System Configuration Example

Wireless Video Intercom System
VL-SW274

Bedroom Room 1 Room 2
Living Room Den Kitchen PBX
< 2 Wire >
Electric lock Electric lock

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

Wireless Video Intercom System
VL-SW251

Bedroom Room 1 Room 2
Living Room Kitchen Den PBX
< 2 Wire >
Electric lock Electric lock

Video Intercom System
VL-SVN511

Bedroom Room 1 Room 2
Living Room Router Kitchen Den PBX
< 2 Wire >
VL-PS241
Electric lock VL-RLY1 Electric lock

Video Intercom System
VL-SV71

Bedroom Room 1 Room 2
Living Room Den PBX
< 2 Wire >
Kitchen
Electric lock Electric lock

Video Intercom System
VL-SV30

Bedroom Room 1 Room 2
Living Room Kitchen Den PBX
< 2 Wire >
Electric lock Electric lock

---

System Units — VL-SW274

|	
Main/Extension Monitor VL-MW274 — Up to 3* [not including the main monitor]	**Wireless Monitor Station** VL-W617 — Up to 6*
Door Station VL-V522L — Up to 2	**Repeater for Wireless Monitor** VL-FAN2 — Up to 2
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.
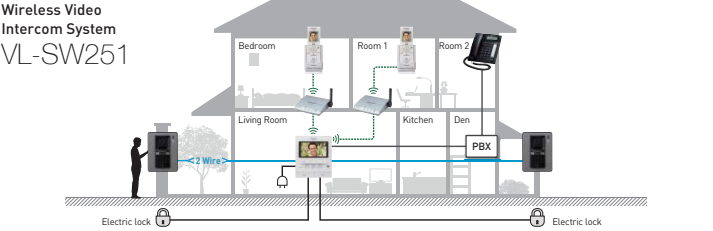
System Units — VL-SW251

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-FAN2 — Up to 2
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.
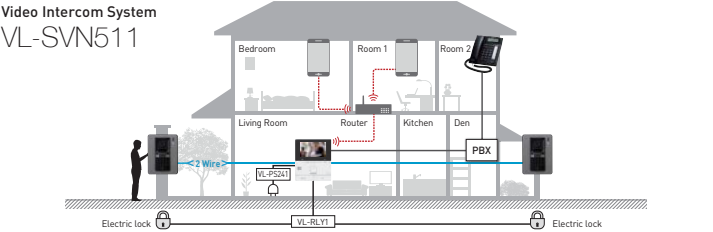
System Units — VL-SVN511

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.

System Units — VL-SV71
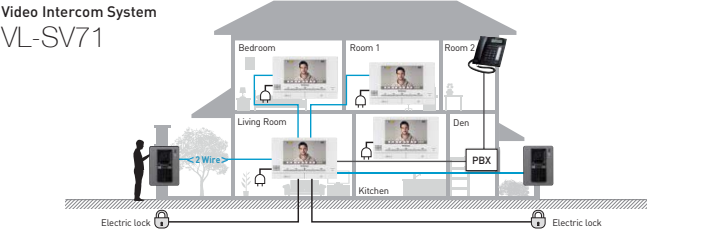
Main/Extension Monitor VL-MV71 — Up to 3 [not including the main monitor]	**Door Station** VL-V522L — Up to 2
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.

System Units — VL-SV30
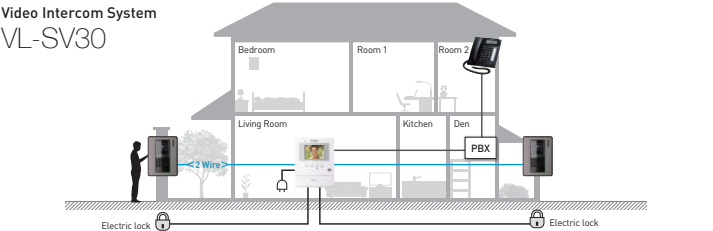
Main Monitor Station VL-MV30	**Door Station** VL-V566 — Up to 2
Panasonic PBX	Please consult your dealer when connecting with a PBX. This image shows the KX-NS500.

Trademarks and registered trademarks
- MIFARE is a registered trademark of NXP B.V. and is used under license.
- 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.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

• 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

Panasonic

VIDEO INTERCOM SYSTEM
LINE-UP CATALOGUE

Flexible and convenient solutions that work for you.

Why Panasonic?

We are making every effort to research and develop state-of-the-art technology, production process technology, and quality innovation. We will provide new products that will contribute to value improvement for customers by proposing solutions. Innovative products are created together with the customer.

Diverse Product Line-up

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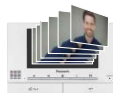
Analogue

Single House

IP

IP Camera

IP Video Intercom

SIP Phone

NVR

Stylish Design and Rich Features

- **Wireless**
- **Wide angle & PTZ**
- **Picture recording**
- **Voice changer**

  No, thank you!

  No, thank you!
- **User-friendly & multilingual UI**
- **PBX compatible**
- **Easy installation (non polar, 2-wire)**
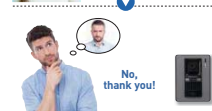
History

Proud to be the No. 1 market share holder in Japan

Market Share (Japan)

74%

Source: Panasonic's estimate based on internal research in 2016

1,260,000 Units

22,000 Units

Function/Spec

Panasonic became a market leader in Japan with its Video Intercom with Wireless Monitor

Remote Answering

Smartphone Connect

Touch Screen Monitor

Video Intercom with IP

Video Intercom with Wireless Monitor

Colour Video Intercom

Black & White Video Intercom

Voice Interphone

Bell, Chime

Safety/Convenience

1940 1960 1980 1990 2008 2010 2012 2015 2016

Development
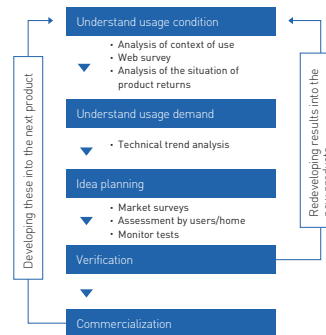
Customer

Sales & Customer Satisfaction

Production

We grasp customer needs, plan products, and then proceed to develop them.
Safe, reliable products are manufactured under strict quality control. In addition, customer service and products that truly fit customer needs, earning us high acclaim in world markets.

Dedicated to the Customer Centric Policy

Everything we do is for our customers

We precisely grasp customer needs by asking for opinions, and then we create ideas in response. Our passion for developing truly great products helps to bring shape to these ideas.

Developing these into the next product

Understand usage condition
- Analysis of context of use
- Web survey
- Analysis of the situation of product returns

Understand usage demand
- Technical trend analysis

Idea planning
- Market surveys
- Assessment by users/home
- Monitor tests

Verification

Commercialization

Redeveloping results into the new products

Customer opinions are sought both before and after our products are launched, in an effort to offer the best possible products. Monitor testing is also conducted at the prototype stage. If assessments do not meet expectations, further improvements are made.
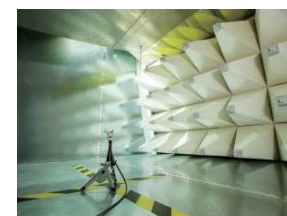
High Quality Products

Low failure rates
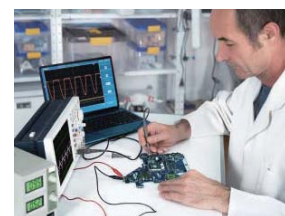
Numerous safety test items

High-reliability tests

Photos are for illustrative purposes only.

Product Lineup

Expandable 2.4 GHz Wireless Series
VL-SW274

1 x Main Monitor: VL-MW274
1 x Door Station: VL-V522L
1 x Wireless Sub Monitor: VL-W617

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

Expandable Series
VL-SV71

1 x Main Monitor: VL-MV71
1 x Door Station: VL-V522L

Entriy Series
VL-SV30

1 x Main Monitor: VL-MV30
1 x Door Station: VL-V566

Comparison Chart

Model Number		VL-SW274	VL-SW251	VL-SVN511	VL-SV71	VL-SV30
Maximum Connectable Units	Door Station (Doorphone)	2	2	2	2	2
	Main Monitor / Extension Monitor	1 / 3	1 / —	1 / —	1 / 3	1 / —
	Wireless Sub Monitor	6 (2.4 GHz)	4 (2.4 GHz)	—	—	—
	Smartphone, Tablet	—	—	● (4)*1	—	—
Recording	Video / Picture Recording	— / ●	— / ●	— / ●	— / ●	— / ●
Connectable Devices	Electric Lock Release (Door Opener)	● (2)*2	● (2)*2	● (2)*2	● (2)*2	● (2)*2
	Panasonic PBX	●	●	●	●	●
	Repeater	● (2)	● (2)	—	—	—
Others	Night Vision (LED Light)	●	●	●	●	● (Infrared LEDs)
	Touch Panel / Pan & Tilt	— / ●	— / —	— / ●	— / ●	— / —
	Viewing Angle	H: 87° V: 66°	H: 87° V: 66°	H: 87° V: 66°	H: 87° V: 66°	H: 87° V: 66°
	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.

Compatibility of Main Monitor, Wireless Monitor and Door Station

Please contact your nearest Panasonic dealer for sales information.

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

Main Monitor (Package No.)		Power source	Display size	Extension Monitor	Wireless Sub Monitor (2.4 GHz) VL-W617 1.8-inch	Wireless Sub Monitor (2.4 GHz) VL-W605 1.8-inch	VL-FAN2 Repeater	Door Station VL-554/VL-V554U 1.0 M pixels	Door Station VL-V555 0.3 M pixels	Door Station [*1] VL-V522L 0.3 M pixels	Door Station [*1, *2] VL-V566 0.3 M pixels	Door Station IP VN1500 1.3 M pixels	Lobby Station [*1, *2, *3] VL-V591 0.3 M pixels	Lobby Station Analogue VL-V900 1.0 M pixels	Lobby Station IP VL-VN1900 2.0 M pixels
VL-MW274 (VL-SW274)		AC	7-inch WVGA colour	O up to 3 (*4) VL-MW274	● up to 6 (*4)	×	O up to 2	O	O	●	×	×	O	O	×
VL-MW251 (VL-SW251)		AC	5-inch WQVGA colour	×	×	● up to 4	O up to 2	×	×	●	O	×	O	O	×
VL-MVN511 (VL-SVN511)		VL-PS240	5-inch WQVGA colour	×	smartphone connect model			O	O	●	O	×	O	O	×
VL-MV71 (VL-SV71)		AC	7-inch WVGA colour	O up to 3 VL-MV71	×			O	O	●	×	×	O	O	×
VL-MV30 (VL-SV30)		AC	3.5-inch colour	×	×	×	×	×	×	●	×	O	×	×	×
VL-MV26		VL-PS240	3.5-inch QVGA colour	×	×	×	×	×	×	×	×	×	×	O	×
VL-MN1000	PoE or VL-PS240(*5)	PoE or VL-PS240(*5)	7-inch WVGA colour /Touch Screen	O up to 5 VL-MN1000	×			×	×	×	×	O	×	×	O

* 1 Wide/zoom settings and zoom position settings are not available.
* 2 Doorphone LED light illumination settings and backlight compensation settings are not available.
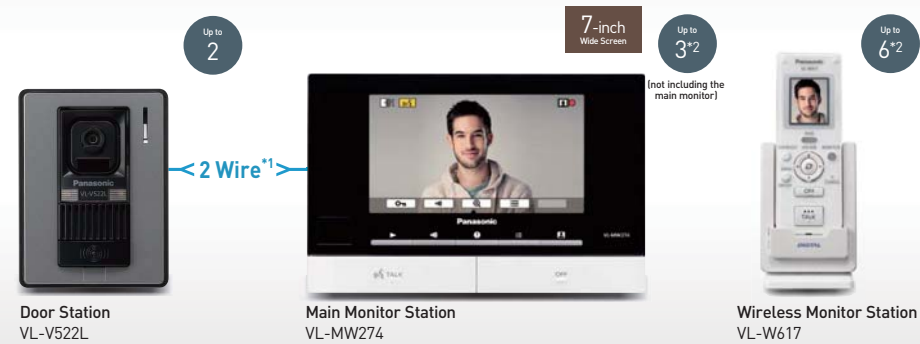* 3 Outside monitoring using the doorphone is not available.
* 4 A total of up to 6 sub monitors and extension monitors can be registered to the main monitor.
* 5 Power Supply Unit (VL-PS240) is sold separately.

Expandable 2.4 GHz Wireless Series

Wireless Video Intercom System

VL-SW274

7-inch Wide Screen

Up to **2**

Up to **3***2
(not including the main monitor)

Up to **6***2

< **2 Wire** *1 >

Door Station
VL-V522L

Main Monitor Station
VL-MW274

Wireless Monitor Station
VL-W617

*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 1.8-inch wireless monitors (However, the maximum possible number of 7-inch wired monitors is 3). In addition, PBX connectivity is also supported.
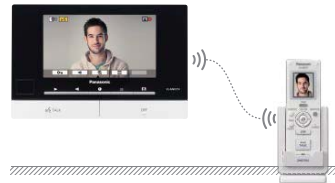
Total Up to **6**

Up to **6**

Up to **3**

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
(2.4 GHz)

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

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

Door Station (Doorphone) VL-V522L (Surface mount)	Door Station (Doorphone) VL-V554 (CMOS 1.0 M pixels) VL-V555 (CMOS 0.3 M pixels)	Extension Monitor VL-MW274	Wireless Monitor Station (Sub Monitor) VL-W617	Repeater for Wireless Monitor VL-FAN2	Lobby Station VL-V591	PBX Connectable PBX Model Numbers
Up to 2	Up to 2	Up to 3	Up to 6	Up to 2	Up to 20 main monitors can be connected.	KX-TDA30/100/100D/200/600 series KX-TDE100/200/600 series KX-NS300/500/700/1000 series

This image shows the KX-NS500.

Please consult your dealer when connecting with a PBX.

2.4 GHz Wireless Series

Wireless Video Intercom System

VL-SW251

5-inch Wide Screen

Up to **2**

Up to **4**

< **2 Wire** * >

Door Station
VL-V522L

Main Monitor Station
VL-MW251

Wireless Monitor Station
VL-W605

* 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.

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.

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.

Equipped with LED light

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)

Options

Door Station (Doorphone) VL-V522L	Wireless Monitor Station (Sub Monitor) VL-W605	Repeater for Wireless Monitor VL-FAN2	Lobby Station VL-V591	PBX	Connectable PBX Model Numbers
Up to 2	Up to 4	Up to 2	Up to 20 main monitors can be connected.	This image shows the KX-NS500.	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.

Smartphone Connect Series

Video Intercom System

VL-SVN511

5-inch Wide Screen

Up to 2

< **2 Wire*** >

Door Station
VL-V522L

Main Monitor Station
VL-MVN511
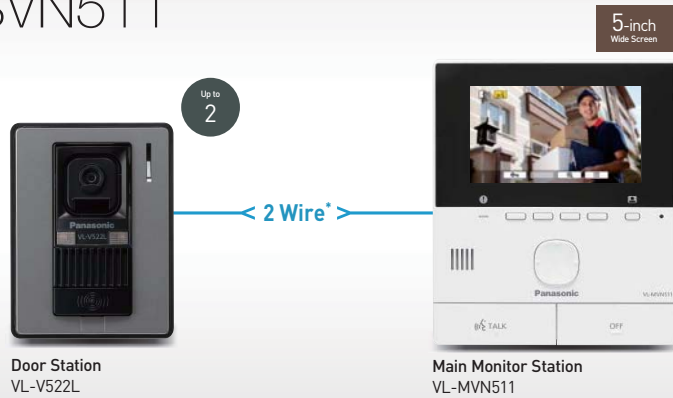
* Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.

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.
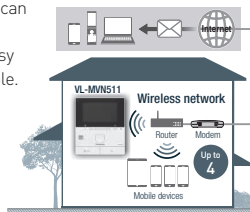
Answer Visitors and Unlock the Electric Locks

Monitoring

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.

VL-MVN511
Wireless network
Router   Modem
Up to 4
Mobile devices

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/

Options

Door Station (Doorphone) VL-V555 (Surface mount) CMOS 0.3 M pixels	Door Station (Doorphone) VL-V554 (Surface mount) CMOS 1.0 M pixels	Door Station (Doorphone) VL-V522L (Surface mount)	Lobby Station VL-V591	PBX	Connectable PBX Model Numbers
Up to 2	Up to 2	Up to 2	Up to 20 main monitors can be connected.	This image shows the KX-NS500.	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.

*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.

Expandable Series

Video Intercom System

VL-SV71

7-inch Wide Screen

Up to 2

Up to 3 (not including the main monitor)

< **2 Wire*** >

Door Station
VL-V522L

Main Monitor Station
VL-MV71

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

Highly Expandable

Up to 3 additional 7-inch monitors can be connected to the main monitor. In addition, PBX connectivity is also supported.

Up to 3

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.

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
- Night Vision (white coloured LED lights)
- Voice Changer
- Intercom Call (between the main monitor and extension monitor)

Options

Door Station (Doorphone) VL-V522L (Surface mount)	Door Station (Doorphone) VL-V554 (Surface mount) VL-V555 (CMOS 0.3 M pixels)	Extension Monitor VL-MV71	Lobby Station VL-V591	PBX Connectable PBX Model Numbers
Up to 2	Up to 2	Up to 3	Up to 20 main monitors can be connected.	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. This image shows the KX-NS500.

Entry Series

Video Intercom System
VL-SV30

3.5-inch Wide Screen

Up to **2**

< **2 Wire*** >

Door Station
VL-V566

Main Monitor Station
VL-MV30

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

3.5-inch colour TFT LCD

This monitor features a 3.5-inch wide LCD. As the monitor, it lets you clearly identify visitors.

Night Vision (IR-LEDs)

You can check visitors even when it's dark outside.

* The actual colour displayed on the monitor may change depending on how dark it is outside.

Picture Recording

Up to 30 visitor images are automatically recorded and saved. You can check them when you return home.

Other Features

• Electric Lock Release Support (Door Opener)

Options

Door Station (Doorphone)
VL-V566
Up to **2**

Lobby Station
VL-V591

Up to 20 main monitors can be connected.

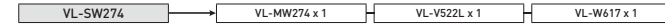**PBX**

This image shows the KX-NS500.

Connectable PBX Model Numbers
KX-TDA30/100/100D/200/600 series
KX-TDE100/200/600 series
KX-NS300/500/700/1000 series
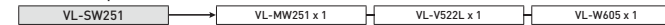
Please consult your dealer when connecting with a PBX.

■ Model Composition

| VL-SW274 | → | VL-MW274 x 1 | VL-V522L x 1 | VL-W617 x 1 |

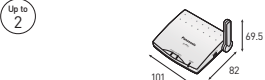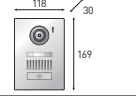| Model number and name	VL-MW274	VL-V522L	VL-W617	
	Main Monitor Station (Main monitor) Extension Monitor	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main body	Charger
Dimensions (Unit: mm)	Up to 3*1 (not including the main monitor) 243 / 29.5 / 158	Up to 2 / 99 / 36.5 / 131	Up to 6*1 / 52 / 35 / 157	76 / 90 / 115
Power source	220–240 V AC, 50/60 Hz	Supplied by the main monitor	Ni-MH battery (3.6 V DC / 650 mAh)	AC adaptor (100–240 V AC, 50/60 Hz) Output: 6.5 V DC, 0.5 A
Power consumption	Standby: Approx. 1.9 W During operation: Approx. 10 W	—	—	Standby: Approx. 0.07 W (when the sub monitor is not placed in the charger) During charging: Approx. 1.8 W
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 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	825 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	7-inch wide colour / WVGA (800x480 pixels)	—	1.8-inch colour display	—
Display language	English, Arabic	—	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	—
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

■ Model Composition

| VL-SW251 | → | VL-MW251 x 1 | VL-V522L x 1 | VL-W605 x 1 |

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)	165 / 38 / 190	Up to 2 / 99 / 36.5 / 131	Up to 4 / 52 / 35 / 157	76 / 90 / 115
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. 1.8 W During operation: Approx. 12 W	—	—	—
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 cord. The weight of the AC cord differs depending on the region.
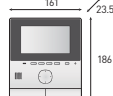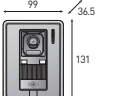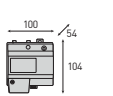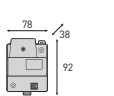*3 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.

Options

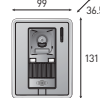| Model number and name	VL-FAN2	VL-V555
	Optional Repeater for Wireless Monitor	Optional Door Station (Doorphone)
Dimensions (Unit: mm)	Up to 2 69.5 / 101 / 82	118 / 30 / 169
Power source	AC adaptor (100-240 V AC, 50/60Hz) Output: 6.5 V DC, 0.5 A	Supplied by the main monitor
Current consumption	Standby: Approx. 0.05 A During operation: Approx. 0.08 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)	169 x 118 x 30 mm
Weight	85 g	395 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 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. 170° Vertically: Approx. 130°
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)
Installation method	—	Surface mount (mounting base supplied) or Flush mount (flush mounting box sold separately)
External material	PS resin	Aluminium and flame retardant PC+PS resin

VL-SVN511

■ Model Composition

VL-SVN511 → VL-MVN511 x 1 → VL-V522L x 1

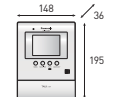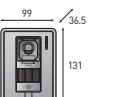| Model number and name	VL-MVN511	VL-V522L	VL-PS241	VL-RLY1
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Power Supply Unit	Relay Box
Dimensions (Unit: mm)	161 / 23.5 / 186	Up to 2 99 / 36.5 / 131	100 / 54 / 104	78 / 38 / 92
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A	Supplied 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

VL-SV71

■ Model Composition

VL-SV71 → VL-MV71 x 1 → VL-V522L x 1

Model number and name	VL-MV71	VL-V522L
	Main Monitor Station (Main monitor) Extension Monitor	Door Station (Doorphone)
Dimensions (Unit: mm)	Up to 3 (not including the main monitor) 243 / 29.5 / 158	Up to 2 99 / 36.5 / 131
Power source	220-240 V AC, 50/60 Hz	Supplied by the main monitor
Power consumption	Standby: Approx. 2.0 W During operation: Approx. 10.5 W	—
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	131 x 99 x 36.5 mm
Weight	825 g[*2]	200 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)
Display	7-inch wide colour / WVGA (800x480 pixels)	—
Display language	English, Arabic	—
Talking method	Hands-free	Hands-free
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)
External material	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 Installation Guide, and appropriate water protection measures are taken.
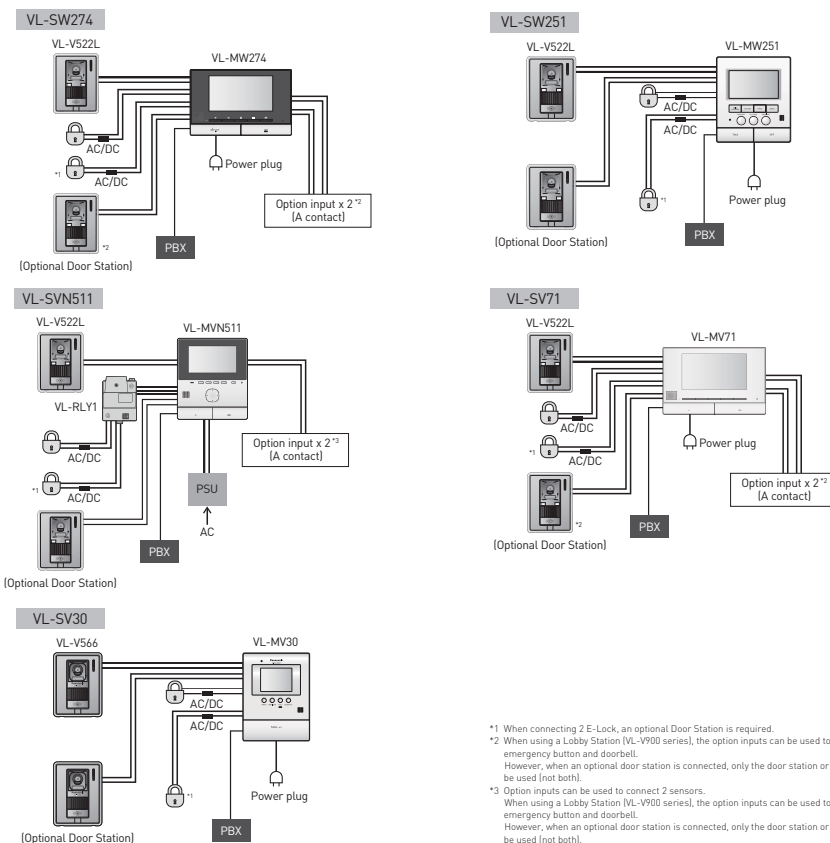*2 Including AC cord. The weight of the AC cord differs depending on the region.

VL-SV30

■ Model Composition

VL-SV30 → VL-MV30 x 1 → VL-V566 x 1

Model number and name	VL-MV30	VL-V566	VL-V591	VL-PS241
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Optional Lobby Station	Power Supply Unit
Dimensions (Unit: mm)	148 / 36 / 195	Up to 2 99 / 36.5 / 131	180 / 17.3 / 358	100 / 54 / 104
Power source	100 – 240 V AC, 50/60 Hz	Supplied by the Main Monitor Station	Power supply unit (VL-PS241)	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A
Current consumption	Standby: Approx. 0.04 A During operation: Approx. 0.22 A	—	Standby: Approx. 0.02 A During operation: Approx. 0.03 A	—
Dimensions (H x W x D) (Excluding protruding sections)	195 x 148 x 36 mm	131 x 99 x 36.5 mm	358 x 180 x 17.3 mm (Excluding sections embedded into the wall)	104 x 100 x 54 mm
Weight	550 g	200 g	2.0 kg	215 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. 0 °C to +50 °C, Relative humidity (non-condensing): up to 90 % (indoor use only)
Display	3.5-inch colour display	—	—	—
Talking method	Hands-free	Hands-free	—	—
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66	Horizontally: Approx. 87° Vertically: Approx. 66°	—
Image sensor/camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	CMOS sensor (Approx. 0.3 M pixels)	—
Minimum illuminance required	—	1 lx (within approx. 50cm from the camera lens)	—	—
Lighting method	—	Infrared LEDs	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)	Flush mount (flush mounting box supplied)	Wall mount or attach to DIN rail
External material	Flame retardant ABS resin	Flame retardant ABS resin	Stainless steel and flame retardant ABS resin	Flame retardant PC+ABS resin

Comparison of the wiring

VL-SW274

VL-V522L
VL-MW274
AC/DC
AC/DC
*1
Power plug
Option input x 2[*2] (A contact)
*2
PBX
(Optional Door Station)

VL-SW251

VL-V522L
VL-MW251
AC/DC
AC/DC
*1
Power plug
(Optional Door Station)
PBX

VL-SVN511

VL-V522L
VL-MVN511
VL-RLY1
AC/DC
*1
AC/DC
Option input x 2[*3] (A contact)
PSU
AC
PBX
(Optional Door Station)

VL-SV71

VL-V522L
VL-MV71
AC/DC
*1
AC/DC
Power plug
Option input x 2[*2] (A contact)
*2
PBX
(Optional Door Station)

VL-SV30

VL-V566
VL-MV30
AC/DC
AC/DC
*1
Power plug
(Optional Door Station)
PBX

*1 When connecting 2 E-Lock, an optional Door Station is required.
*2 When using a Lobby Station (VL-V900 series), the option inputs can be used to connect an emergency button and doorbell.
However, when an optional door station is connected, only the door station or doorbell can be used (not both).
*3 Option inputs can be used to connect 2 sensors.
When using a Lobby Station (VL-V900 series), the option inputs can be used to connect an emergency button and doorbell.
However, when an optional door station is connected, only the door station or doorbell can be used (not both).

IP Video Intercom System
for Apartment Complexes

One Panasonic Solution

Greater peace of mind with interconnected Panasonic IP products

IP Video Intercom

IP Camera

SIP Phone

NVR

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)

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/.

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.

Room Monitor
VL-MN1000

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

Door Station
VL-VN1500

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

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

- 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

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

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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

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

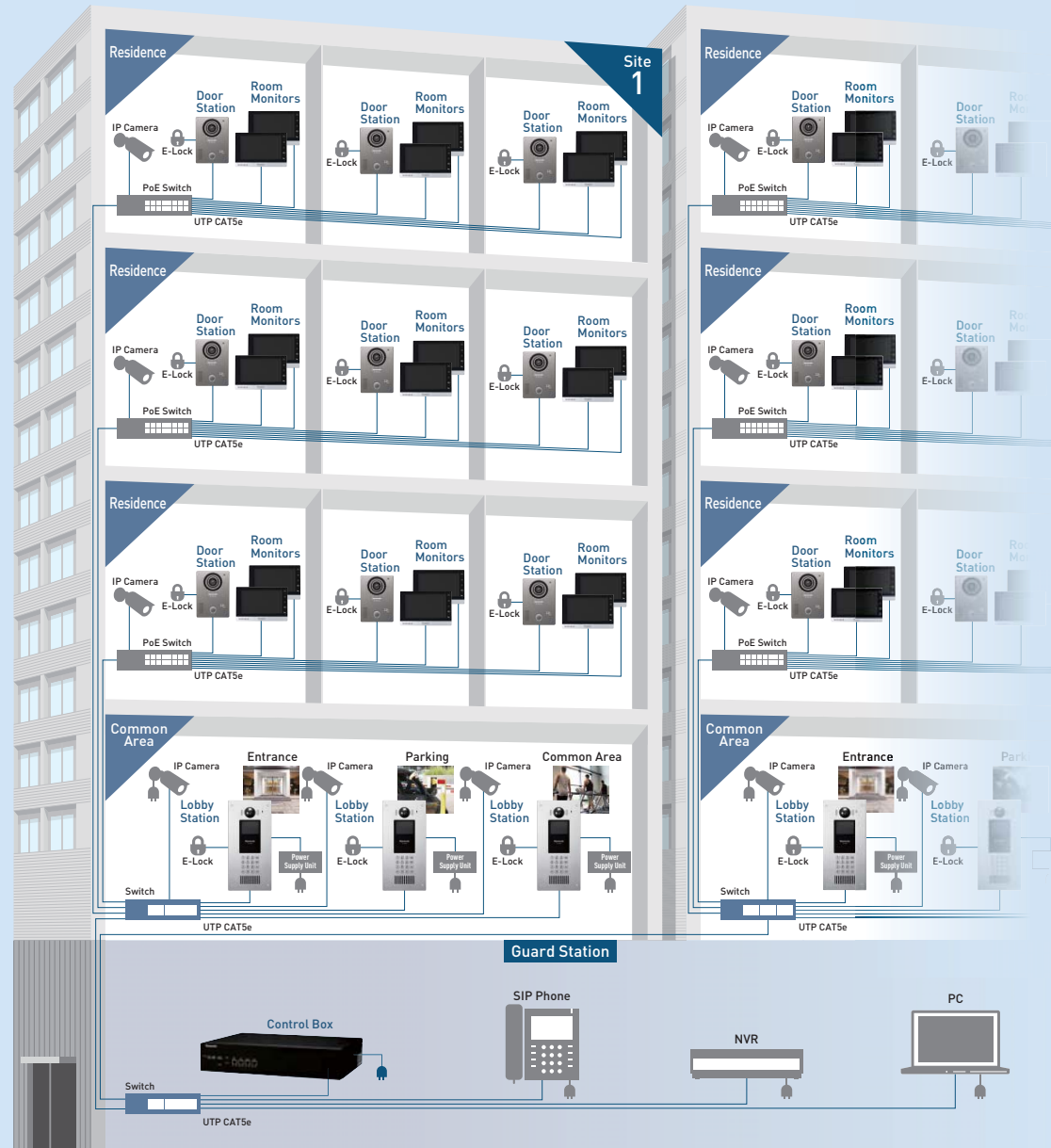## Support up to 200 devices on a system without a Control Box

FUNCTION
- 200 SIP devices are supported
- Multiple sessions are supported
- Send text mail from control room to all monitors
- Easy setup by PC tool
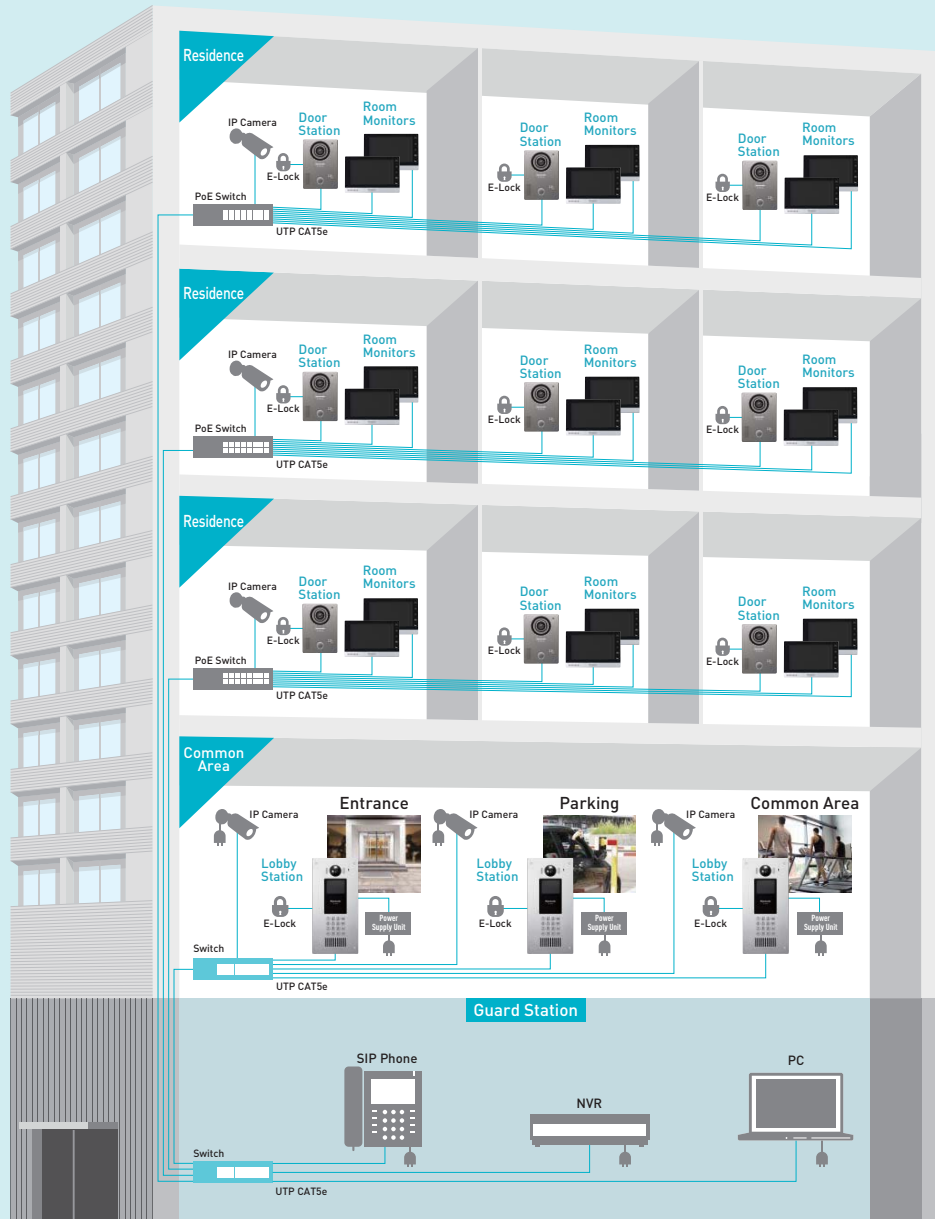
Support up to 2,000 devices on a system with a Control Box

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

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

Analogue
Video Intercom System
for Apartment Complexes

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 #10.

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 and control boxes.

Features

Extend lobby stations / control boxes
- Up to 6 lobby stations
- Up to 4 control boxes

Lobby Station
VL-V900

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

Control Box
VL-V700

Device for controlling the entire system

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 / Amber 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
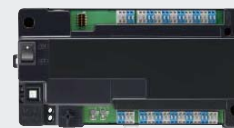
- Security camera
- Electric lock
- Access controller

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)

Main Monitor Line Up

		VL-MW274/VL-MV71	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:	VL-MW274: Approx. 1.9 W / VL-MV71: Approx. 2.0 W	Approx. 1.8 W	Approx. 1.8 W	Approx. 1.2 W
	During operation:	VL-MW274: Approx. 10.0 W / VL-MV71: Approx. 10.5 W	Approx. 12.0 W	Approx. 10.0 W	Approx. 8.0 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 / WVGA (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		2.402 GHz to 2.481 GHz (VL-MW274 only)	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		VL-MW274: Flame retardant PC+ABS resin, Flame retardant ABS resin / VL-MV71: 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-V554/V554U, VL-V555, V522L) / 1 door bell input	1 door station input (VL-V522L, VL-V566) / 1 door bell input	1 door station input (VL-V554/V554U, VL-V555, VL-V522L, VL-V566) / 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-V554/V554U, VL-V555)	Pan, Tilt, Zoom (for VL-V900)	Pan, Tilt, Zoom (for VL-V900, VL-V554/V554U, VL-V555)	-
Wireless monitor		Up to 6 (VL-W617)[*2*4]	Up to 4 (VL-W605)	-	-
Extension monitor		Up to 3 (VL-MW274/VL-MV71)[*4]	-	-	-
Repeater		Up to 2 (VL-FAN2)[*3]	Up to 2 (VL-FAN2)	-	-
Smartphone connect		-	-	Up to 4	-
E-mail notification		-	-	Up to 4[*5]	-
Intercom call		Yes (between main monitor, sub monitor[*3], 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[*6] / • Monitor security camera / • Emergency call[*6]

*1 Including AC cord. The weight of the AC cord differs depending on the region.
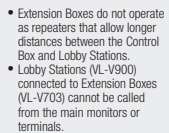*2 VL-RLY1 is required.
*3 The VL-MV71 is not support wireless monitors.
*4 Up to 6 additional monitors (Extension monitor/Wireless sub monitor[*3]) can be connected. (*up to 3 of extension monitors)
*5 The main monitor must be connected to a wireless router that is connected to the Internet in order to use email feature.
*6 Either one can be connected.

Basic System

Each Branch connects up to 10 Distribution Boxes
Each Distribution Box connects up to 20* Room Units (*Room units: up to 560 for each control box)

Up to 560 Room Units in Total

Up to 10 Distribution Boxes per Branch

#10 #1~#10: Standard mode

Distribution Box VL-V701 (#10, #9, #2, #1)

Repeater — Distribution Box VL-V701

Up to 20 Room Units per Distribution Box

2 Wire / 2 Wire x 2

Branch1 Branch2 Branch3 Branch4

Up to 4 Branches

Control Box VL-V700 — PSU

SD Card (sold separately)

Coax (NTSC) Monitor

Lift Controller VL-V702 (Lift: up to 3)

Up to 18 Lobby Stations

Extension Box VL-V703 — PSU

Lobby Station VL-V900 #1 ... #6

Coax (NTSC/PAL) — Security Camera

Access Controller

Reception / Security / Gym / Gate — PBX

Lobby Station: up to 3 (without Extension Box) up to 18 (with Extension Box)

Terminal up to 4 via PBX system

- Extension Boxes do not operate as repeaters that allow longer distances between the Control Box and Lobby Stations.
- Lobby Stations (VL-V900) connected to Extension Boxes (VL-V703) cannot be called from the main monitors or terminals.

Expanded System for Large scale building

Control Box VL-V700 — **Up to 560 Room Units in Total** (×4)

Up to 4 Control Boxes — Extension Box VL-V703

PBX

Reception / Security / Gym / Gate

Lobby Station VL-V900 #1 ... #6

Up to 54* Lobby Stations

Up to 2,240 Room Units

Expanded System for Multi building

Up to 2,240 Room Units

Control Box VL-V700 — **Up to 560 Room Units in Total**

Extension Box VL-V703

#1 ... #6

PBX

Security / Gym / Reception

4 Up to Control Boxes — Extension Box VL-V703

Up to 54* Lobby Stations

Gate #1 ... #6

*There are usage restrictions when connecting more than 19 Lobby Stations. Consult your certied Panasonic dealer for more information.

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

Wiring run	Wire diameter		Wiring run	Wire diameter	
	0.65 mm (22 AWG)	1.2 mm (17 AWG)		0.65 mm (22 AWG)	1.2 mm (17 AWG)
Control Box - (Extension Box) - Lobby Station	100 m	200 m	Control Box - Distribution Box (Repeater Mode)	100 m	200 m
Control Box - The farthest Distribution Box (Standard Mode)	100 m	200 m	Distribution Box (Repeater Mode) - The farthest Distribution Box (Standard Mode)	100 m	200 m
Distribution Box (Standard Mode) - Main Monitor	100 m	200 m	Control Box - The farthest Lift Controller	100 m	200 m

PSU Power Supply Unit (VL-PS240/PS241)
SOS Emergency Button
🔔 Door Bell
🔒 E-Lock

Monitor Lineup

VL-MW274
Main monitor — **Up to 6**
Power source: 220-240 V AC, 50/60 Hz
Optional wireless sub monitor VL-W617 (2.4GHz)

VL-MV71
Main monitor — **Up to 3**
Power source: 220-240 V AC, 50/60 Hz
*VL-MV71: Wireless monitors NOT supported

VL-MW251
Main monitor — **Up to 4**
Power source: 220-240 V AC, 50/60 Hz
Optional wireless sub monitor VL-W605 (2.4GHz)

VL-MVN511
Main monitor — VL-RLY1 — Wireless router — Your Smartphones — **Up to 4**
SOS or Sensor AC
Power source: 24 V DC Power supply unit (supplied)

VL-MV26
Monitor
Power source: 24 V DC Power supply unit (supplied)
*1 Either one can be connected.
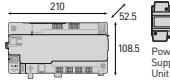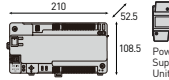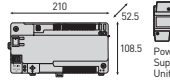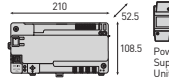
Model number and name	VL-VN1900	
	Lobby Station	Power Supply Unit (VL-PS240)
Dimensions (Unit: mm)	179 / 6 / 373	100 / 54 / 116
Power source	Power supply unit (VL-PS240) 24 V DC, 0.6 A	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A
Power consumption	Standby: 3.5 W, During operation: 8.5 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[1] / 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	• 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)	100 / 28.5 / 141	205 / 27.8 / 137.5	430 / 88 / 340
Power source	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240[2]) 24 V DC, 0.6 A	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240[2]) 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[1] / —	—	—
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	• Unlock individual doors via the RFID card (MIFARE) • Theft detection buzzer	• 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[3] • Register up to 18 SIP Phones per monitor[4]	• 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.   *3 System total up to 500 IP cameras. Consult your dealer for more information.   *4 System total up to 50 SIP phones. Consult your dealer for more information.

Model number and name	VL-V900	
	Lobby Station	Power Supply Unit (VL-PS240)
Dimensions (Unit: mm)	179 / 2.5 / 373	100 / 54 / 116
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 backlit LCD)	—
Display language	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[1] / 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	• 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 / Repeater Box	Lift Controller	Extension Box
Dimensions (Unit: mm)	210 / 52.5 / 108.5 Power Supply Unit	210 / 52.5 / 108.5 Power Supply Unit	210 / 52.5 / 108.5 Power Supply Unit	210 / 52.5 / 108.5 Power Supply Unit
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 supply unit (VL-PS240) 24 V DC, 0.1 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/Termination) • ID setting (1-10)	Supported control methods • 1:1 control (Relay signalling) • Binary control	Extend lobby stations / control boxes • Up to 6 lobby stations • Up to 4 control boxes

*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.