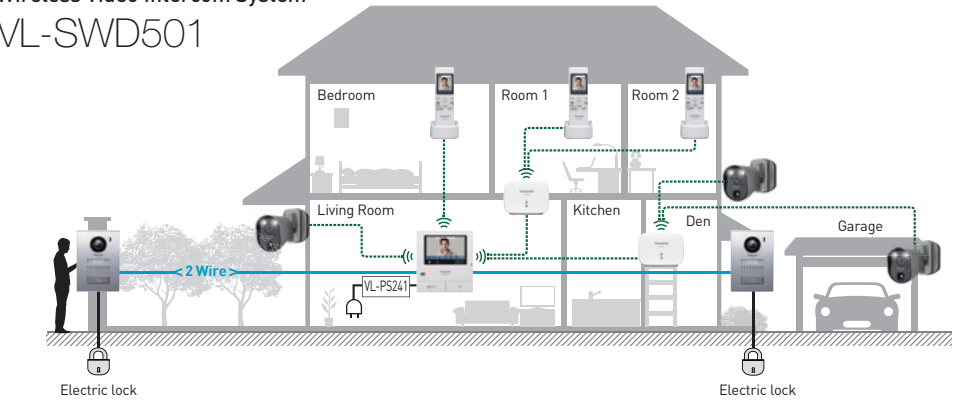


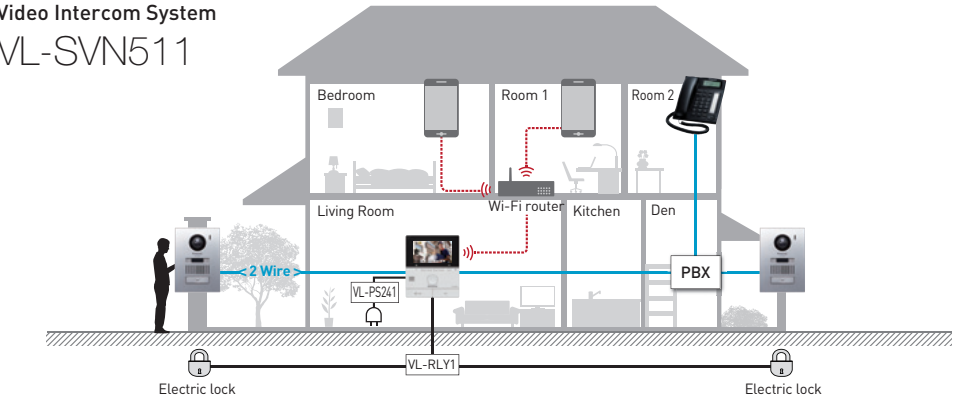
System Configuration Example

Wireless Video Intercom System  
VL-SWD501



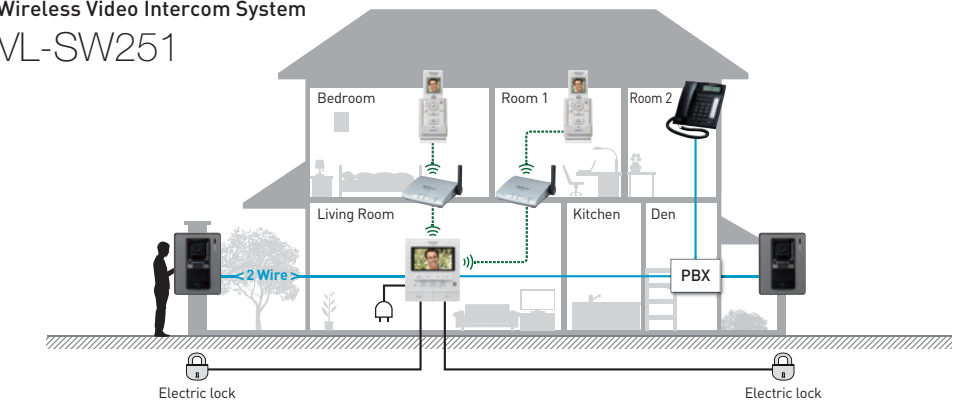
System Units	
Main Monitor Station VL-MWD501	Wireless Monitor Station VL-WD613 Up to 6
Door Station VL-V554 Up to 2	DECT Repeater VL-FKD2 Up to 2
Wireless Sensor Camera VL-WD812 Up to 4	

Video Intercom System  
VL-SVN511



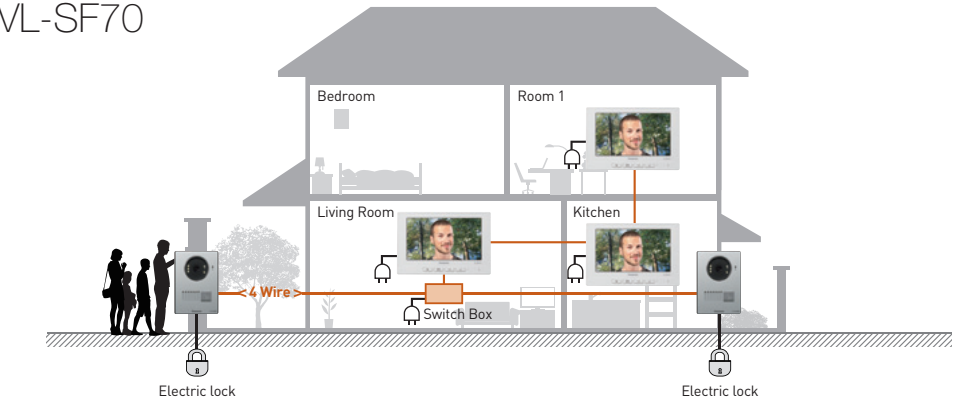
System Units	
Main Monitor Station VL-MVN511	Door Station VL-V555 Up to 2
Mobile Devices Up to 4	Panasonic PBX This image shows the KX-NS500. Please consult your dealer when connecting with a PBX.

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/VL-FAN2* Up to 2 * for India
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.

Wired Video Intercom System  
VL-SF70



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

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- Wi-Fi is a trademark or registered trademark of Wi-Fi Alliance.  
- iPhone and iPad are trademarks of Apple Inc., registered in the U.S. and other countries.  
- Android is a trademark of Google Inc.  
- SD, SDHC and SDXC Logos are trademarks of SD-3C, LLC.  
- The software of the sub monitor is based in part on the work of the Independent JPEG Group.  
All other trademarks identified herein are the property of their respective owners.  
**Important**  
- Safety Precaution: Carefully read the operating instructions and installation manual before using this product.

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

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**Panasonic**

VIDEO INTERCOM SYSTEM  
LINE-UP CATALOGUE





# VIEW AND TALK FLEXIBLY

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



## Stylish Premium Wireless Model VL-SWD501



Door Station x 1, Main Monitor x 1,  
Wireless Sub Monitor x 1

## Smartphone Connect Model VL-SVN511



Door Station x 1,  
Main Monitor x 1

## Standard Wireless Model VL-SW251



Door Station x 1, Main Monitor x 1,  
Wireless Sub Monitor x 1

## 7-inch Wired Model VL-SF70



Door Station x 1, Monitor x 1

### Comparison Chart

Model Number		VL-SWD501	VL-SVN511	VL-SW251	VL-SF70
Maximum Connectable Units	Main Monitor	1	1	1	3
	Smartphone/Tablet	—	● (4)*1	—	—
	Wireless Sub Monitor	6 (DECT)	—	4 (2.4 GHz)	—
	Door Station (Doorphone)	2	2	2	2
Recording	Movie/Picture Recording	●/●	—/●	—/●	—/●
	SD Card Recording	●	—	—	—
Connectable Devices	Wireless Sensor Camera	● (4)	—	—	—
	Electric Lock Release (Door Opener)	● (2)*2	● (2)	● (2)*2	● (2)*2
	Panasonic PBX	—	●	●	—
	Repeater	● (2)	—	● (2)	—
Others	Night Vision (LED Light)	●	●	●	●
	Touch Panel/Pan & Tilt	●	—	—	—
	Wide Angle Camera	●	●	—	—
	Intercom Call	● (Wireless)	—	● (Wireless)	● (Wired)
	Voice Changer	●	●	●	—

\*1 The main monitor must be on the same home Wi-Fi network as a smartphone/tablet (with the dedicated app installed).

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

## Stylish Premium Wireless Model

### Wireless Video Intercom System

## VL-SWD501

Door Station  
VL-V554

Up to  
2

Main Monitor Station  
VL-MWD501

5-inch  
Wide Screen

Wireless Monitor Station  
VL-WD613

Up to  
6



\* 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.

Up to  
6

Up to  
4



### 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.



### 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.



### Other Features

- Electric Lock Release Support : AC12V-1A/DC12V-1A
- Wide-Angle Camera (Horizontally:170°, Vertically:115°)
- SD Card Recording (Stores up to 3,000 video recordings, each 30 sec in length)
- Wireless Sensor Cameras Connectable
- Flexible and Easy Expandability
- Easy Extension
- Voice Changer
- Intercom Call

### Options

Door Station (Doorphone) VL-V554 (Surface mount) Up to 2	Door Station (Doorphone) VL-V522L (Surface mount) Up to 2	Wireless Monitor Station (Sub Monitor) VL-WD613 Up to 6	Wireless Sensor Camera VL-WD812 Up to 4	DECT Repeater VL-FKD2 Up to 2	Lobby Station VL-V590 Up to 20 main monitors can be connected.
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## Smartphone Connect Model

Video Intercom System

# VL-SVN511



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

### 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.



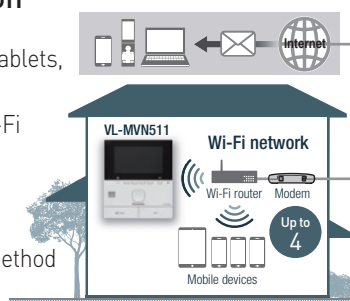
Answer Visitors and  
Unlock the Electric Locks



Monitoring

### Wi-Fi Connection

In addition to smartphones/tablets, the main monitor can also wirelessly connect to the Wi-Fi router for easy connections without a cable. You can configure Wi-Fi settings using a simplified method (called WPS).



### 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 400 images/50 visitors (8 shots 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/>

#### Options

<b>Door Station (Doorphone)</b> <b>VL-V555 (Surface mount)</b> CMOS 0.3 M pixels Up to 2	<b>Door Station (Doorphone)</b> <b>VL-V554 (Surface mount)</b> CMOS 1.0 M pixels Up to 2	<b>Door Station (Doorphone)</b> <b>VL-V522L (Surface mount)</b> Up to 2	<b>Lobby Station</b> <b>VL-V590</b> Up to 20 main monitors can be connected.	<b>PBX</b> This image shows the KX-NS500. Please consult your dealer when connecting with a PBX.
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\*1 The main monitor must be on the same home Wi-Fi 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.

## Wireless Standard Model

Wireless Video Intercom System

# VL-SW251



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

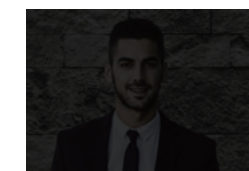
### Wireless Handset (2.4 GHz)

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.



Conventional



Equipped with LED light

### 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 : AC30V-1A / DC24V-1A (Door Opener)
- Voice Changer
- Intercom Call (between main monitor and sub monitor)

#### Options

<b>Door Station (Doorphone)</b> <b>VL-V522L</b> Up to 2	<b>Wireless Monitor Station (Sub Monitor)</b> <b>VL-W605</b> Up to 4	<b>Lobby Station</b> <b>VL-V590</b> Up to 20 main monitors can be connected.	<b>Repeater for Wireless Monitor</b> <b>VL-FAN1/VL-FAN2*</b> Up to 2 * for India	<b>PBX</b> This image shows the KX-NS500. Please consult your dealer when connecting with a PBX.
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**Connectable PBX Model Numbers**  
 KX-TDA30/100/100D/200/600 series  
 KX-TDE100/200/600 series  
 KX-NS300/500/700/1000 series

Please consult your dealer when connecting with a PBX.



## 7-inch Wired Model

Wired Video Intercom System

# VL-SF70

Door Station  
VL-VF580

Up to  
2

Monitor  
VL-MF70

7-inch  
Wide Screen

Up to  
3

< 4 Wire >

### 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 images of visitors can be recorded while you are away from home. This useful function provides high security when you are not at 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) : DC12V-1.5A
- Intercom Call (between monitors)

#### Options

Door Station (Doorphone)  
VL-VF580

Up to  
2



Monitor  
VL-MF70

Up to  
3



## Multi-Entrance System

1 by 4 Entrance System

# VL-VF540

### 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.

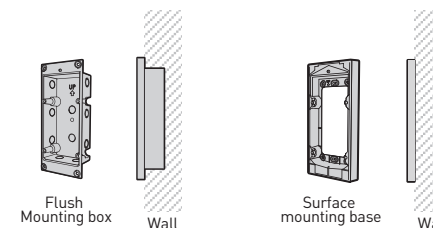
### Stylish and Tough

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

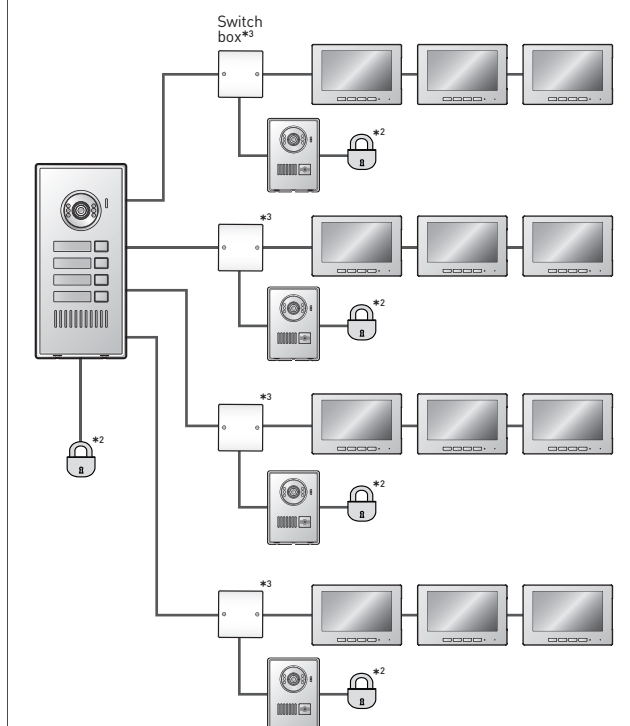


### Two Types of Mounting

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



### System Configuration Example



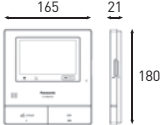
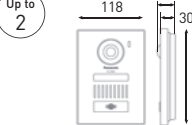

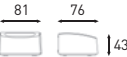
- Up to 4 groups/12 monitors can be connected
- 4 name plates
- Electric Lock Release Support (can be installed in front of each individual home in addition to the lobby)
- Night vision with LED lights and illumination sensor
- CMOS camera (Horizontally: Approx. 51° Vertically: Approx. 38°)

\*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)

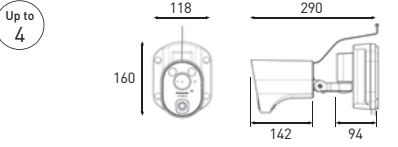

VL-SWD501

Model Composition



Model number and name	VL-MWD501	VL-V554 [Surface mount] VL-V554U [Flash 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	Power supplied by the main monitor 20 V DC, 0.23 A	Rechargeable Ni-MH (AAA x 2)	AC adaptor (PNLV226/PNLV226E) Input: 220-240 V AC, 0.1 A, 50/60 Hz 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 pixel)	—	2.2-inch, colour / QVGA (320x240 pixel)	—
Display language	English	—	—	—
Talking method	Hands-free	—	Hands-free	—
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz	—
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)	—	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 1.0 M pixels)	—	—
Viewing angle	—	Horizontally: Approx. 170° Vertically: Approx. 115°	—	—
Installation method	Wall mount (mounting bracket supplied)	VL-V554: surface mount (mounting base supplied) VL-V554U: flush mount (flush mounting box supplied)	—	—
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	—	—
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]
	Wireless Sensor Camera	DECT Repeater
Dimensions (Unit: mm)		
Power source	Power supply unit (VL-PS241) 24 V DC, 0.4 A	AC adaptor (PQLV219/PQLV219E) Input: 220-240 V AC, 0.1 A, 50/60 Hz    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)	82 x 111 x 39 mm
Weight	960 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 +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
Installation method	Wall mount (wall mount bracket supplied)	—
Transmitting range	Approx. 100 m (line-of-sight distance from the main monitor)	Approx. 100 m (line-of-sight distance from the main monitor)
Minimum illuminance required	1 lx*2	—
Image sensor	0.3 M pixel CMOS	—
Lighting method	2 white coloured LED lights*3	—
Angular field of view (camera angle)	Horizontal: Approx. 53°    Vertical: Approx. 41°	—
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	—
IP rating	IP54*1	—
Adjustable mounting angles	Horizontal: ±90°, vertical: facing forward - facing down approx. 60° (adjustable when mounting)	—
Heat sensor adjustable angles	Manually adjustable to 2 angles	—
External material	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.

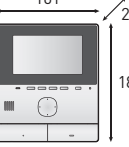
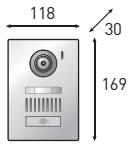
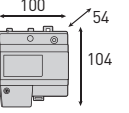
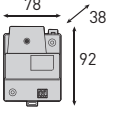
\*2 The minimum illuminance required when the camera's [Brightness] setting is set to [+3].

\*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-SVN511

Model Composition

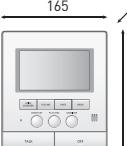
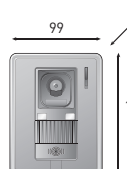
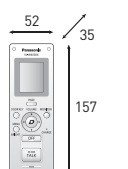
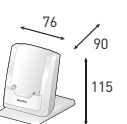


Model number and name	VL-MVN511	VL-V555	VL-PS241	VL-RLY1
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Power Supply Unit	Relay Box
Dimensions (Unit: mm)				
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A	Power supplied by the main monitor	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A	Power 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	169 x 118 x 30 mm	104 x 100 x 54 mm	92 x 78 x 38 mm
Weight	485 g	395 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 pixel)	—	—	—
Display language	English	—	—	—
Talking method	Hands-free	—	—	—
Wireless transmission method	Wi-Fi: (IEEE 802.11 b/g/n 2.4 GHz)	—	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	—	—
Viewing angle	—	Horizontally: Approx. 170° Vertically: Approx. 130°	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied) * Optional flush mounting box is sold separately.	Wall mount or attach to DIN rail	Wall mount or attach to DIN rail
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	—	—
External material	Flame retardant ABS and PS resin	Aluminium and flame retardant PC+PS resin	Flame retardant PC+ABS resin	Flame retardant ABS resin

VL-SW251

Model Composition



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 VL-W605BX: PQLV219BX (100-240 V AC, 50/60 Hz) VL-W605CX: PQLV219E (220-240 V AC, 50/60Hz)
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	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 pixel)	—	1.8-inch colour display	—
Display language	English	—	—	—
Frequency range	2.402 GHz – 2.481 GHz	—	2.402 GHz – 2.481 GHz	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	—	—
Viewing angle	—	Horizontally: Approx. 87°    Vertically: Approx. 66°	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting Base supplied)	—	—
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	—	—
External material	Flame retardant ABS resin	Flame retardant ABS resin	ABS resin	ABS resin

\*1 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
	Optional Repeater for Wireless Monitor	Optional Lobby Station	Optional Door Station (Doorphone)
Dimensions (Unit: mm)	<div>Up to 2</div>		
Power source	AC adaptor (100 – 240 V AC, 50/60 Hz)	100 V – 240 V AC, 50/60 Hz	Supplied by the Main Monitor Station
Power consumption [approx.]	VL-FAN1 Standby: 0.05 A During operation: 0.08 A VL-FAN2 Standby: 0.07 A During operation: 0.15 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
Weight	85 g	2.0 kg	200 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 %
Frequency	2.402 GHz – 2.481 GHz	—	—
Image sensor / camera (pixel)	—	CMOS sensor [Approx. 0.3 M pixels]	CMOS sensor [Approx. 0.3 M pixels]
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66°	Horizontally: Approx. 87° Vertically: Approx. 66°
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	1 lx (within approx. 50 cm from the camera lens)
Lighting method	—	Infrared LEDs	Infrared LEDs
Installation method	—	Flush mount (flush mounted box supplied)	Surface mount (mounting base supplied)
External material	Flame retardant PS resin	Stainless steel and flame retardant ABS resin	Flame retardant ABS resin

VL-SF70

■ Model Composition



Model number and name	VL-MF70	VL-VF580
	Monitor	Door Station (Doorphone)
Dimensions (Unit: mm)	<div>Up to 3</div>	<div>Up to 2</div>
Power source	AC adaptor (PNLV245), 24 V DC, 0.5A	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 inches wide colour display	—
Display language	English	—
Talking method	Hands-free	Hands-free
Image sensor / camera (pixel)	—	CMOS sensor [Approx. 0.3 M pixels]
Viewing angle	—	Horizontally: Approx. 51° Vertically: Approx. 38°
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)
Minimum illuminance required	—	1 lx (within approx. 50cm from the camera lens)
Lighting method	—	White coloured LED lights
IP rating / IK rating	—	IP44*1
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	VL-MF70 Monitor
Dimensions (Unit: mm)	<div>*125 / 119</div> <div>*41 / 15.5</div> <div>*268 / 262</div> <div>*Surface mount / Flush mount</div>	<div>Up to 4</div>	<div>87</div> <div>45</div> <div>87</div> <div>*Included with the optional VL-VF580</div>	<div>Up to 12</div>
Power source	Supplied by the monitor		AC adaptor (PNLV245), 24 V DC, 0.5A	AC adaptor (PNLV245), 24 V DC, 0.5A
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 inches wide colour display
Display language	—		—	English
Talking method	Hands-free		—	Hands-free
Viewing angle	Horizontally: Approx. 51° Vertically: Approx. 38°		—	—
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)
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		IP44*1	—
External material	Aluminium / Flame retardant ABS resin	Flame retardant ABS resin	Flame retardant ABS resin	Flame retardant ABS resin

VL-V900 series

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 language	English	—
Talking method	Hands-free	—
Viewing angle	Horizontally: Approx. 170° Vertically: Approx. 115°	—
Installation method	Flush mount (flush mounting box supplied)	Wall mount or attach to DIN rail
Image sensor	1.0 M pixels CMOS	—
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	—
Lighting method	White coloured LED lights	—
IP rating/IK rating	IP55*1 / Compliant with IK07*1	—
External material	Stainless steel (partially ABS and PC)	Flame retardant PC+ABS resin
Expanded interface	Support for electric lock releasing (entrance unlocking) x 1 VIDEO-IN (recommended Panasonic security camera) x 1	—
Supported functions	<ul style="list-style-type: none"><li>Guidance (simple usage for visitors)</li><li>Night colour vision (white coloured LED lights)</li><li>Heat sensor: The backlight of the display and buttons are turned on when a visitor is detected</li><li>Display the resident's names</li><li>Unlock with PIN-code</li></ul>	—

Model number and name	VL-V700	VL-V701	VL-V702
	Control Box	Distribution Box (Distribution mode / Repeater mode)	Lift Controller
Dimensions (Unit: mm)			
Power source	Power supply unit (VL-PS240), 24 V DC, 0.2 A	Power supply unit (VL-PS240), 24 V DC, 0.1 A	Power supply unit (VL-PS240), 24 V DC, 0.2 A
Power consumption	Standby: Approx.3.5 W, During operation: Approx.3.7 W	(Distribution mode) Standby: Approx. 1.2 W, During operation: Approx.2.0 W (Repeater mode) Standby: Approx.1.6 W, During operation: Approx.1.8 W	Standby: Approx. 0.4 W, During operation: Approx. 4.4 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) <ul style="list-style-type: none"><li>date and time setting (HH:MM DD/MM/YYYY)</li><li>set the room number to the monitor</li><li>estimate the status of the equipment in the system</li><li>operation setting (terminal, pass code, and so on.)</li></ul> SD card (SD/SDHC/SDXC): Log function VIDEO OUTPUT (NTSC up to 1) RJ-11: PBX terminal function (connect with PBX system to guard stations)	Dip switch <ul style="list-style-type: none"><li>Mode change (Distribution mode/Repeater mode)</li><li>Termination setting (Normal/Terminal)</li><li>ID setting (1-7 by binary number)</li></ul>	—

Compatibility of Main Monitor and Door Station

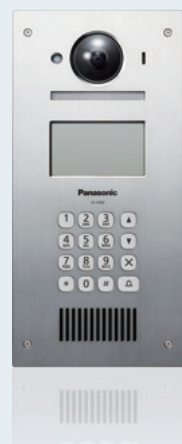
Main Monitor [Set No.]	Door Station					1-by-4 Entrance System	Lobby Station	
	VL-V554	VL-V555	VL-V522L	VL-V566	VL-VF580	VL-VF540	VL-V590	VL-V900
VL-MWD501 [VL-SWD501]	● [Set]	○	○	○	—	—	○	—
VL-MVN511 [VL-SVN511]	○	● [Set]	○	○	—	—	○	○
VL-MW251 [VL-SW251]	—	—	● [Set]	○	—	—	○	○
VL-MF70 [VL-SF70]	—	—	—	—	● [Set]	○	—	—

\*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.

Panasonic

VL-V900

## Video Intercom System for Apartment Complexes



Lobby Station

### VL-V900

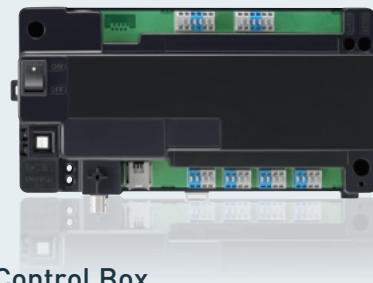
Doorphone for the public entrance of housing complexes. Destination display, calling, conversation, electric lock

#### 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

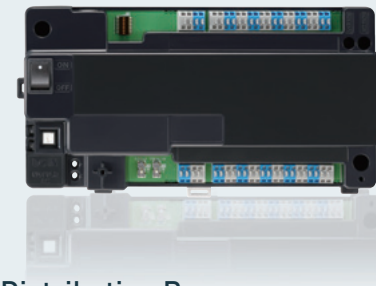
Device for controlling the entire system

#### 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.

### Main Monitor Line Up

	VL-MVN511	VL-MW251	VL-MV26 <small>*Released in 2016</small>
			
Power source	Power supply unit (VL-PS240) 220-240 V AC 24 V DC, 0.5 A	100-240 V AC (50/60 Hz)	Power supply unit (VL-PS240) 220-240 V AC
Power consumption	Standby: Approx. 1.8 W During operation: Approx. 10 W	Standby: Approx. 1.8 W During operation: Approx. 12 W	Standby: T.B.D. During operation: T.B.D.
Dimensions (H x W x D) (Excluding protruding sections)	186 x 161 x 23.5 mm	190 x 165 x 38 mm	169 x 129 x 29 mm
Weight	485 g	785 g	345 g
Operating environment	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 %	T.B.D.
Display	5-inch, wide colour / WQVGA (480x272 pixel)	5-inch, wide colour / WQVGA (480x272 pixel)	3.5-inch, colour / QVGA (320x240pixel)
Display language	English	English	English
Frequency range	Wi-Fi: IEEE 802.11 b/g/n 2.4 GHz	2.402 GHz - 2.481 GHz	-
Installation method	Wall mount (mounting bracket supplied)	Wall mount (mounting bracket supplied)	Wall mount (mounting bracket supplied)
External material	Flame retardant ABS and PS resin	Flame retardant ABS resin	T.B.D.
Supported functions			
Door station	1 door station input (VL-V555, VL-V554/V554U, VL-V522L)	1 door station input (VL-V522L, VL-V566)	-
Door bell	1 door bell input	-	1 door bell input
Electric lock release support	Up to 2 (for individual x 1 <sup>1</sup> , 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, 8 shots per visitor)	Up to 400 images (up to 50 visitors, 8 shots per visitor)	Up to 30 images (up to 30 visitors, 1 shot per visitor)
Voice changer	Yes	Yes	-
PTZ	Pan, Tilt, Zoom (for VL-V900, VL-V555, VL-V554/V554U)	Pan, Tilt, Zoom (for VL-V900)	-
Wireless monitor	-	Up to 4 (VL-W605)	-
Repeater	-	Up to 2 (VL-FAN1, VL-FAN2 (for India))	-
Smartphone connect	Up to 4	-	-
E-mail notification	Up to 4* <sup>2</sup>	-	-
Intercom call	-	Yes* <sup>3</sup> (between main monitor and sub monitors)	-
Other functions	• Guard call • Monitor security camera • Emergency call	• Guard call • Monitor security camera	• Guard call • Monitor security camera

\*1 VL-RLY1 is required.

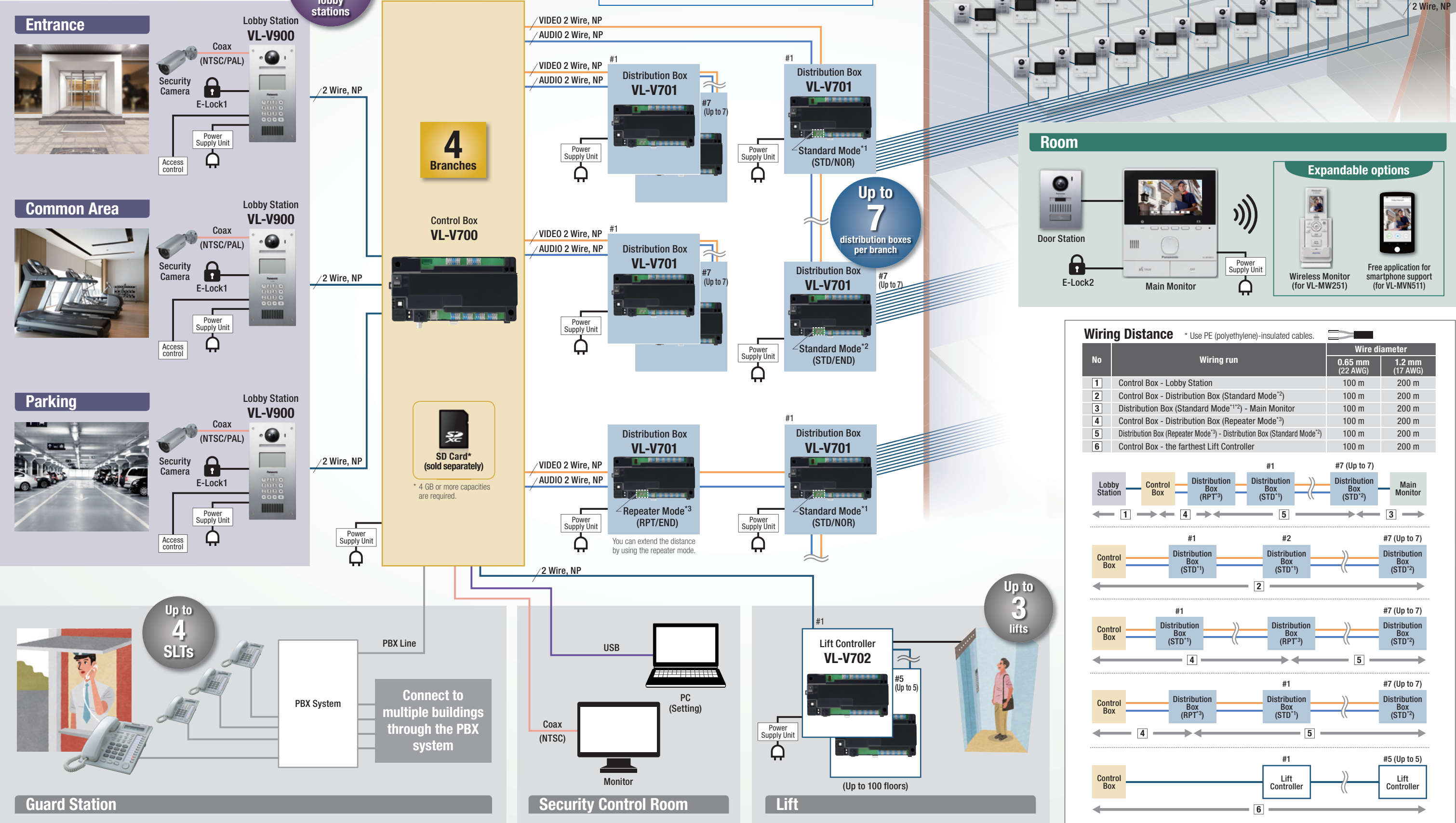
\*2 The main monitor must be connected to a Wi-Fi router that is connected to the Internet in order to use email feature.

\*3 Multiple wireless monitors are required.



# System Diagram of the Apartment System

- Total System**
- Control Box** 1 unit
  - Distribution Box** 28 units
  - Main Monitor** 560 units



**Wiring Distance** \* Use PE (polyethylene)-insulated cables.

No	Wiring run	Wire diameter	
		0.65 mm (22 AWG)	1.2 mm (17 AWG)
1	Control Box - Lobby Station	100 m	200 m
2	Control Box - Distribution Box (Standard Mode <sup>2</sup> )	100 m	200 m
3	Distribution Box (Standard Mode <sup>1,2</sup> ) - Main Monitor	100 m	200 m
4	Control Box - Distribution Box (Repeater Mode <sup>3</sup> )	100 m	200 m
5	Distribution Box (Repeater Mode <sup>3</sup> ) - Distribution Box (Standard Mode <sup>2</sup> )	100 m	200 m
6	Control Box - the farthest Lift Controller	100 m	200 m

