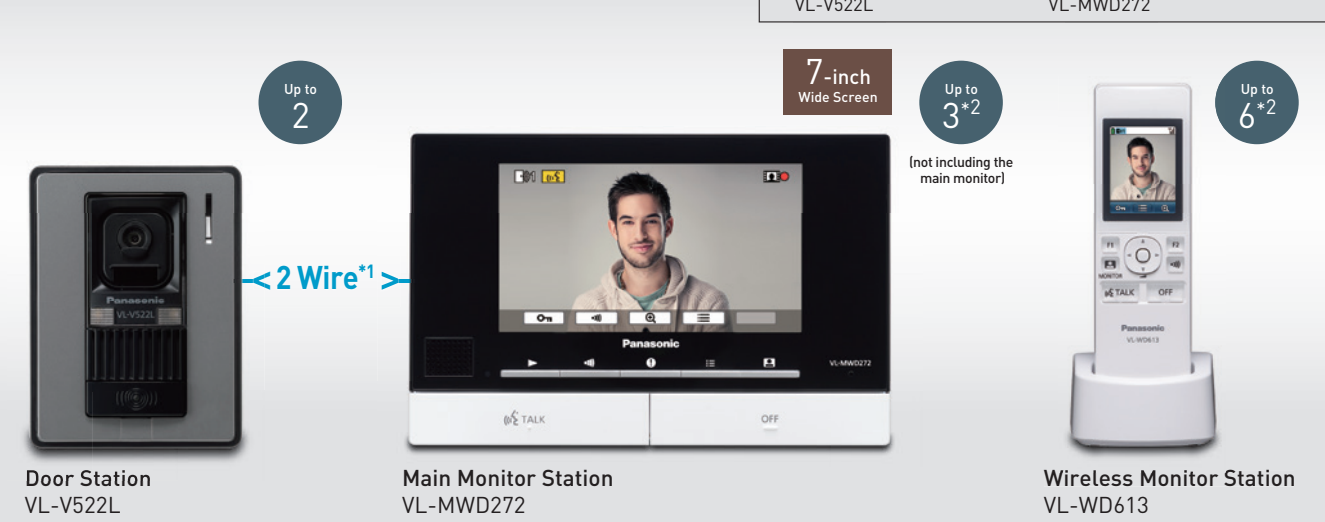
Related Product



Expandable DECT Wireless Series

Wireless Video Intercom System

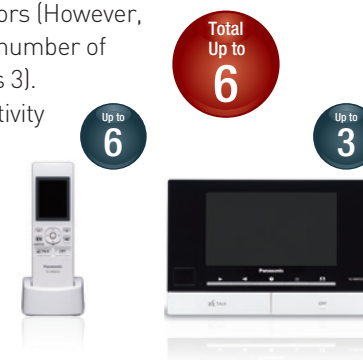
VL-SWD272



*1 Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.
*2 A total of up to 6 sub monitors and extension monitors can be registered to the main monitor.

Highly Expandable

Up to 6 additional monitors can be connected to the main monitor using a combination of 7-inch wired monitors and 2.2-inch wireless monitors (However, the maximum possible number of 7-inch wired monitors is 3). In addition, PBX connectivity is also supported.



7-inch Screen

The main monitor and extension monitor have a 7-inch wide screen that offers easy viewing of wide vertical and horizontal views.



Wireless Handset (DECT)

You can use the wireless monitor to check visitors and respond promptly from the living room, kitchen and elsewhere in the home even while you are doing something else. Up to 6 wireless monitors can be connected, and the max wireless range is 100 m with no obstacles. You can also add up to 2 DECT repeaters to expand the range.



Other Features

- Electric Lock Release Support : AC30 V-1 A / DC24 V-1 A
- Picture Recording (Up to 50 visitors (up to 8 still images per visitor))
- Night Vision (white coloured LED lights)
- Voice Changer
- Intercom Call (between the main monitor, sub monitor and extension monitor)

Options



2.4 GHz Wireless Series

Wireless Video Intercom System

VL-SW251

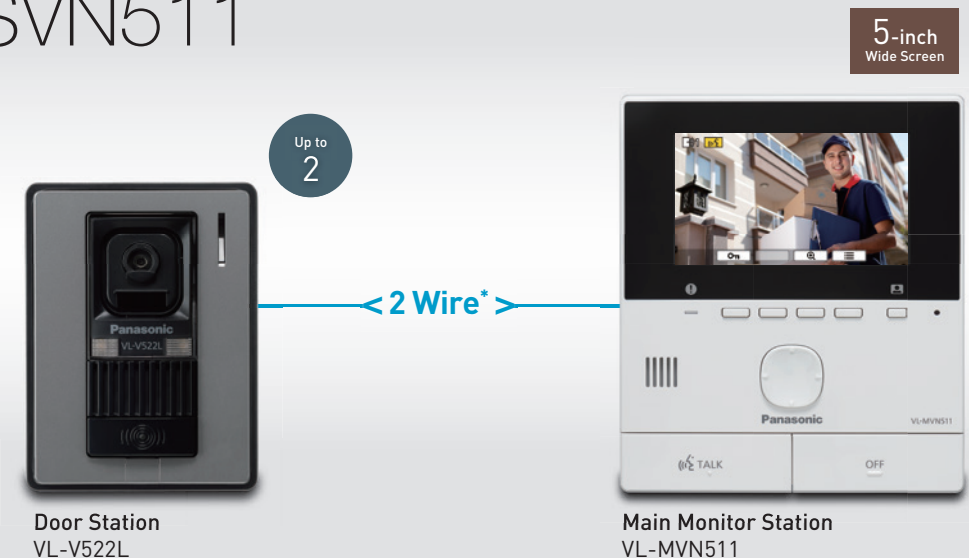


* Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.

Smartphone Connect Series

Video Intercom System

VL-SVN511



* Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.

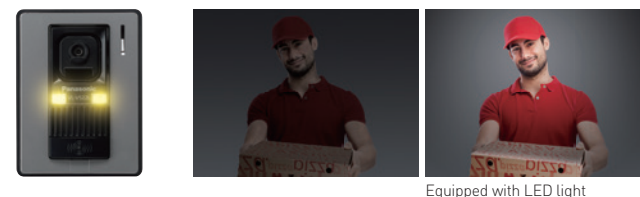
Wireless Handset (2.4 GHz)

Check visitors and respond promptly from everywhere in the home and even while you are doing something else, by wireless handset.



Night Vision (LED Light)

Door Station is equipped with LED lights (illumination lamp). It enables the colour display of visitors at a distance of about 50 cm at night.



Picture Recording (8 Consecutive recorded images each)

Eight consecutive still images of visitors are automatically recorded. (Up to 50 times, 400 images in total) This ensures that you will see every person visiting your home. Images can also be displayed frame-by-frame.



Other Features

- Electric Lock Release Support : AC30 V-1 A / DC24 V-1 A (Door Opener)
- Voice Changer
- Intercom Call (between main monitor and sub monitor)

Smartphone Connect*1

You can use your smartphone or tablet as a sub monitor to respond to visitors and unlock electric locks no matter where you are in the home. You can also monitor doorphone images when you want to check the door entrance.



E-mail Notification*2

The main monitor can send e-mail with a time stamp and image of visitors to e-mail addresses registered in advance, enabling you to check who has visited when you are outside the house (even when you are overseas).



Other Features

- Supports iOS and Android™ (free application)*
 - iPhone 5 and later, iPad (iOS 7.0 or later)
 - Android smartphones and tablets (Android 4.0 or later)
- Electric Lock Release Support: VL-RLY1 (12 V AC/DC, less than 1 A)
- Picture Recording (Up to 50 visitors (up to 8 still images per visitor))
- Night Vision (white coloured LED lights)
- Voice Changer

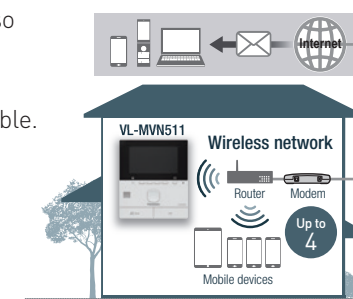
* Some mobile devices may not be compatible.
* For the latest information about the app and compatible devices, visit the following website.



<http://panasonic.net/pcc/support/intercom/smartphone/>

Wireless Network Connection

In addition to smartphones/tablets, the main monitor can also wirelessly connect to the wireless router for easy connections without a cable.



Options

Door Station (Doorphone) VL-V522L Up to 2	Wireless Monitor Station (Sub Monitor) VL-W605 Up to 4	Lobby Station VL-V590 Up to 20 main monitors can be connected.	Repeater for Wireless Monitor VL-FAN1 Up to 2	PBX This image shows the KX-NS500. Please consult your dealer when connecting with a PBX.	Connectable PBX Model Numbers KX-TDA30/100/100D/200/600 series KX-TDE100/200/600 series KX-NS300/500/700/1000 series
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Options

Door Station (Doorphone) VL-V555 (Surface mount) CMOS 0.3 M pixels Up to 2	Door Station (Doorphone) VL-V554 (Surface mount) CMOS 1.0 M pixels Up to 2	Door Station (Doorphone) VL-V522L (Surface mount) Up to 2	Lobby Station VL-V590 Up to 20 main monitors can be connected.	PBX This image shows the KX-NS500. Please consult your dealer when connecting with a PBX.	Connectable PBX Model Numbers KX-TDA30/100/100D/200/600 series KX-TDE100/200/600 series KX-NS300/500/700/1000 series
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*1 The main monitor must be on the same home wireless network as a smartphone/tablet (with the dedicated app installed). It is also necessary to run the dedicated app in order to receive visitor's calls on a smartphone/tablet.

*2 To use this function, a main monitor with e-mail sender information registered must be connected to the internet. E-mail may not be able to be sent, depending on the condition of the network.

4-wire Series

Video Intercom System

VL-SF70



7-inch Wide Monitor

This monitor features a 7-inch wide LCD. As the monitor, it lets you clearly identify visitors.



Picture Recording

Up to 50 visitor images are automatically recorded and saved. You can check them when you return home.



Three Monitors Connectable

A maximum of three monitor units can be connected. By installing them in the living room and other rooms where you spend the most time, such as a bedroom or kitchen, you can answer the visitor immediately.



*1 Electric lock (user supplied)

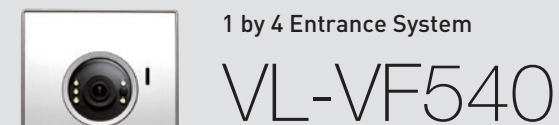
Other Features

- Electric Lock Release Support (Door Opener) : DC12 V-1.5 A
- Intercom Call (between monitors) * Multiple monitors required

Options



Multi-Entrance System



Stylish Door Station for Multi-family Housing or Office, Commercial Facilities

Up to 4 groups/12 monitors can be connected to VL-VF540 and a separate group can be set for each of the 4 call buttons. This enables visitors to call the household they are visiting without disturbing other households. The household can respond by checking the visitor's face and unlocking the lobby door.



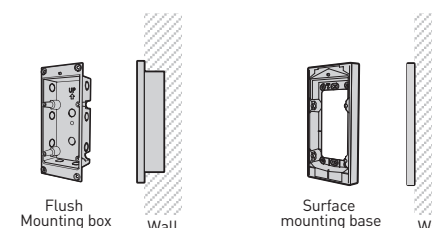
Stylish and Tough

The robust body meets the dustproof and waterproof requirements of IP54*1 and a hairline aluminium panel makes your entranceway more stylish.

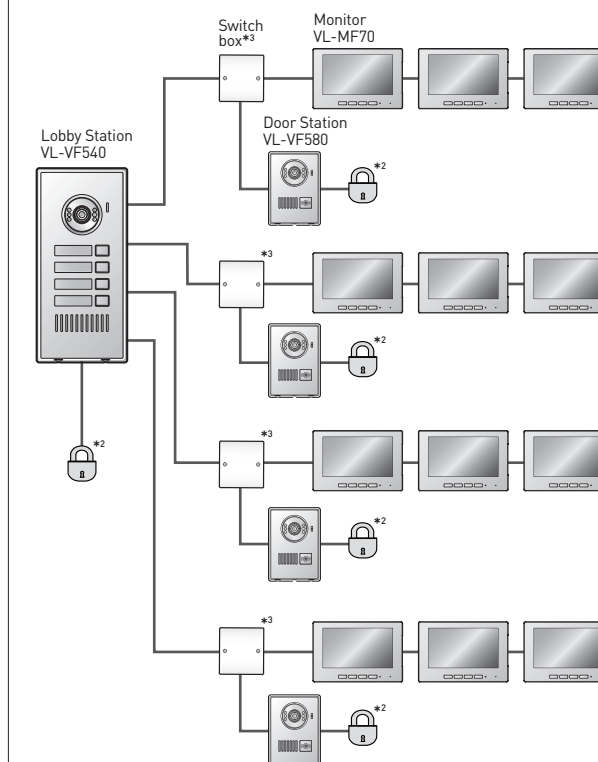


Two Types of Mounting

The system can be both attached to a wall or embedded in a wall. Both types of mounting fixtures are included.

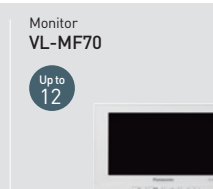


System Configuration Example



- Up to 4 groups/12 monitors can be connected
- 4 name plates
- Electric Lock Release Support (can be installed in front of each individual home in addition to the lobby)
- Night vision with LED lights and illumination sensor
- CMOS camera (Horizontally: Approx. 51° Vertically: Approx. 38°)

Supported Models

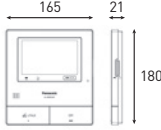
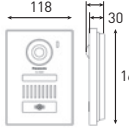
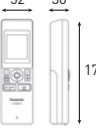
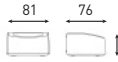


*1 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.
 *2 Electric lock (user supplied)
 *3 Switch box (included with the optional VL-VF580, NOT included with the VL-MF70)

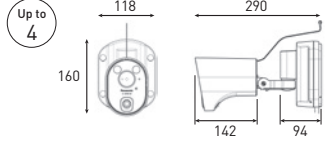
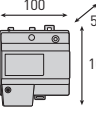
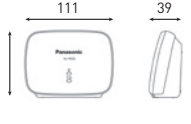
VL-SWD501

Model Composition

VL-SWD501	VL-MWD501 x 1	VL-V554 x 1	VL-WD613 x 1
VL-SWD501U	VL-MWD501 x 1	VL-V554U x 1	VL-WD613 x 1

Model number and name	VL-MWD501	VL-V554 (Surface mount) VL-V554U (Flush mount)	VL-WD613	
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main body	Charger
Dimensions (Unit: mm)				
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A (VL-PS241 supplied)	Supplied by the main monitor 20 V DC, 0.23 A	Rechargeable Ni-MH (AAA x 2)	AC adaptor (Product No. PNLV226) Output: 5.5 V DC, 0.5 A
Power consumption	Standby: Approx. 1.4 W During operation: Approx. 10 W	—	—	Standby: Approx. 0.4 W (when the sub monitor is not placed in the charger) During charging: Approx. 1.4 W
Dimensions (H x W x D) (Excluding protruding sections)	180 x 165 x 21 mm	VL-V554: 169 x 118 x 30 mm VL-V554U: 169 x 118 x 16.5 mm (excluding sections embedded into the wall)	173 x 52 x 30 mm	43 x 81 x 76 mm
Weight	470 g	VL-V554: 405 g VL-V554U: 345 g	160 g (including the batteries)	70 g (excluding the AC adaptor)
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	5-inch wide colour / WVGA (800x480 pixels)	—	2.2-inch colour / QVGA (320x240 pixels)	—
Display language	English	—	Depends on main monitor	—
Talking method	Hands-free	Hands-free	Hands-free	—
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz	—
Transmitting range	—	—	Approx. 100 m (line-of-sight distance from the main monitor)	—
Option output (A contact)	Rated load: 24 V AC/DC, 0.3 A or lower Minimum applicable load: 5 V DC, 0.001 A (Output when there is a call from the doorphone)	—	—	—
Viewing angle	—	Horizontally: Approx. 170° Vertically: Approx. 115°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 1.0 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights	—	—
IP rating / IK rating	—	IP54*1 / Compliant with IK07	—	—
Installation method	Wall mount (mounting bracket supplied)	VL-V554: surface mount (mounting base supplied) VL-V554U: flush mount (flush mounting box supplied)	—	—
External material	Flame retardant ABS and PS resin	Aluminium and flame retardant PC+PS resin	ABS resin	ABS resin

Options


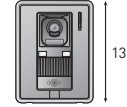
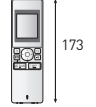
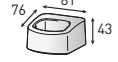
Model number and name	VL-WD812 (For VL-SWD501)		VL-FKD2 (For VL-SWD501 / VL-SWD272)
	Wireless Sensor Camera	Power Supply Unit [VL-PS241]	DECT Repeater
Dimensions (Unit: mm)			
Power source	Power supply unit (VL-PS241) 24 V DC, 0.4 A	Input: 220-240 V AC, 0.2 A [50/60 Hz] Output: 24 V DC, 0.6 A	AC adaptor (Product No. PQLV219) Output: 6.5 V DC, 0.5 A
Power consumption	During standby: Approx. 1.5 W During operation: Approx. 4.5 W (when the LED lights are not lit), Approx. 8 W (when the LED lights are lit)	—	During standby: Approx. 1.5 W During operation: Approx. 2.3 W (when transmitting)
Dimensions (H x W x D)	160 x 118 x 290 mm (when the camera is front facing and including the wall mount bracket)	104 x 100 x 54 mm	82 x 111 x 39 mm
Weight	960 g	215 g	88 g (excluding the AC adaptor)
Operating environment	Ambient temperature: Approx. -20 °C to +50 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz
Transmitting range	Approx. 100 m (line-of-sight distance from the main monitor)	—	Approx. 100 m (line-of-sight distance from the main monitor)
Angular field of view (camera angle)	Horizontal: Approx. 53° Vertical: Approx. 41°	—	—
Image sensor	0.3 M pixels CMOS	—	—
Minimum illuminance required	1 lx*2	—	—
Lighting method	2 white coloured LED lights*3	—	—
Sensor detection range	Heat sensor (when the surrounding temperature is approx. 20 °C) Horizontal: Approx. 63°, vertical: Approx. 20°, detection range: Approx. 5 m Motion detection sensor Horizontal: Approx. 53°, vertical: Approx. 41°	—	—
Sensor detection method	Pyroelectric infrared sensor (heat sensor) and motion detection	—	—
Adjustable mounting angles	Horizontal: ±90°, vertical: facing forward - facing down approx. 60° (adjustable when mounting)	—	—
Heat sensor adjustable angles	Manually adjustable to 2 angles	—	—
IP rating	IP54*1	—	—
Installation method	Wall mount (wall mount bracket supplied)	Wall mount or attach to DIN rail	—
External material	PC+ABS resin	Flame retardant PC+ABS resin	PS resin

*1 Water resistance is only assured if the doorphone/the camera is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.
Do not install the camera in areas directly exposed to water or rain.
*2 The minimum illuminance required when the camera's [Brightness] setting is set to [+3]. *3 Approx. 8.5 lx when 3 m in front of the camera, and approx. 4 lx when 3 m away and 20° to the left or right of the camera.

VL-SWD272

Model Composition

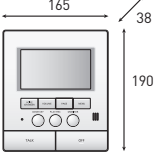
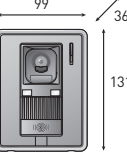
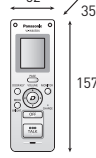
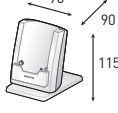
VL-SWD272	VL-MWD272 x 1	VL-V522L x 1	VL-WD613 x 1
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Model number and name	VL-MWD272	VL-V522L	VL-WD613	
	Main Monitor Station (Main monitor) Extension Monitor	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main body	Charger
Dimensions (Unit: mm)				
Power source	220-240 V AC, 50/60 Hz	Supplied by the main monitor	Rechargeable Ni-MH (AAA x 2)	AC adaptor (Product No. PNLV226) Output: 5.5 V DC, 0.5 A
Power consumption	Standby: Approx. 2.5 W During operation: Approx. 10 W	—	—	Standby: Approx. 0.4 W (when the sub monitor is not placed in the charger) During charging: Approx. 1.4 W
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	131 x 99 x 36.5 mm	173 x 52 x 30 mm	43 x 81 x 76 mm
Weight	825 g*2	200 g	160 g (including the batteries)	70 g (excluding the AC adaptor)
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	7-inch wide colour / WVGA (800x480 pixels)	—	2.2-inch colour / QVGA (320x240 pixels)	—
Display language	English, Arabic	—	Depends on main monitor	—
Talking method	Hands-free	Hands-free	Hands-free	—
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz	—
Transmitting range	—	—	Approx. 100 m (line-of-sight distance from the main monitor)	—
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights, Infrared LEDs	—	—
IP rating / IK rating	—	IPX3*3	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)	—	—
External material	Flame retardant PC+ABS resin, Flame retardant ABS resin	Flame retardant ABS resin	ABS resin	ABS resin

VL-SW251

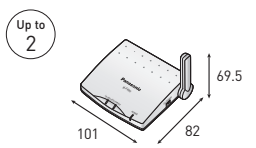
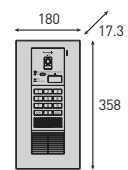
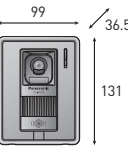
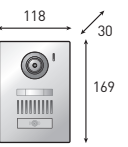
Model Composition

VL-SW251	VL-MW251 x 1	VL-V522L x 1	VL-W605 x 1
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Model number and name	VL-MW251	VL-V522L	VL-W605	
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main Body	Charger
Dimensions (Unit: mm)				
Power source	100-240 V AC, 50/60 Hz	Supplied by the main monitor	Ni-MH battery (3.6 V DC / 650 mAh)	AC adaptor (Product No. PQLV219) Output: 6.5 V DC, 0.5 A
Power consumption	Standby: Approx. 0.04 A During operation: Approx. 0.28 A	—	—	—
Dimensions (H x W x D) (Excluding protruding sections)	190 x 165 x 38 mm	131 x 99 x 36.5 mm	157 x 52 x 35 mm	115 x 76 x 90 mm 105 x 76 x 48 mm (using without the stand)
Weight	785 g*2	200 g	175 g (including the battery)	115 g (including the stand)
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	5-inch wide colour display / WQVGA (480x272 pixels)	—	1.8-inch colour display	—
Display language	English	—	Depends on main monitor	—
Talking method	Hands-free	Hands-free	Hands-free	—
Frequency range	2.402 GHz to 2.481 GHz	—	2.402 GHz to 2.481 GHz	—
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights, Infrared LEDs	—	—
IP rating / IK rating	—	IPX3*3	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)	—	—
External material	Flame retardant ABS resin	Flame retardant ABS resin	ABS resin	ABS resin

*1 When sub monitors and extension monitors are used together, a total of up to 6 sub monitors and extension monitors can be registered.
*2 Including AC cable. The weight of the AC cable differs depending on the region.
*3 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.

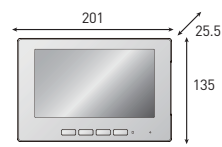
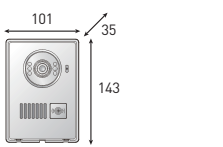
Options

Model number and name	VL-FAN1 (For VL-SW251)	VL-V590	VL-V566	VL-V555
	Optional Repeater for Wireless Monitor	Optional Lobby Station	Optional Door Station (Doorphone)	Optional Door Station (Doorphone)
Dimensions (Unit: mm)				
Power source	AC adaptor (Product No. PQLV202XG-LJ) Output: 12 V DC, 0.75 A	100 V~240 V AC, 50/60 Hz	Supplied by the main monitor	Supplied by the main monitor
Power consumption (approx.)	Standby: 0.05 A During operation: 0.08 A	Standby: 0.02 A During operation: 0.03 A	—	—
Dimensions (H x W x D) (Excluding protruding sections)	27 x 101 x 82 mm 69.5 x 101 x 82 mm (when raising the antenna)	358 x 180 x 17.3 mm (Excluding sections embedded into the wall)	131 x 99 x 36.5 mm	169 x 118 x 30 mm
Weight	85 g	2.0 kg	200 g	395 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -10 °C to +50 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -10 °C to +50 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)
Frequency range	2.402 GHz to 2.481 GHz	—	—	—
Transmitting range	Approx. 100 m (line-of-sight distance from the main monitor)	—	—	—
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66°	Horizontally: Approx. 87° Vertically: Approx. 66°	Horizontally: Approx. 170° Vertically: Approx. 130°
Image sensor / camera (pixel)	—	—	CMOS sensor (Approx. 0.3 M pixels)	CMOS sensor (Approx. 0.3 M pixels)
Installation method	—	Flush mount (flush mounting box supplied)	Surface mount (mounting base supplied)	Surface mount (mounting base supplied) or Flush mount (flush mounting box sold separately)
External material	Flame retardant PS resin	Stainless steel and flame retardant ABS resin	Flame retardant ABS resin	Aluminium and flame retardant PC+PS resin

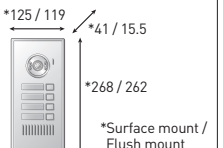
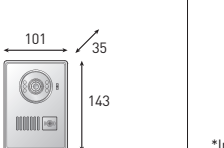
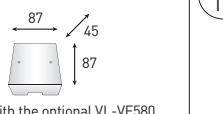
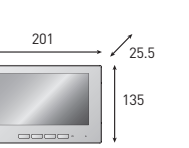
VL-SF70

Model Composition



Model number and name	VL-MF70	VL-VF580
	Monitor	Door Station (Doorphone)
Dimensions (Unit: mm)		
Power source	AC adaptor (Product No. PNLV245), Output: 24 V DC, 0.5 A	Supplied by the monitor
Power consumption	Standby: Approx. 1.3 W During operation: Approx. 10 W	—
Dimensions (H x W x D) (Excluding protruding sections)	135 x 201 x 25.5 mm	143 x 101 x 35 mm
Weight	465 g	265 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): from 45 % up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)
Display	Approx. 7-inch wide colour display	—
Talking method	Hands-free	Hands-free
Viewing angle	—	Horizontally: Approx. 51° Vertically: Approx. 38°
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)
Minimum illuminance required	—	1 lx (within approx. 50cm from the camera lens)
Lighting method	—	White coloured LED lights
IP rating / IK rating	—	IP44*1
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)
External material	Flame retardant ABS resin	Flame retardant ABS resin

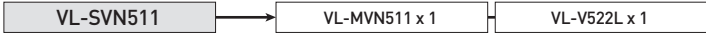
VL-VF540 series

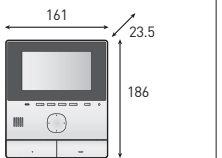
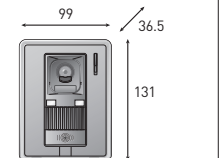
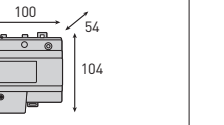
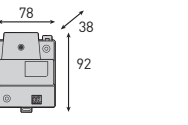
Model number and name	VL-VF540	Optional Accessories		
	Door Station (Doorphone)	Door Station (Doorphone)	Switch Box	Monitor
Dimensions (Unit: mm)				
Power source	Supplied by the monitor		AC adaptor (Product No. PNLV245), Output: 24 V DC, 0.5 A	AC adaptor (Product No. PNLV245), Output: 24 V DC, 0.5 A
Power consumption	—		Standby: Approx. 0.5 W During operation: Approx. 1.5 W	Standby: Approx. 1.3 W During operation: Approx. 10 W
Dimensions (H x W x D) (Excluding protruding sections)	Surface mount: 268 x 125 x 41 mm Flush mount: 262 x 119 x 15.5 mm	143 x 101 x 35 mm	87 x 87 x 45 mm	135 x 201 x 25.5 mm
Weight	500 g	265 g	100 g	465 g
Operating environment	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)		Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): from 45 % up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): from 45 % up to 90 %
Display	—		—	Approx. 7-inch wide colour display
Talking method	Hands-free		—	Hands-free
Viewing angle	Horizontally: Approx. 51° Vertically: Approx. 38°		—	—
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)		—	—
Lighting method	White coloured LED lights		—	—
IP rating / IK rating	IP54*1 / Compliant with IK07		—	—
Installation method	Flush mount or Surface mount (flush mounting box and surface mounting base supplied)	Surface mount (mounting base supplied)	Wall mount	Wall mount (mounting bracket supplied)
External material	Aluminium / Flame retardant ABS resin	Flame retardant ABS resin	Flame retardant ABS resin	Flame retardant ABS resin

*1 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.

VL-SVN511

Model Composition



Model number and name	VL-MVN511	VL-V522L	VL-PS241	VL-RLY1
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Power Supply Unit	Relay Box
Dimensions (Unit: mm)				
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A	Supplied by the main monitor	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A	Supplied by the main monitor
Power consumption	Standby: Approx. 1.8 W During operation: Approx. 10 W	—	—	—
Dimensions (H x W x D) (Excluding protruding sections)	186 x 161 x 23.5 mm	131 x 99 x 36.5 mm	104 x 100 x 54 mm	92 x 78 x 38 mm
Weight	485 g	200 g	215 g	130 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	5-inch wide colour / WQVGA (480x272 pixels)	—	—	—
Display language	English, Arabic	—	—	—
Talking method	Hands-free	Hands-free	—	—
Wireless transmission method	IEEE 802.11 b/g/n 2.4 GHz	—	—	—
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights, Infrared LEDs	—	—
IP rating / IK rating	—	IPX3*1	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)	Wall mount or attach to DIN rail	Wall mount or attach to DIN rail
External material	Flame retardant ABS and PS resin	Flame retardant ABS resin	Flame retardant PC+ABS resin	Flame retardant ABS resin

*1 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.

Compatibility of Main Monitor, Wireless Monitor and Door Station

Please contact your nearest Panasonic dealer for sales information.

○ = Connectable ● = Connectable (same as packaged combination) x = Not connectable

Main Monitor (Package No.)		Wireless Sub Monitor				Door Station					4-Entrance	Lobby Station	
		[2.4 GHz]		[DECT]		VL-554/ VL-V554U 1.0 M pixels	VL-V555 0.3 M pixels	VL-V522L 0.3 M pixels	VL-V566 0.3 M pixels	VL-VF580 0.3 M pixels	VL-VF540 0.3 M pixels	VL-V590 0.3 M pixels	VL-V900 1.0 M pixels
(*)1 VL-MWD501 (VL-SWD501)	5-inch WVGA colour	x	x	● up to 6	○ up to 2	●	○(*)5	○(*)5	○(*)5	x	x	○(*)5	x
VL-MWD272 (VL-SWD272) (add up to 3 extension monitors *6)	7-inch WVGA colour	x	x	● up to 6 (*6)	○ up to 2	○	○	●	x	x	x	○	○
VL-MW251 (VL-SW251)	5-inch WQVGA colour	● up to 4	○ up to 2	x	x	x	x	●	○	x	x	○	○
VL-MVN511 (VL-SVN511)	5-inch WQVGA colour	smartphone connect model				○	○	●	○	x	x	○	○
VL-MF70 (VL-SF70) (add up to 2 monitors)	7-inch WVGA colour	wired model				x	x	x	x	●	○	x	x
VL-MV26*7	3.5-inch QVGA colour	wired model				x	x	x	x	x	x	x	○

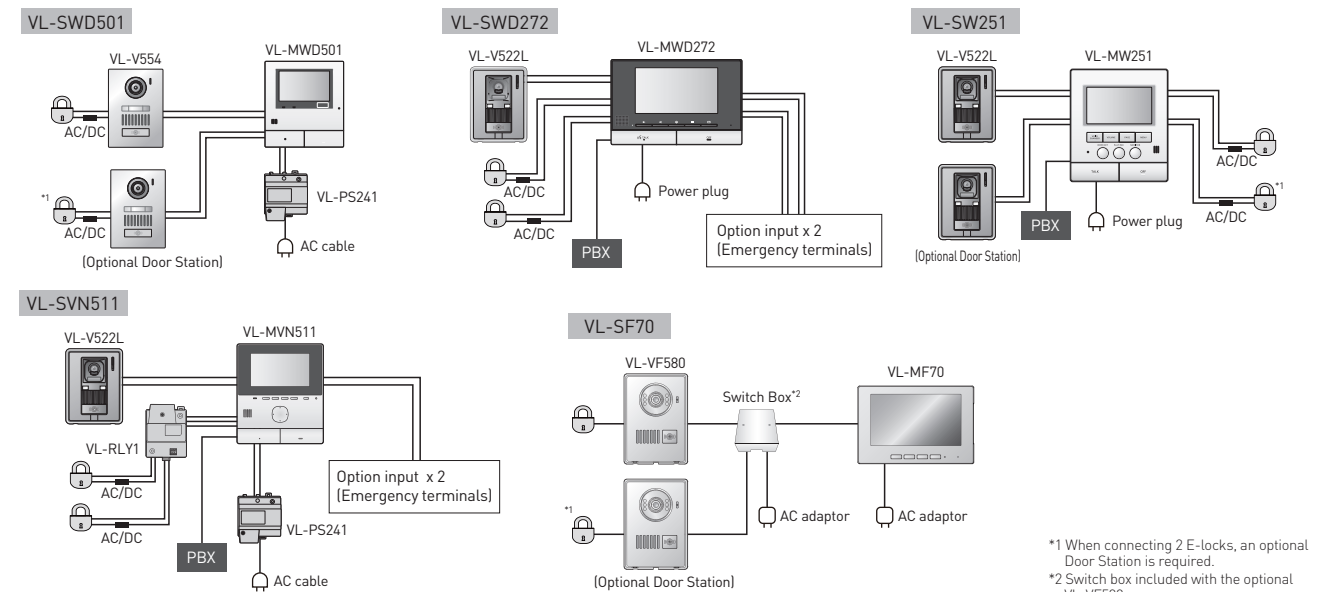
*1 Monitor is not sold as a single unit. *2 Wide/zoom settings and zoom position settings are not available.

*3 Doorphone LED light illumination settings and backlight compensation settings are not available. *4 Outside monitoring using the doorphone is not available.

*5 The image quality may be lower than that of the Door Station included in the package, but this is not a malfunction.

*6 A total of up to 6 sub monitors and extension monitors can be registered to the main monitor. *7 Connectable to doorbell.

Comparison of the wiring



*1 When connecting 2 E-locks, an optional Door Station is required.

*2 Switch box included with the optional VL-VF580.

IP Video Intercom System for Apartment Complexes



Lobby Station

VL-VN1900

Pure IP lobby station with a colour LCD monitor and wide-angle camera. Elegant design and durable structure with a metallic panel.

Main Features

- **3.5-inch colour LCD monitor** (320x240 pixels)
 - Displays the resident's name
 - On-screen user guidance
- **Wide angle camera**
 - Wide view of 120 degrees (horizontal), 72 degrees (vertical)
 - Mechanical adjustment (up to +/- 15 degrees vertically)
 - 2.0 M pixels provide a clear image
- **E-lock unlocking function**
 - Unlock the public door by using an IC card (Built-in MIFARE® RFID)
 - Unlock the public door by using a PIN code for each residence

Other Features

- Strong and elegant exterior with an aluminium panel
- IP55, compliant with IK07
- Phonebook (Room-No., Resident's names)
- Theft detection buzzer



Room Monitor

VL-MN1000

Pure IP room monitor with 7-inch wide LCD and touch screen.

Main Features

- **7-inch wide LCD with capacitive touch screen**
 - Provides a clear image on the wide screen
 - Accurate and smooth operation via a capacitive touch screen
- **IP camera monitor**
 - Monitors various areas using a Panasonic Network Camera (Supported devices: Panasonic i-PRO series, E-series)
- **Standard PoE is supported**
 - Power can be supplied via Ethernet cable (PoE)
 - Power Supply Unit also available (VL-PS240 is sold separately)

Other Features

- Video messages from the Lobby Station: up to most recent 50
- Manual recording (videos): up to most recent 50
- Auto/manual recording (still images): up to most recent 100
- E-lock unlocking (both individual and public doors)
- 5 sensor inputs (emergency/urgency button and other sensors) and 1 door bell input

One Panasonic Solution

Greater peace of mind with interconnected Panasonic IP products



IP Camera / Network Camera

Monitoring



Operation Specification

- Codec Format: H.264 (Fixed)
- Image Resolution: 720p (1280x720 pixels) or less
- Frame Rate: 20 fps or less

Recommended Models*

- E-series, i-PRO series

SIP Phone

Communication



Recommended Model-No.*

- KX-HDV430 (Video and Audio)**
- KX-HDV230 (Audio)
- KX-HDV130 (Audio)

** Requires changing Lobby Station bit rate to 1 Mbps for optimal video quality

NVR

Recording



Operation Specification

- Codec Format: H.264 (Fixed)
- Image Resolution: 720p (1280x720 pixels) WVGA (800x480 pixels) D1 (704x576 pixels)
- Frame Rate: 3/25/30 fps

Recommended Models*

- E-series

* Consult your certified Panasonic dealer for more information. For the latest compatible IP cameras and SIP Phones, visit <http://panasonic.net/pcc/support/intercom/>.



Door Station

VL-VN1500

Pure IP door station with a wide-angle camera and RFID reader. Simple and sleek design.

Main Features

- **Wide-angle camera**
 - Wide view of 113° degrees (horizontal), 69° degrees (vertical)
 - 1.3 M pixels provide a clear image
- **E-lock unlocking function**
 - Unlock the individual doors by using an IC card (Built-in MIFARE RFID)
 - * Relay box is required when connecting an E-lock to the door station. (VL-RLY1 is sold separately)
- **Standard PoE is supported**
 - Power can be supplied via Ethernet cable (PoE)
 - Power Supply Unit also available (VL-PS240 is sold separately)

Other Features

- Night vision with white coloured LED lights
- Theft detection buzzer



Control Box

VL-VN1700

Up to 2000 devices* are supported. Panasonic SIP Phone is available in the system. * Includes setup tool for mass configuration of 2000 devices

Main Features

- **Embedded SIP server**
 - Supports 2000 SIP devices (Lobby Station, Door Station, Room Monitor and Panasonic SIP Phone)
- **Voice mail**
 - Voice mails can be issued by the SIP Phone to each room or grouped rooms

Other Features

- E-mail notification* Even if the guard is out, voice mails from residents to the guard station (SIP Phone) can be forwarded via e-mail, enabling quick access to important voice mail

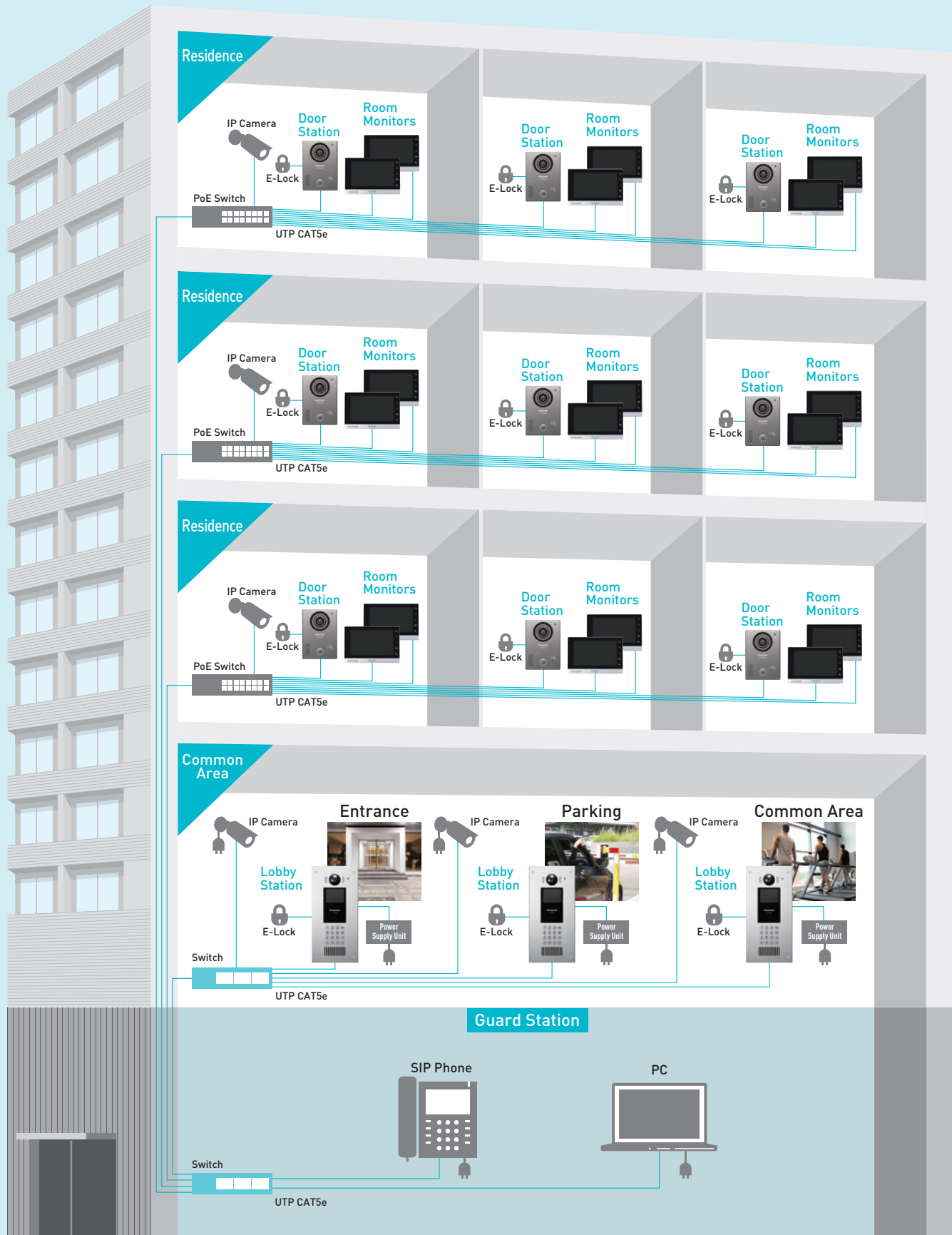
* External mail server and an internet connection are required.

System Diagram of the Apartment System

Support up to 200 devices on a system without a Control Box

FUNCTION

- 200 SIP devices are supported
- Send text mail from control room to all monitors
- Multiple sessions are supported
- Easy setup by PC tool



Support up to 2,000 devices on a system with a Control Box

FUNCTION

- 2,000 SIP devices are supported
- Send voice mail from control room to all monitors
- Multiple sessions are supported
- Easy setup by PC tool
- E-mail notification



* E-lock for Door Station requires Relay Box [Sold separately. Model-No. VL-RLY1]

Panasonic

VL-V900

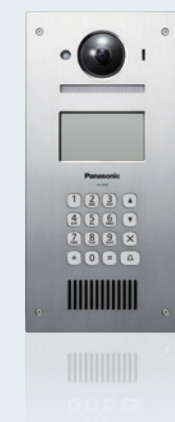
Analogue Video Intercom System for Apartment Complexes



Lobby Station

VL-V900

Doorphone for the public entrance of housing complexes. Destination display, calling, conversation, electric lock

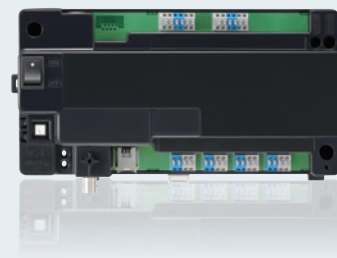


Features

- Guidance (simple usage for visitors)
- Wide angle camera : Horizontally: approx. 170°
Vertically: approx. 115°
- Heat sensor: The backlight of the display and buttons are turned on when a visitor is detected.
- 4.3-inch LCD / white backlit LCD
- Blue LED backlit buttons
- White coloured LED lights for night colour vision
- Unlock with PIN-code
- Room number and name registration
- Room owner name display

Connectable devices

- Security camera
- Electric lock
- Access control



Control Box

VL-V700

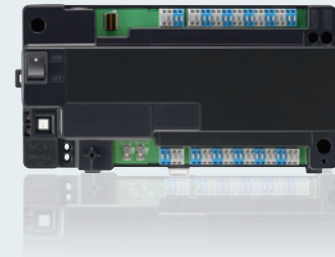
Device for controlling the entire system

Features

- Easy setup (Room number registration)
- Easy connection check
(Check connections between the control box and main monitor of each room)
- Real time monitoring
- Log (SD card recording)
Text log: More than 90,000 items (date, caller, receiver, operation, status)
Image log: Up to 90,000 images (overwrite save) (visitors call)

Connectable devices

- PBX
- PC (for program settings)
- Monitor (for real time monitoring)



Distribution Box

VL-V701

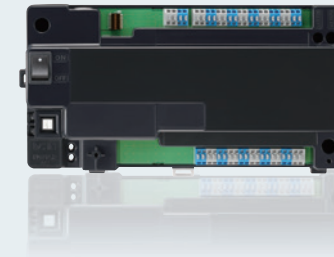
Functions as a distribution box or repeater.
The function can be switched with a DIP switch.

Role as a distribution box

A distribution box for connecting the control box with the main monitor of each room.

Role as a repeater box

A repeater box for amplifying the signal when the control box and main monitor are far away from each other.
Only one can be connected between the control box and distribution box #7.



Lift Controller

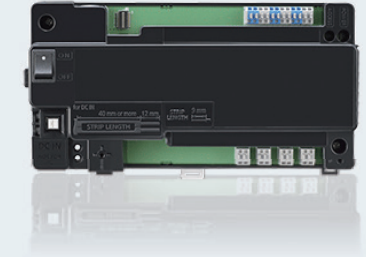
VL-V702

Controlling the destination of lifts
Controlling the destination (floor) of visitors by linking with the lift and lift control box.

Supported control methods

- 1:1 control (Relay signalling)
- Binary control

*The supported control method depends on the specifications of the lift and lift control box.
Contact the lift manufacturer for details.



Extension Box





VL-V703

Device for extending the lobby stations.

Features

- Up to 18 lobby stations connectable
- Up to 3 extension boxes per control box
- Up to 6 lobby stations per extension box

Main Monitor Line Up

	VL-MWD272	VL-MW251	VL-MVN511	VL-MV26
				
Power source	220-240 V AC [50/60 Hz]	100-240 V AC [50/60 Hz]	Power supply unit [VL-PS240] 24 V DC, 0.5 A	Power supply unit [VL-PS240] 24 V DC, 0.5 A
Power consumption	Standby: Approx. 2.5 W During operation: Approx. 10 W	Standby: Approx. 1.8 W During operation: Approx. 12 W	Standby: Approx. 1.8 W During operation: Approx. 10 W	Standby: Approx. 1.2 W During operation: Approx. 8 W
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	190 x 165 x 38 mm	186 x 161 x 23.5 mm	169 x 129 x 29 mm
Weight	825 g*1	785 g*1	485 g	330 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C, Relative humidity (non-condensing): up to 90 %			
Display	7-inch wide colour / WQVGA (800x480 pixels)	5-inch wide colour / WQVGA (480x272 pixels)	5-inch wide colour / WQVGA (480x272 pixels)	3.5-inch colour / QVGA (320x240 pixels)
Display language	English, Arabic	English	English, Arabic	English
Frequency range	1.88 GHz to 1.90 GHz	2.402 GHz to 2.481 GHz	IEEE 802.11 b/g/n 2.4 GHz	-
Installation method	Wall mount (mounting bracket supplied)			
External material	Flame retardant PC+ABS resin, Flame retardant ABS resin	Flame retardant ABS resin	Flame retardant ABS and PS resin	Flame retardant ABS resin
Supported functions				
Door station Door bell	1 door station input (VL-V522L, VL-V555, VL-V554/V554U) 1 door bell input	1 door station input (VL-V522L, VL-V566)	1 door station input (VL-V522L, VL-V566, VL-V555, VL-V554/V554U) 1 door bell input	- 1 door bell input
Electric lock release support	Up to 2 (for individual x 1, for public x 1)	Up to 2 (for individual x 1, for public x 1)	Up to 2 (for individual x 1*, for public x 1)	Up to 1 (for public x 1)
Picture recording	Up to 400 images (up to 50 visitors (up to 8 still images per visitor))	Up to 400 images (up to 50 visitors (1 or 1-8 still images per visitor))	Up to 400 images (up to 50 visitors (up to 8 still images per visitor))	Up to 30 images (up to 30 visitors, 1 shot per visitor)
Voice changer	Yes	Yes	Yes	-
Pan, Tilt, Zoom	Pan, Tilt, Zoom (for VL-V900, VL-V555, VL-V554/V554U)	Pan, Tilt, Zoom (for VL-V900)	Pan, Tilt, Zoom (for VL-V900, VL-V555, VL-V554/V554U)	-
Wireless monitor	Up to 6 [VL-WD613]*3	Up to 4 [VL-W605]	-	-
Extension monitor	Up to 3 [VL-MWD272]*3	-	-	-
Repeater	Up to 2 [VL-FKD2]	Up to 2 [VL-FAN1]	-	-
Smartphone connect	-	-	Up to 4	-
E-mail notification	-	-	Up to 4*4	-
Intercom call	Yes (between main monitor, sub monitor, and extension monitor)	Yes (between main monitor and sub monitor)	-	-
Other functions	• Guard call • Monitor security camera • Emergency call	• Guard call • Monitor security camera	• Guard call • Monitor security camera • Emergency call	• Guard call • Monitor security camera • Emergency call

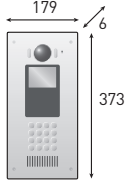
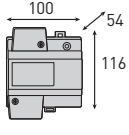
*1 Including AC cable. The weight of the AC cable differs depending on the region.



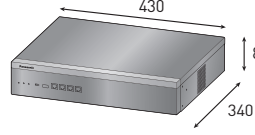
*2 VL-RLY1 is required.

*3 When sub monitors and extension monitors are used together, a total of up to 6 sub monitors and extension monitors can be registered.

*4 The main monitor must be connected to a wireless router that is connected to the Internet in order to use email feature.

VL-VN1900 series (IP Video Intercom System for Apartment Complexes)

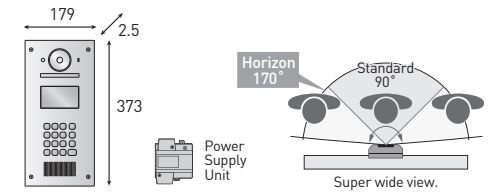
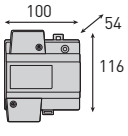
Model number and name	VL-VN1900	
	Lobby Station	Power Supply Unit (VL-PS240)
Dimensions (Unit: mm)		
Power source	Power supply unit (VL-PS240) 24 V DC, 0.6 A	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A
Power consumption	Standby: 3.5 W, During operation: 8.5 W	—
Dimensions (H x W x D) (Excluding protruding sections)	373 x 179 x 6 mm (excluding sections embedded into the wall)	116 x 100 x 54 mm
Weight	1.5 kg	230 g
Operating environment	Ambient temperature: Approx. -10 °C to +55 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)
Display	3.5-inch colour display (320x240 pixels)	—
Display language	English, Arabic, French, Italian, German, Spanish and Dutch Only user guidance supports multiple language Resident's names are only in English	—
Talking method	Hands-free	—
Network interface	10BASE-T/100BASE-TX (Auto MDI/MDI-X)	—
Network protocol	TCP/IP, UDP	—
Wiring	UTP (cat.5e or higher)	—
Card reader (RFID)	13.56 MHz (ISO/IEC 14443 Type A (MIFARE))	—
Expanded interface	Support for electric lock releasing (entrance unlocking) x 1	—
Viewing angle	Horizontally: Approx. 120°, Vertically: Approx. 72° (15° angle adjusting, vertical only)	—
Image sensor	2.0 M pixels CMOS sensor	—
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	—
Lighting method	White coloured LED lights	—
SIP server	Embedded SIP server (up to 200 devices)	—
Video / Audio format	Video: H.264, Audio: G.711	—
IP rating / IK rating	IP55** / Compliant with IK07	—
Installation method	Flush mount (flush mounting box supplied)	Wall mount or attach to DIN rail
External material	Aluminium	Flame retardant PC+ABS resin
Supported functions	<ul style="list-style-type: none"> Room numbers using numbers 0 through 9 and letters A through F Phonebook (Room-No., Resident's name) Theft detection buzzer Unlock lobby door via a PIN code or RFID card (MIFARE) Reception mode Display a BMP file set by the user (320x180 pixels) 	—

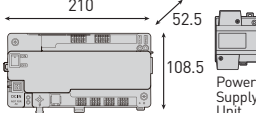
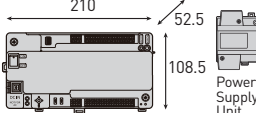
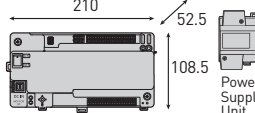
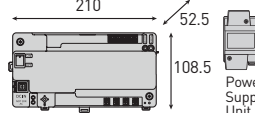
Model number and name	VL-VN1500	VL-MN1000	VL-VN1700
	Door Station	Room Monitor	Control Box
Dimensions (Unit: mm)			
Power source	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240*) 24 V DC, 0.6 A	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240*) 24 V DC, 0.6 A	100-240 V AC, 0.95-0.6 A, 50/60 Hz
Power consumption	PoE: Standby: 2.5 W / During operation: 5.1 W VL-PS240: Standby: 2.6 W / During operation: 6.3 W	PoE: Standby: 1.9 W / During operation: 6.3 W VL-PS240: Standby: 2.1 W / During operation: 6.2 W	Under 50 W
Dimensions (H x W x D) (Excluding protruding sections)	141 x 100 x 28.5 mm	137.5 x 205 x 27.8 mm	88 x 430 x 340 mm
Weight	250 g	550 g	4.5 kg
Operating environment	Ambient temperature: Approx. -10 °C to +55 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	—	7-inch wide colour display with touch screen (800x480 pixels)	—
Display language	—	English, Arabic, French, Italian, German, Spanish and Dutch	—
Talking method	Hands-free	Hands-free	—
Network interface	10BASE-T/100BASE-TX (Auto MDI/MDI-X)	10BASE-T/100BASE-TX (Auto MDI/MDI-X)	10BASE-T/100BASE-TX/1000BASE-T (Auto MDI/MDI-X)
Network protocol	TCP/IP, UDP	TCP/IP, UDP	TCP/IP, UDP
Wiring	UTP (cat.5e or higher)	UTP (cat.5e or higher)	UTP (cat.5e or higher)
Card reader (RFID)	13.56 MHz (ISO/IEC 14443 Type A (MIFARE))	—	—
Expanded interface	E-lock x 1 *Relay box VL-RLY1 is required (sold separately)	Sensor input x 5 (including emergency / urgency button)	—
Viewing angle	Horizontally: Approx. 113°, Vertically: Approx. 69°	—	—
Image sensor	1.3 M pixels CMOS sensor	—	—
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	White coloured LED lights	—	—
Video / Audio format	Video: H.264, Audio: G.711	Video: H.264, Audio: G.711	—
Recording	—	Internal memory (video with audio can be saved)	—
IP rating / IK rating	IP54** / —	—	—
Installation method	Surface mount (mounting base supplied)	Surface mount (mounting bracket supplied) or Flush mount (mounting box VL-VN1790 sold separately)	Mountable to 19-inch racks
External material	PC+ABS resin	PC+ABS resin	Front Cabinet: ABS, Lower / Upper Cabinet: Steel
Supported functions	<ul style="list-style-type: none"> Unlock individual doors via the RFID card (MIFARE) Theft detection buzzer 	<ul style="list-style-type: none"> Monitoring through the IP camera Emergency / Urgency call, Sensor, Door bell Intercom calls between monitors (family or neighbours) Calls to SIP Phones (guard station, reception, etc.) Register up to 32 IP cameras per monitor Register up to 18 SIP Phones per monitor 	<ul style="list-style-type: none"> Voice mail E-mail notification Supports up to 2000 SIP devices (embedded SIP server)

*1 Water resistance is only assured if lobby station/the doorphone installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.

*2 VL-PS240 is sold separately.

VL-V900 series (Analogue Video Intercom System for Apartment Complexes)

Model number and name	VL-V900	VL-PS240
	Lobby Station	Power Supply Unit
Dimensions (Unit: mm)		
Power source	Power supply unit (VL-PS240) 24 V DC, 0.2 A	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A
Power consumption	Standby: Approx. 1.9 W During operation: Approx. 4.5 W	—
Dimensions (H x W x D) (Excluding protruding sections)	373 x 179 x 2.5 mm (excluding sections embedded into the wall)	116 x 100 x 54 mm
Weight	2.0 kg	230 g
Operating environment	Ambient temperature: Approx. -10 °C to +55 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)
Display	4.3-inch monochrome display (white backlight LCD)	—
Display languages	English	—
Talking method	Hands-free	—
Expanded interface	Support for electric lock releasing (entrance unlocking) x 1 VIDEO-IN (recommended Panasonic security camera) x 1	—
Viewing angle	Horizontally: Approx. 170° Vertically: Approx. 115°	—
Image sensor	[1/4 inch] CMOS sensor (approx. 1 M pixels)	—
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	—
Lighting method	White coloured LED lights	—
IP rating / IK rating	IP55** / Compliant with IK07	—
Installation method	Flush mount (flush mounting box supplied)	Wall mount or attach to DIN rail
External material	Stainless steel (partially ABS and PC)	Flame retardant PC+ABS resin
Supported functions	<ul style="list-style-type: none"> Guidance (simple usage for visitors) Night colour vision (white coloured LED lights) Heat sensor: The backlight of the display and buttons are turned on when a visitor is detected Display the resident's names Unlock with PIN-code 	—

Model number and name	VL-V700	VL-V701	VL-V702 ²	VL-V703
	Control Box	Distribution Box (Distribution mode / Repeater mode)	Lift Controller	Extension Box
Dimensions (Unit: mm)				
Power source	Power supply unit (VL-PS240) 24 V DC, 0.2 A			
Power consumption	Standby: Approx. 3.5 W During operation: Approx. 3.7 W	Standby: Approx. 1.2 W During operation: Approx. 2.0 W	Standby: Approx. 0.4 W During operation: Approx. 4.4 W	Standby: Approx. 1.5 W During operation: Approx. 1.5 W
Dimensions (H x W x D) (Excluding protruding sections)	108.5 x 210 x 52.5 mm			
Weight	400 g			
Operating environment	Ambient temperature: -10 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)			
Installation method	Wall mount or attach to DIN rail			
External material	ABS (flame retardant ABS resin)			
Log	Save the text logs and visitors' images in the SD card (sold separately) Text logs: More than 90,000 items Images: Up to 90,000 images	—	—	—
Supported functions	USB connection (provide PC application/English) • date and time setting (HH:MM DD/MM/YYYY) • set the room number to the monitor • estimate the status of the equipment in the system • operation setting (terminal, pass code, and so on.) SD card (SDHC/SDXC): Log function VIDEO OUTPUT (NTSC up to 1) RJ-11: Connect with PBX system	Dip switch • Mode change (Distribution mode/Repeater mode) • Termination setting (Normal/Terminal) • ID setting (1-7 by binary number)	Supported control methods • 1:1 control (Relay signalling) • Binary control	Extend Lobby Stations

*1 Water resistance is only assured if the lobby station is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.

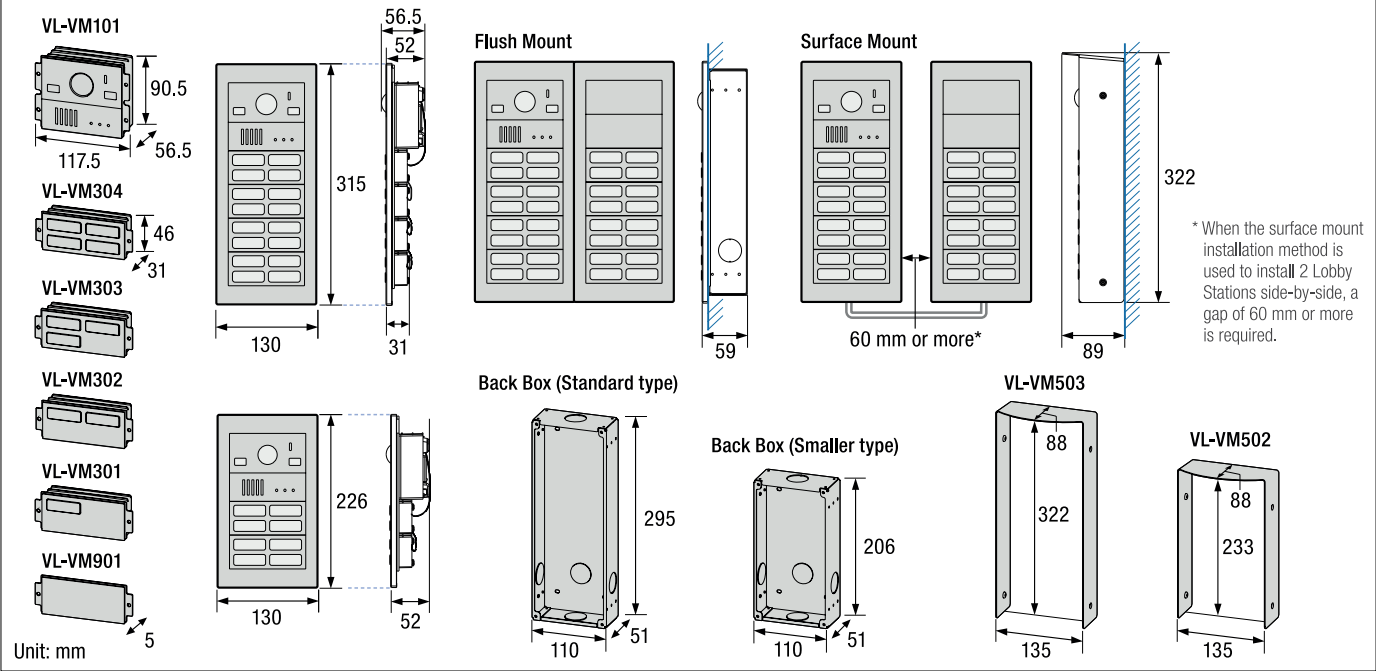
*2 The supported control method depends on the specifications of the lift and lift control box. Contact the lift manufacturer for details.

Specifications

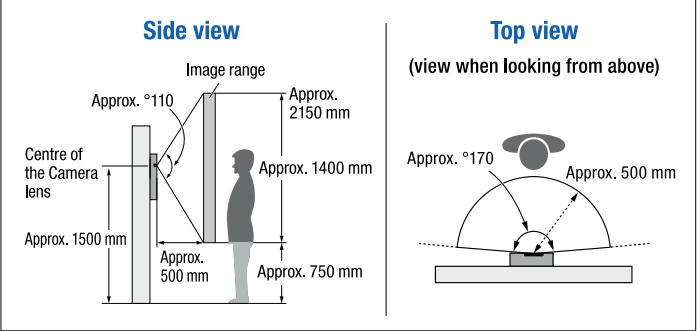
Model name	Lobby Station	VL-VM701 (Distributor)	VL-PS2410 (Power Supply Unit 2.5A type)
Power source	Power supply unit: VL-PS24) 240V DC, 0.6A) or VL-PS24) 2410V DC, 2.5A)	Power supply unit: VL-PS24) 240V DC, 0.6A) or VL-PS24) 2410V DC, 2.5A)	Input: 240-220 V AC, 1 A (60/50 Hz) Output: 24V DC, 2.5 A
Power consumption	VL-VM101 Standby: T.B.D. , Operating: T.B.D. VL-VM301/VM302/VM303/VM304 Standby: T.B.D. , Operating: T.B.D.	Standby: T.B.D. Operating: T.B.D.	-
Dimensions (H x W x D) (Excluding protruding sections)	Flush mount (small): 226 x 130 x 59 ^{*1} (large): 315 x 130 x 59 ^{*2} Surface mount (small): 233 x 135 x 89 ^{*3} (large): 322 x 135 x 89 ^{*4}	133 x 210 x 51 mm	116 x 210 x 58 mm
Weight	Flush mount (small): 1.3 kg ^{*1} (large): 1.7 kg ^{*2} Surface mount (small): 1.6 kg ^{*3} (large): 2.2 kg ^{*4}	440 g	550 g
Operating environment	Ambient temperature: Approx. 15- °C to 55+ °C, Relative humidity (non-condensing): Up to 90 %	Ambient temperature: Approx. 10- °C to 55+ °C Relative humidity (non-condensing): Up to 90 %	Ambient temperature: Approx. 0 °C to 50+ °C Relative humidity (non-condensing): Up to 90 %
Talking method	Hands-free	-	-
Viewing angle	Horizontally: Approx. °170 Vertically: Approx. °110	-	-
IP rating / IK rating	IP55 ^{*5} / Compliant with IK08	-	-
Installation method	Flush mount (using Back Box) or Surface mount (using Back Box and Surface Mount Cover)	-	Wall mount or attach to DIN rail
Image sensor	(4/1 inch) CMOS sensor (approx. 1.0 M pixels)	-	-
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	-	-
Lighting method	White coloured LED lights	-	-
External material	Aluminium (partially PC and ABS)	ABS (flame retardant ABS resin)	Flame retardant PC+ABS resin
Expanded interface	Support for electric lock releasing (entrance unlocking) x 1	-	-
Supported functions	• Night colour vision (white coloured LED lights)	-	-

^{*1} Includes (VL-VM101 x 1pcs.) + (VL-VM304 x 2pcs.) + VL-VM602 (small type)
^{*2} Includes (VL-VM101 x 1pcs.) + (VL-VM304 x 4pcs.) + VL-VM603 (large type)
^{*3} Includes (VL-VM101 x 1pcs.) + (VL-VM304 x 2pcs.) + VL-VM602 + VL-VM502 (small type) ^{*4} Includes (VL-VM101 x 1pcs.) + (VL-VM304 x 4pcs.) + VL-VM603 + VL-VM503 (large type)
^{*5} Water resistance is only assured if the product is installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.

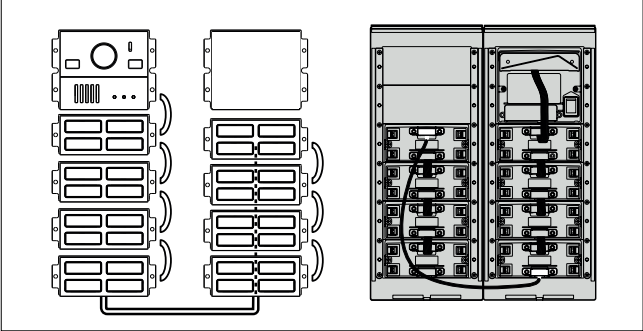
Dimensions



Installation Position and Camera Range



Connecting 2 frames of a Lobby Station Using the Extension Cable



• The actual product may vary slightly from photograph.
• Weights and dimensions are approximate.
• Design and specifications are subject to change without notice.
• These products may be subject to export control regulations.

Important
- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.



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Video Intercom System
VL-VM series



Key Features

Stylish and Tough

- Using a hairline finished panel, the Lobby Station pursues simplicity and ease-of-use through an elegant and relaxed design. The stylish Lobby Station greets both owners and visitors alike, providing users with a higher-grade lifestyle.
- The superior design of the large call button features an integrated nameplate and backlight, making it visible in the dark and enhancing its operability and visibility.
- Machined aluminium panels are used to achieve a dust- and water-resistant design with superior durability (IP55/Compliant with IK08), in addition to low/high temperature resistance from °15-C to °55+C.

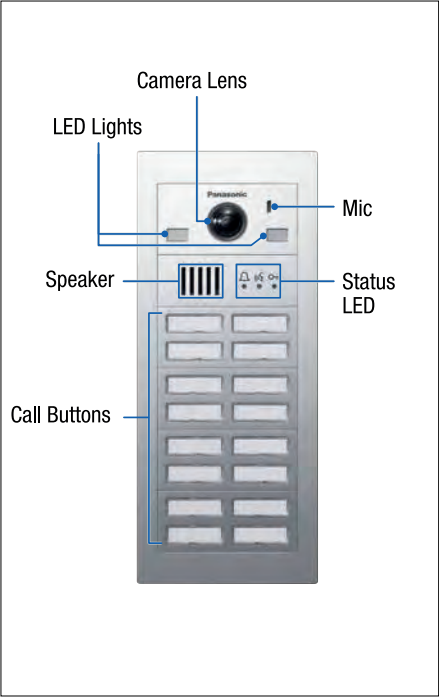
Easy Installation

- Its compact design allows it to be installed in a variety of locations. It is also the ideal choice when replacing pre-existing Lobby Stations due to its small installation footprint.
- An adaptable modular design is used. A flexible system that accommodates up to 32 rooms can be designed by combining call button modules.
- The Lobby Station supports the two main wiring methods (Star/Bus), giving you a new option when installing a new system, or allowing you to use your existing method. In addition, the -2wire, non-polar cabling simplifies installation.

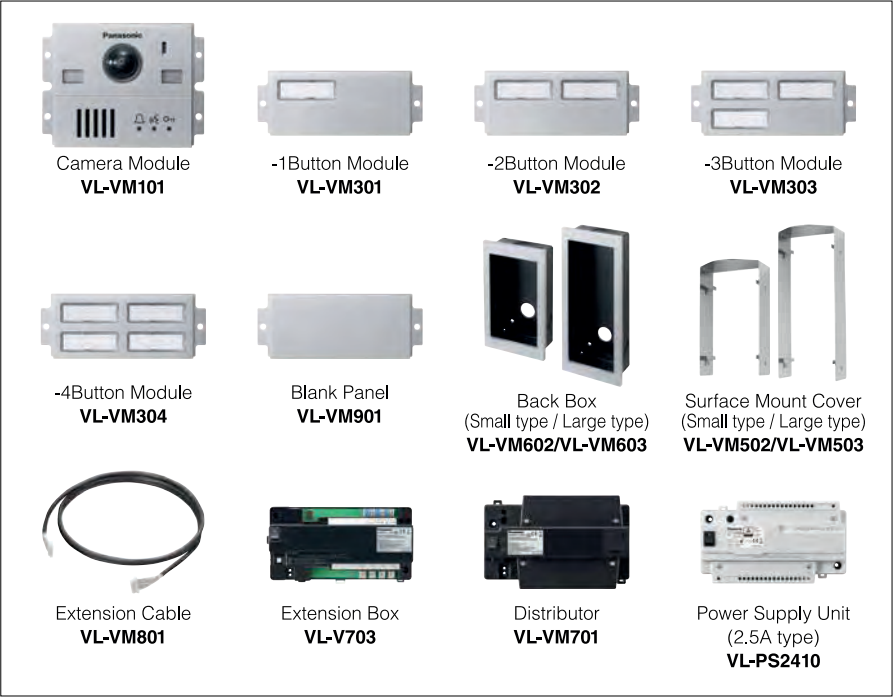
Easy Maintenance

- Our unique front-access nameplates are easily changed, even after the Lobby Station is installed. This preserves the aesthetic of your entrance.
- Others**
- Security features, including a wide-angle lens that helps prevent unauthorized access by expanding the field-of-view, are included to provide users with peace of mind. An electronic lock release function is also supported, allowing users to unlock the door from inside the house when visitors arrive.
 - You can choose a monitor that best fits your budget and purpose from our diverse line-up.

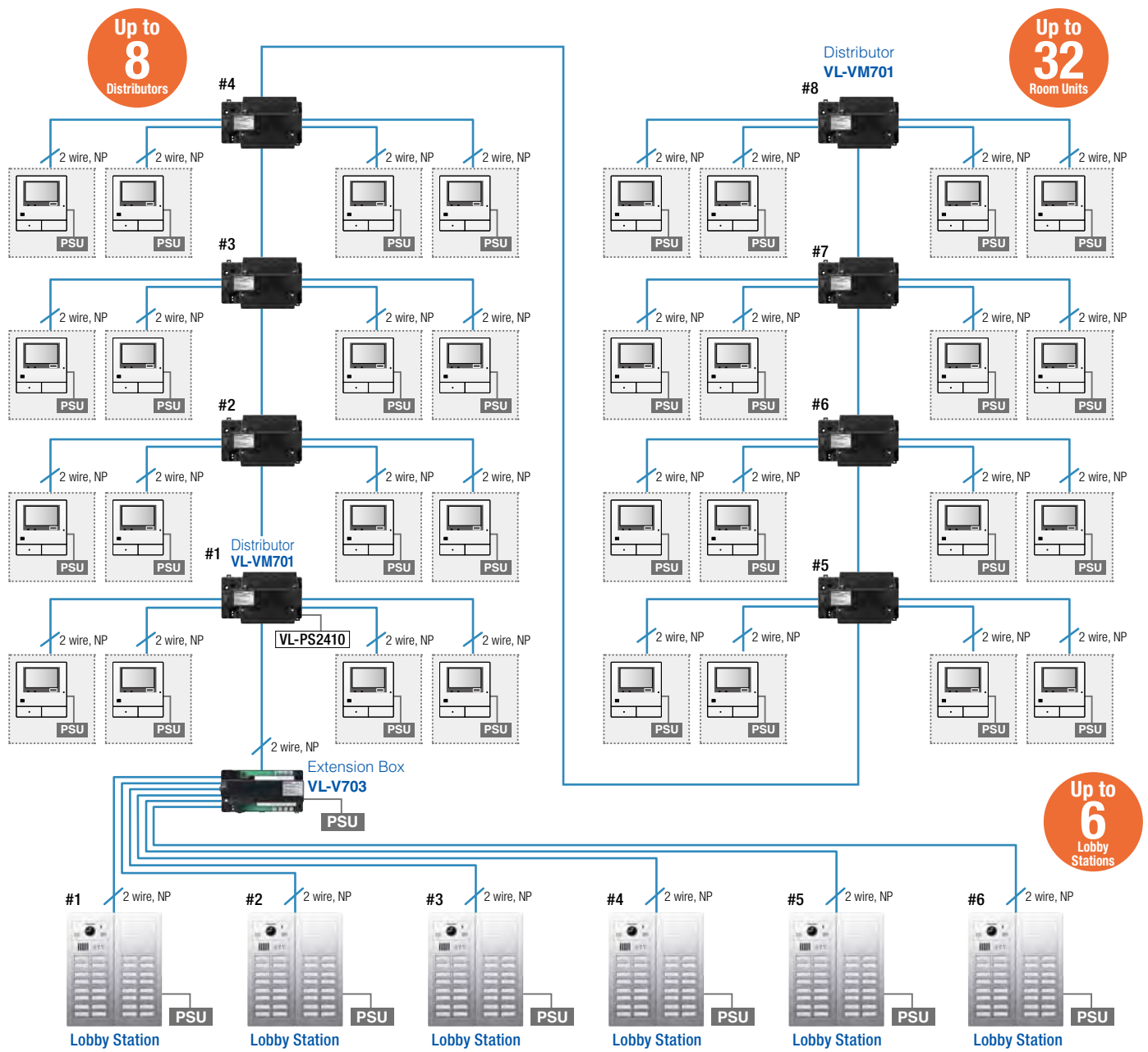
Device Diagram



Module Lineup



Bus Wiring



Wiring distance: Lobby Station – Farthest Distributor Up to 100 m (Ø0.65) / Up to 200 m (Ø1.20)
Distributor – Farthest Monitor Up to 100 m (Ø0.65) / Up to 200 m (Ø1.20)

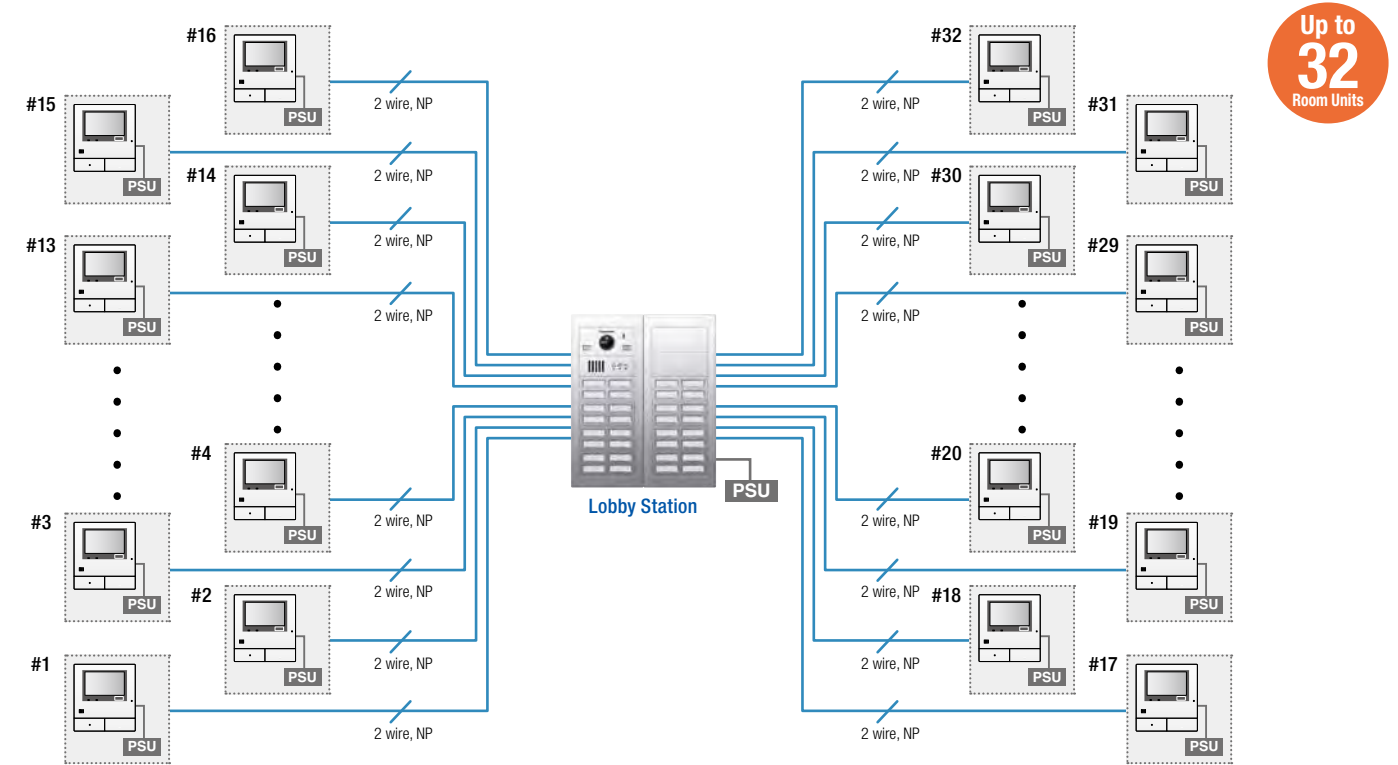
NP: Non-Polar PSU: Power Supply Unit (VL-PS2410 or VL-PS240)

Lobby Station Components

(Unit: pcs)									
Number of call buttons	32	28	16	13	24	16	8	7	6
VL-VM101	1	1	1	1	1	1	1	1	1
VL-VM301				1					
VL-VM302									1
VL-VM303								1	
VL-VM304	8	7	4	3	6	4	2	1	1
VL-VM901	2	3				2			
VL-VM502/VM503	VL-VM503: (2) *1		VL-VM503: (1) *1		VL-VM502: (2) *1		VL-VM502: (1) *1		
VL-VM602/VM603	VL-VM603: 2		VL-VM603: 1		VL-VM602: 2		VL-VM602: 1		
VL-VM801	1	1			1	1			

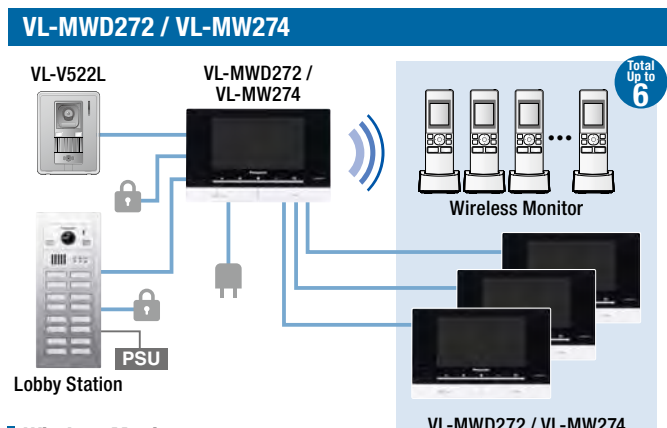
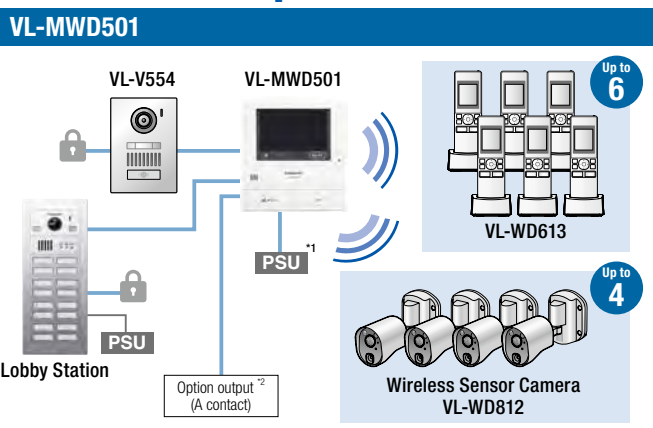
*1 When the flush mount installation method is used, a surface mount cover (VL-VM502/VM503) is NOT required.

Star-shaped Wiring

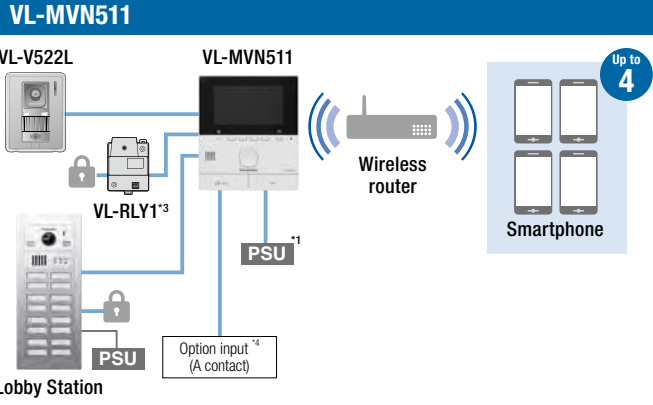


Wiring distance: Lobby Station – Monitor Up to 100 m (Ø0.65) / Up to 200 m (Ø1.20)

Monitor Lineup

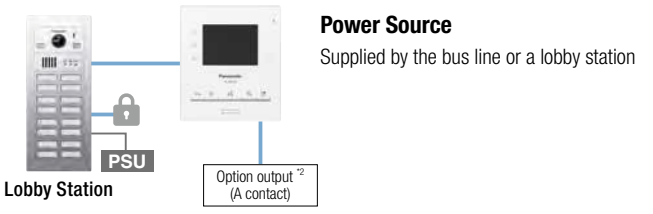


Wireless Monitor
VL-WD613 (DECT wireless monitor) for VL-MWD272
VL-W617 (2.4 GHz wireless monitor) for VL-MW274



Bus-powered type monitor

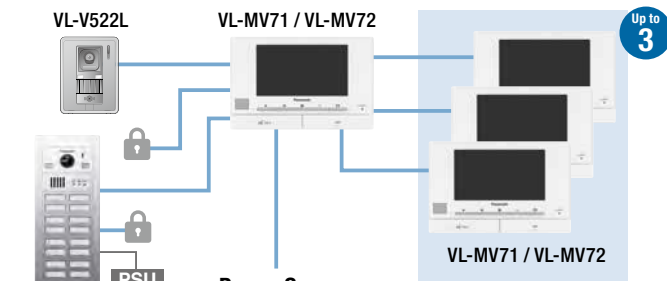
* Released in 2018



Power Source
Supplied by the bus line or a lobby station

VL-MV71 / VL-MV72

* Wireless monitors NOT supported



Power Source
VL-MV71: 220-240 V AC, 50/60 Hz
VL-MV72: 24 V DC Power supply unit (supplied)

PSU: Power Supply Unit

*1 Power Supply Unit is included with a monitor.
*2 Devices that can be connected to the option output: doorbell light, door chime, rotating light, etc.
*3 Relay Box (VL-RLY1) is NOT included with a single unit Monitor (VL-MVN511).
*4 Option inputs can be used to connect 2 sensors.