Panasonic

VL-WD613

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Panasonic ®

**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

NVR

IP Video Intercom

SIP Phone

Stylish Design and Rich Features

Wireless

Wide angle & PTZ

Pic. & SD-card rec

Voice changer

No, thank you!
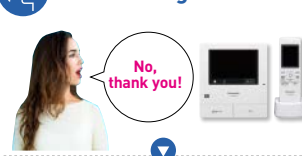
User-friendly & multilingual UI

No, thank you!
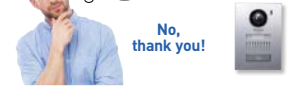
PBX compatible

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

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

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

Safety/Convenience

| 1940 | 1960 | 1980 | 1990 | 2008 | 2010 | 2012 | 2015 | 2016 |

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

Redeveloping results into the new products

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
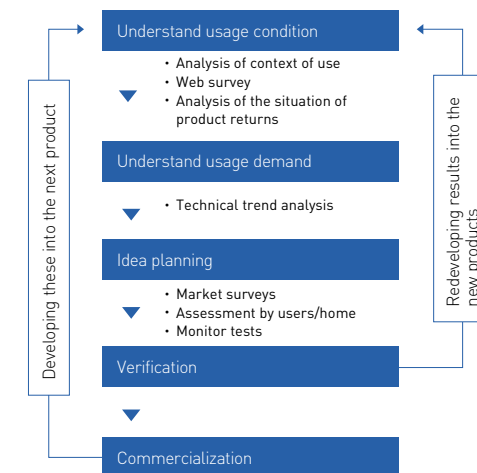- Monitor tests

Verification

Commercialization

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.

Development

Customer

Sales & Customer Satisfaction

Production

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
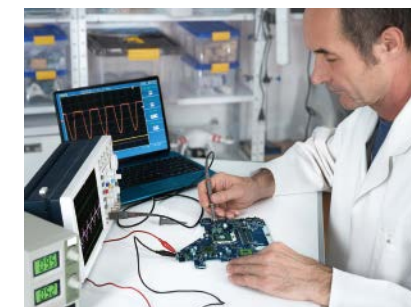
Numerous safety test items

High-reliability tests

VIEW AND TALK FLEXIBLY

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

Product Lineup

Stylish Premium DECT Wireless Series
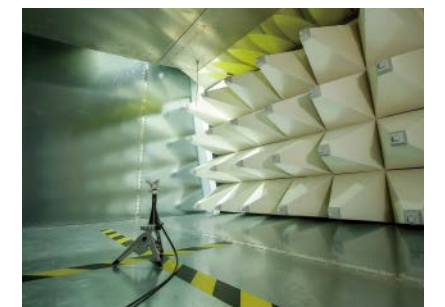**VL-SWD501**

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

Expandable DECT Wireless Series
VL-SWD273

1 x Main Monitor: VL-MWD273
1 x Door Station: VL-V554
1 x Wireless Sub Monitor: VL-WD613

Expandable DECT Wireless Series
VL-SWD272

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

Expandable Series
VL-SV72

1 x Main Monitor: VL-MV72
1 x Door Station: VL-V522L

Compatibility of Main Monitor, Wireless Monitor and Door Station
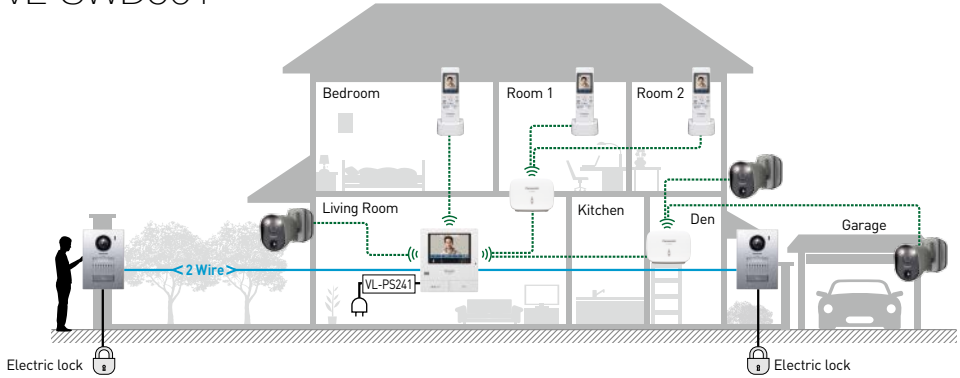Please contact your nearest Panasonic dealer for sales information.

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

Main Monitor (Package No.)		Power source	Display size	Extension Monitor	Wireless Sensor Camera VL-WD812 (DECT)	Wireless Sub Monitor (DECT) VL-WD613 2.2-inch	Wireless Sub Monitor (DECT) VL-FKD2 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 Module type VL-VM Series 1.0 M pixels	Lobby Station Analogue VL-V901 1.0 M pixels	Lobby Station IP VL-VN1900 2.0 M pixels
VL-MWD501 (*4) (VL-SWD501)		VL-PS241	5-inch WVGA colour /Touch Panel	x	O up to 4	● up to 6	O up to 2	●	O(*5)	O(*5)	O(*5)	x	O(*4, *5)	O(*4)	x	x
VL-MWD273 (VL-SWD273/SVD273)		VL-PS241	7-inch WVGA colour	O up to 3 (*6) VL-MWD273	x	● up to 6 (*6)	O up to 2	●	O(*5)	O(*5)	x	x	O(*5)	O	O	x
VL-MWD272 (VL-SWD272/SVD272)		AC	7-inch WVGA colour	O up to 3 (*6) VL-MWD272	x	● up to 6 (*6)	O up to 2	O	O	●	x	x	O	O	O	x
VL-MV72 (VL-SV72) VL-MV72A(*7)		VL-PS241	7-inch WVGA colour	O up to 3 VL-MV72	x	x	x	O	O	●	x	x	O	O	x	x
VL-MV10		Bus-powered type	3.5-inch QVGA colour	x	x	x	x	x	x	x	x	x	x	x	O	x	x
VL-MV26 VL-MV26A(*7)		VL-PS240	3.5-inch QVGA colour	x	x	x	x	x	x	x	x	x	x	x	x	O	x
VL-MN1000		PoE or VL-PS240(*7)	7-inch WVGA colour /Touch Screen	O up to 5 VL-MN1000	x	x	x	x	x	x	x	O	x	x	x	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 Monitor is not sold as a single unit.
* 5 The image quality may be lower than that of the Door Station included in the package, but this is not a malfunction.
* 6 A total of up to 6 sub monitors and extension monitors can be registered to the main monitor.
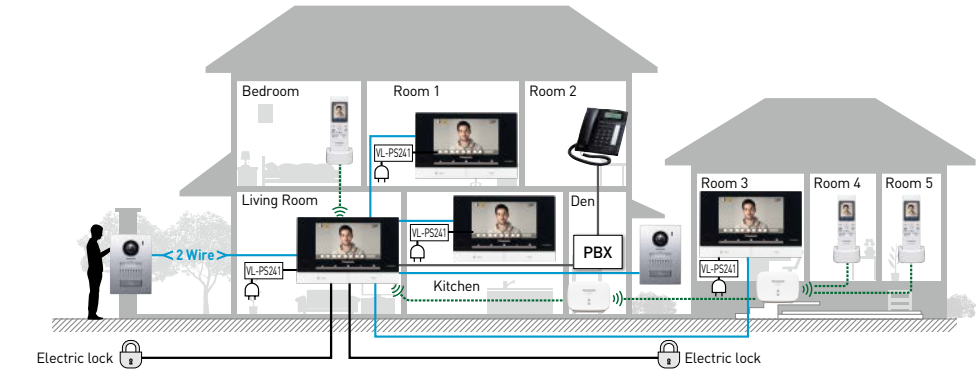* 7 Power Supply Unit (VL-PS240) is sold separately.

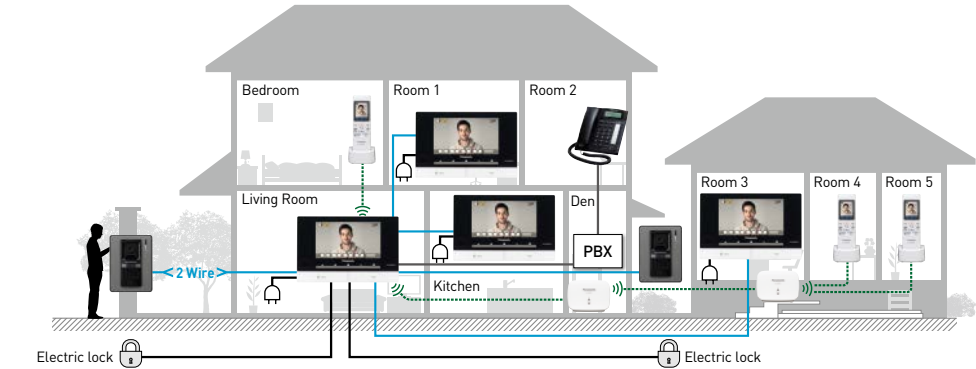## System Configuration Example

Wireless Video Intercom System
VL-SWD501

System Units

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

Wireless Video Intercom System
VL-SWD273

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

System Units

Main/Extension Monitor **VL-MWD273** Up to 3* (not including the main monitor)	Wireless Monitor Station **VL-WD613** Up to 6*
Door Station **VL-V554** Up to 2	DECT Repeater **VL-FKD2** Up to 2

Panasonic PBX
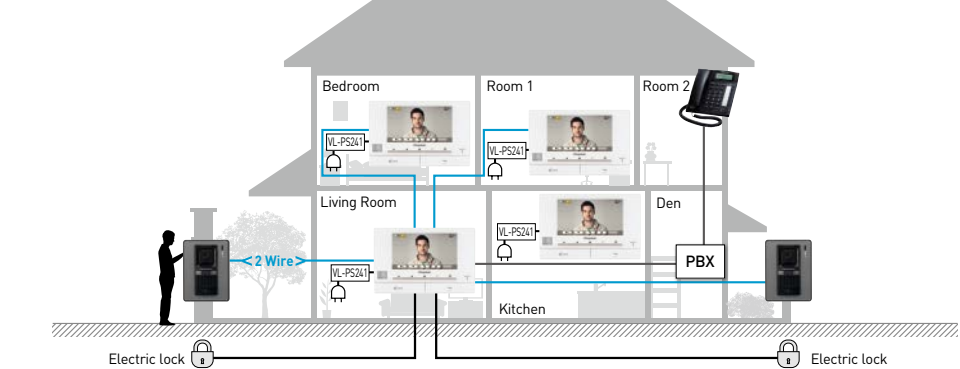Please consult your dealer when connecting with a PBX.
This image shows the KX-NS500.

Wireless Video Intercom System
VL-SWD272

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

System Units

Main/Extension Monitor **VL-MWD272** Up to 3* (not including the main monitor)	Wireless Monitor Station **VL-WD613** Up to 6*
Door Station **VL-V522L** Up to 2	DECT Repeater **VL-FKD2** Up to 2

Panasonic PBX
Please consult your dealer when connecting with a PBX.
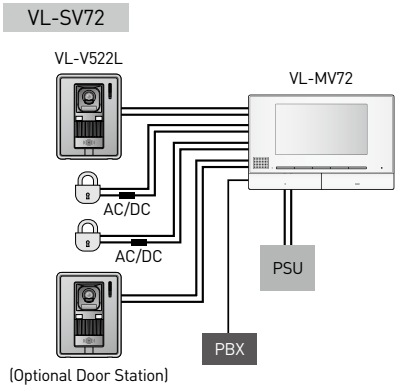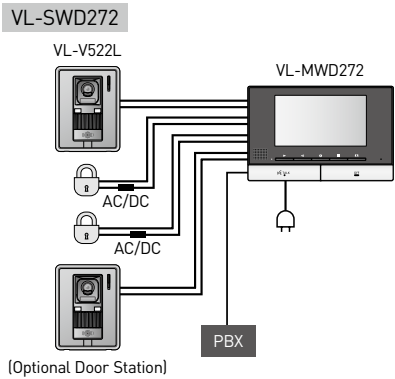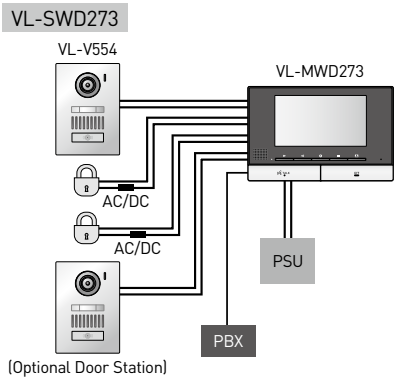This image shows the KX-NS500.

Video Intercom System
VL-SV72

System Units

Main/Extension Monitor **VL-MV72** Up to 3 (not including the main monitor)	Door Station **VL-V522L** Up to 2

Panasonic PBX
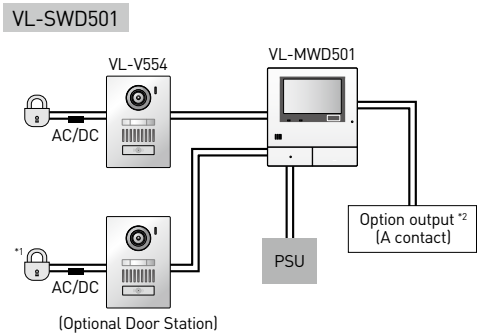Please consult your dealer when connecting with a PBX.
This image shows the KX-NS500.

Comparison Chart

Model Number		VL-SWD501	VL-SWD273	VL-SWD272	VL-SV72
Maximum Connectable Units	Door Station (Doorphone)	2 (Die-Cast Aluminium)	2	2	2
	Main Monitor / Extension Monitor	1 / —	1 / 3	1 / 3	1 / 3
	Wireless Sub Monitor	6 (DECT)	6 (DECT)	6 (DECT)	—
Recording	Video / Picture Recording	● / ●	— / ●	— / ●	— / ●
	SD Card Recording	●	—	—	—
Connectable Devices	Sensor Camera	● (4)	—	—	—
	Electric Lock Release (Door Opener)	● (2)*1	● (2)	● (2)	● (2)
	Panasonic PBX	—	●	●	●
	Repeater	● (2)	● (2)	● (2)	—
Others	Night Vision (LED Light)	●	●	●	●
	Touch Panel / Pan & Tilt	● / ●	— / ●	— / ● *2	— / ● *2
	Wide Angle Camera	● H: 170° V: 115°	● H: 170° V: 115°	● H: 87° V: 66°	● H: 87° V: 66°
	Intercom Call	●	●	●	●
	Voice Changer	●	●	●	●

*1 When connecting 2, an optional Door Station is required.
*2 These functions are not available for the supplied doorphone (VL-V522L). You can use these functions with optional doorphone.

Comparison of the wiring

VL-SWD501

VL-V554   VL-MWD501
AC/DC
*1 AC/DC
PSU
Option output *2 (A contact)
(Optional Door Station)

VL-SWD273

VL-V554   VL-MWD273
AC/DC
AC/DC
PSU
PBX
(Optional Door Station)

VL-SWD272

VL-V522L   VL-MWD272
AC/DC
AC/DC
PBX
(Optional Door Station)

VL-SV72

VL-V522L   VL-MV72
AC/DC
AC/DC
PSU
PBX
(Optional Door Station)

*1 When connecting 2 E-Lock, an optional Door Station is required.
*2 Devices that can be connected to the option output: doorbell light, door chime, rotating light, etc.
When using a Lobby Station (VL-V591), the option output is used by the Lobby Station for Electric lock.

🔒 : Electric lock
PSU : Power Supply Unit (included with a monitor)
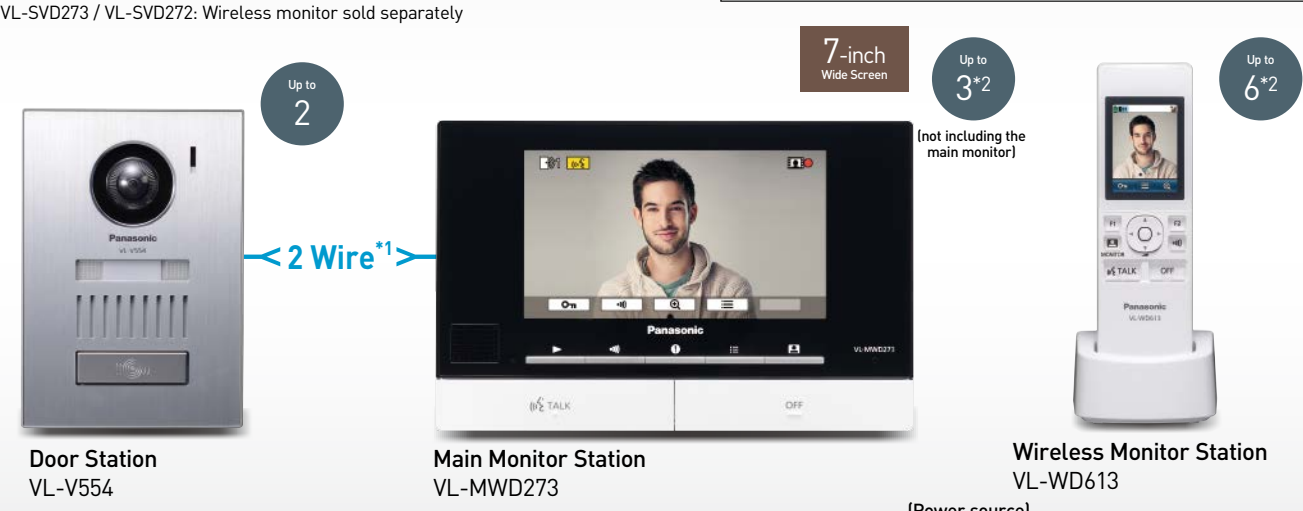
Stylish Premium DECT Wireless Series

Wireless Video Intercom System

VL-SWD501

5-inch Wide Screen

Up to **2**

Up to **6**

< **2 Wire** * >

Door Station
VL-V554

Main Monitor Station
VL-MWD501

Wireless Monitor Station
VL-WD613

(Power source)
VL-MWD501: 24 V DC Power supply unit (supplied)

* 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**

Up to **2**

SD Card Recording

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

Touch Panel

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

Other Features

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

< **2 Wire** *1 >

Door Station
VL-V522L

Main Monitor Station
VL-MWD272

Wireless Monitor Station
VL-WD613

Expandable DECT Wireless Series

Wireless Video Intercom System

VL-SWD273

VL-SVD273 / VL-SVD272: Wireless monitor sold separately

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-V554

Main Monitor Station
VL-MWD273

Wireless Monitor Station
VL-WD613

(Power source)
VL-MWD273: 24 V DC Power supply unit (supplied)
VL-MWD272: 220-240 V AC, 50/60 Hz

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

Highly Expandable

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

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
(DECT)

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

Other Features

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

Options

Door Station (Doorphone)	Flush Mounting Box	Door Station (Doorphone)	Wireless Monitor Station (Sub Monitor)	Wireless Sensor Camera	DECT Repeater	Lobby Station
VL-V554 (Surface mount) VL-V554U (Flush mount) CMOS 1.0 M pixels	VL-MB554	VL-V522L (Surface mount)	VL-WD613	VL-WD812	VL-FKD2	VL-V591
Up to 2		Up to 2	Up to 6	Up to 4	Up to 2	Up to 20 main monitors can be connected.

Options

Door Station (Doorphone)	Door Station (Doorphone)	Extension Monitor	Wireless Monitor Station (Sub Monitor)	DECT Repeater	Lobby Station	PBX Connectable PBX Model Numbers
VL-V522L (Surface mount)	VL-V554 (CMOS 1.0 M pixels) VL-V555 (CMOS 0.3 M pixels)	VL-MWD273 VL-MWD272	VL-WD613	VL-FKD2	VL-V591	KX-TDA30/100/100D/200/600 series KX-TDE100/200/600 series KX-NS300/500/700/1000 series
Up to 2	Up to 2	Up to 3	Up to 6	Up to 2	Up to 20 main monitors can be connected. This image shows the KX-NS500.	Please consult your dealer when connecting with a PBX.

Expandable Series

Video Intercom System

VL-SV72

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-MV72

(Power source)
VL-MV72: 24 V DC Power supply unit (supplied)

* 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**

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.

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.

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

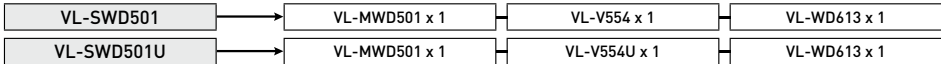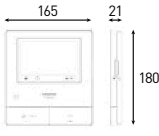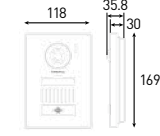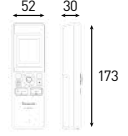| Door Station (Doorphone) VL-V522L (Surface mount)	Door Station (Doorphone) VL-V554 (CMOS 1.0 M pixels) VL-V555 (CMOS 0.3 M pixels)	Extension Monitor VL-MV72	Lobby Station VL-V591	PBX Connectable PBX Model Numbers
Up to **2**	Up to **2**	Up to **3**	Up to 20 main monitors can be connected.	KX-TDA30/100/100D/200/600 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.
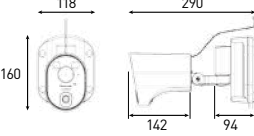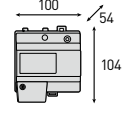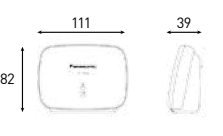
VL-SWD501

■ Model Composition

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

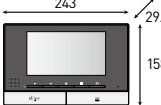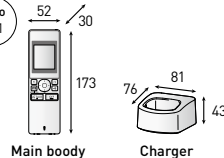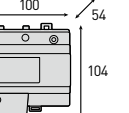| Model number and name	VL-MWD501	VL-V554 (Surface mount) VL-V554U (Flush mount)	VL-WD613	
	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main body	Charger
Dimensions (Unit: mm)	165 21 180	Up to **2** 118 35.8 30 169	Up to **6** 52 30 173	81 76 43
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A (VL-PS241 supplied)	Supplied by the main monitor 20 V DC, 0.23 A	Rechargeable Ni-MH (AAA x 2)	AC adaptor Output: 5.5 V DC, 0.5 A
Power consumption	Standby: Approx. 1.4 W Operating: Approx. 10 W	—	—	Standby: Approx. 0.4 W (when the sub monitor is not placed in the charger) During charging: Approx. 1.4 W
Dimensions (H x W x D) (Excluding protruding sections)	180 x 165 x 21 mm	VL-V554: 169 x 118 x 30 mm VL-V554U: 169 x 118 x 16.5 mm (excluding sections embedded into the wall)	173 x 52 x 30 mm	43 x 81 x 76 mm
Weight	470 g	VL-V554: 405 g VL-V554U: 345 g	160 g (including the batteries)	70 g (excluding the AC adaptor)
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +55 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	5-inch wide colour / WVGA (800x480 pixels)	—	2.2-inch colour / QVGA (320x240 pixels)	—
Display language	English	—	Depends on main monitor	—
Talking method	Hands-free	Hands-free	Hands-free	—
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz	—
Transmitting range	—	—	Approx. 100 m (line-of-sight distance from the main monitor)	—
Option output (A contact)	Rated load: 24 V AC/DC, 0.3 A or lower Minimum applicable load: 5 V DC, 0.001 A (Output when there is a call from the doorphone)	—	—	—
Viewing angle	—	Horizontally: Approx. 170° Vertically: Approx. 115°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 1.0 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights	—	—
IP rating / IK rating	—	IP54*1 / Compliant with IK07	—	—
Installation method	Wall mount (mounting bracket supplied)	VL-V554: surface mount (mounting base supplied) VL-V554U: flush mount (flush mounting box supplied)	—	—
External material	Flame retardant ABS and PS resin	Aluminium and flame retardant resin	ABS resin	ABS resin

Options

Model number and name	VL-WD812 (For VL-SWD501)		VL-FKD2 (For VL-MWD501 / VL-MWD273 / VL-MWD272)
	Wireless Sensor Camera	Power Supply Unit (VL-PS241)	DECT Repeater
Dimensions (Unit: mm)	Up to **4** 118 290 160 142 94	100 54 104	Up to **2** 111 39 82
Power source	Power supply unit (VL-PS241) 24 V DC, 0.4 A	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A	AC adaptor Output: 6.5 V DC, 0.5 A
Power consumption	During standby: Approx. 1.5 W Operating: 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 Operating: Approx. 2.3 W (when transmitting)
Dimensions (H x W x D)	160 x 118 x 290 mm (when the camera is front facing and including the wall mount bracket)	104 x 100 x 54 mm	82 x 111 x 39 mm
Weight	960 g	215 g	88 g (excluding the AC adaptor)
Operating environment	Ambient temperature: Approx. -20 °C to +50 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz
Transmitting range	Approx. 100 m (line-of-sight distance from the main monitor)	—	Approx. 100 m (line-of-sight distance from the main monitor)
Angular field of view (camera angle)	Horizontal: Approx. 53° Vertical: Approx. 41°	—	—
Image sensor	0.3 M pixels CMOS	—	—
Minimum illuminance required	1 lx*2	—	—
Lighting method	2 white coloured LED lights*3	—	—
Sensor detection range	Heat sensor (when the surrounding temperature is approx. 20 °C) Horizontal: Approx. 63°, vertical: Approx. 20°, detection range: Approx. 5 m Motion detection sensor Horizontal: Approx. 53°, vertical: Approx. 41°	—	—
Sensor detection method	Pyroelectric infrared sensor (heat sensor) and motion detection	—	—
Adjustable mounting angles	Horizontal: ±90°, vertical: facing forward - facing down approx. 60° (adjustable when mounting)	—	—
Heat sensor adjustable angles	Manually adjustable to 2 angles	—	—
IP rating	IP54*1	—	—
Installation method	Wall mount (wall mount bracket supplied)	Wall mount or attach to DIN rail	—
External material	PC+ABS resin	Flame retardant PC+ABS resin	PS resin

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

VL-SWD273 / VL-SVD273

■ Model Composition

| VL-SWD273 | → | VL-MWD273 x 1 | VL-V554 x 1 | VL-WD613 x 1 |
| VL-SVD273 | → | VL-MWD273 x 1 | VL-V554 x 1 | |

*VL-SVD273: Wireless monitors sold separately
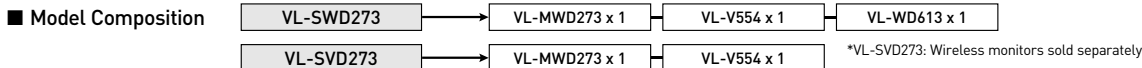
Model number and name	VL-MWD273	VL-V554 VL-V554U	VL-WD613	VL-PS241
	Main Monitor Station (Main monitor) Extension Monitor	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	Power supply unit
Dimensions (Unit: mm)	Up to 3*1 (not including the main monitor) 243 / 29.5 / 158	Up to 2 118 / 30 / 169	Up to 6*1 52 / 30 / 173 76 / 81 / 43 Main body / Charger	Up to 2 100 / 54 / 104
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A	Supplied by the main monitor 20 V DC, 0.23 A	Main body: Rechargeable Ni-MH (AAA x 2) Charger: 220-240 V AC, 0.1 A, 50/60 Hz Output: 5.5 V DC, 0.5 A	Input: 220-240 V AC, 0.2 A, 50/60 Hz Output: 24 V DC, 0.6 A
Power consumption	Standby: Approx. 1.8 W Operating: Approx. 11.6 W	—	Standby: 0.5 W (when the sub monitor is not placed in the charger) Operating: 1.6 W	—
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	VL-V554: 169 x 118 x 30 mm VL-V554U: 169 x 118 x 16.5 mm (excluding sections embedded into the wall)	Main body: 173 x 52 x 30 mm Charger: 43 x 81 x 76 mm	104 x 100 x 54 mm
Weight	710 g	VL-V554: 405 g VL-V554U: 345 g	Main body: 160 g (including the batteries) Charger: 70 g (excluding the AC adaptor)	215 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +50 °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 +50 °C Relative humidity (non-condensing): up to 90 %
Display	7-inch wide colour / WVGA (800x480 pixels)	—	2.2-inch colour / QVGA (320x240 pixels)	—
Display language	English, Arabic	—	English, Arabic	—
Talking method	Hands-free	—	—	—
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz	—
Transmitting range	—	—	Approx. 100 m (line-of-sight distance from the main monitor)	—
Viewing angle	—	Horizontally: Approx. 170° Vertically: Approx. 115°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 1.0 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights, Infrared LEDs	—	—
IP rating / IK rating	—	IP54*3 / Compliant with IK07	—	—
Installation method	Wall mount (mounting bracket supplied)	VL-V554: surface mount (mounting base supplied) VL-V554U: Flush mount (Flush mounting box supplied)	Wall mount or attach to DIN rail
External material	Flame retardant PC+ABS resin, Flame retardant ABS resin	Aluminium and flame retardant resin	ABS resin	Flame retardant PC+ABS resin

VL-SWD272 / VL-SVD272

■ Model Composition

| VL-SWD272 | → | VL-MWD272 x 1 | VL-V522L x 1 | VL-WD613 x 1 |
| VL-SVD272 | → | VL-MWD272 x 1 | VL-V522L x 1 | |

*VL-SVD272: Wireless monitors sold separately

Model number and name	VL-MWD272	VL-V522L	VL-WD613	
	Main Monitor Station (Main monitor) Extension Monitor	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main body	Charger
Dimensions (Unit: mm)	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 / 30 / 173	76 / 81 / 43
Power source	220-240 V AC, 50/60 Hz	Supplied by the main monitor	Rechargeable Ni-MH (AAA x 2)	AC adaptor Output: 5.5 V DC, 0.5 A
Power consumption	Standby: Approx. 2.5 W Operating: Approx. 10 W	—	—	Standby: Approx. 0.4 W (when the sub monitor is not placed in the charger) During charging: Approx. 1.4 W
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	131 x 99 x 36.5 mm	173 x 52 x 30 mm	43 x 81 x 76 mm
Weight	835 g*2	200 g	160 g (including the batteries)	70 g (excluding the AC adaptor)
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. -15 °C to +50 °C Relative humidity (non-condensing): up to 90 % (tested up to -20 °C)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	7-inch wide colour / WVGA (800x480 pixels)	—	2.2-inch colour / QVGA (320x240 pixels)	—
Display language	English, Arabic	—	Depends on main monitor	—
Talking method	Hands-free	Hands-free	Hands-free	—
Frequency range	1.88 GHz to 1.90 GHz	—	1.88 GHz to 1.90 GHz	—
Transmitting range	—	—	Approx. 100 m (line-of-sight distance from the main monitor)	—
Viewing angle	—	Horizontally: Approx. 87° Vertically: Approx. 66°	—	—
Image sensor / camera (pixel)	—	CMOS sensor (Approx. 0.3 M pixels)	—	—
Minimum illuminance required	—	1 lx (within approx. 50 cm from the camera lens)	—	—
Lighting method	—	Warm white coloured LED lights, Infrared LEDs	—	—
IP rating / IK rating	—	IPX3*3	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied)	ABS resin	ABS resin
External material	Flame retardant PC+ABS resin, Flame retardant ABS resin	Flame retardant ABS resin	ABS resin	ABS resin

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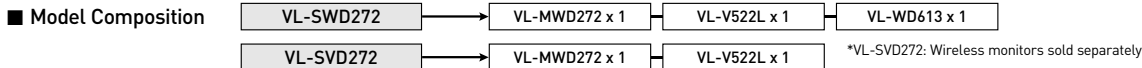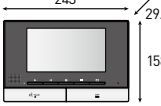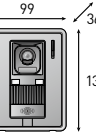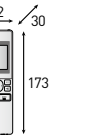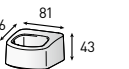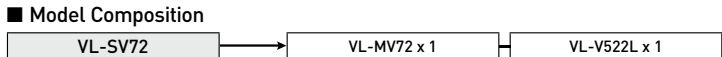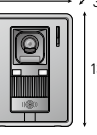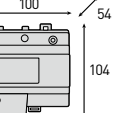*3 Water resistance is only assured if the doorphone is installed correctly according to the instructions in the Installation Guide, and appropriate water protection measures are taken.

VL-SV72

■ Model Composition

| VL-SV72 | → | VL-MV72 x 1 | VL-V522L x 1 |

Model number and name	VL-MV72	VL-V522L	VL-PS241
	Main Monitor Station (Main monitor) Extension Monitor	Door Station (Doorphone)	Power supply unit
Dimensions (Unit: mm)	Up to 3 (not including the main monitor) 243 / 29.5 / 158	Up to 2 99 / 36.5 / 131	Up to 2 100 / 54 / 104
Power source	Power supply unit (VL-PS241) 24 V DC, 0.4 A	Supplied by the main monitor	Input: 220-240 V AC, 0.2 A, 50/60 Hz Output: 24 V DC, 0.6 A
Power consumption	Standby: Approx. 1.6 W Operating: Approx. 9.8 W	—	—
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	131 x 99 x 36.5 mm	104 x 100 x 54 mm
Weight	710 g	200 g	215 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 %
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)	Wall mount or attach to DIN rail
External material	Flame retardant ABS resin	Flame retardant ABS resin	Flame retardant PC+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.
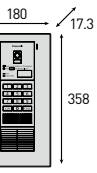
VL-V591

Model number and name	VL-V591
	Lobby Station
Dimensions (Unit: mm)	180 / 17.3 / 358 Up to 20 main monitors can be connected.
Power source	Power supply unit (VL-PS241) 24 V DC, 0.6 A
Power consumption	Standby: Approx. 0.02 A Operating: Approx. 0.03 A
Dimensions (H x W x D) (Excluding protruding sections)	Approx. 358 x 180 x 17.3 mm
Weight	Approx. 2.0 kg
Operating environment	Ambient temperature: Approx. -10 °C to +50 °C Relative humidity (non-condensing): up to 90 %
Talking method	Hands-free
Viewing angle	Horizontally: Approx. 87° Vertically: Approx. 66°
Image sensor / camera (pixel)	CMOS sensor (Approx. 0.3 M pixels)
Installation method	Flush mount (Flush mounted box included)
External material	Stainless steel and flame retardant ABS resin

Video Intercom Multi Door System
for Small Size Apartment

Module Lineup

VL-VM101 — Camera Module

VL-VM301 — 1-Button Module

VL-VM302 — 2-Button Module

VL-VM303 — 3-Button Module

VL-VM304 — 4-Button Module

VL-VM901 — Blank Panel

VL-VM801 — Extension Cable (1 m, 15 g)

VL-VM502 / VM503 — Surface Mount Cover (Small type / Large type)

VL-VM602 / VM603 — Back Box (Small type / Large type)

VL-PS2410 — Power Supply Unit (2.5A type)

VL-VM701 — Distributor

VL-V703 — Extension Box

VL-PS240 — Power Supply Unit (0.6A type)

Main Features

Freely mix and match

A flexible system that accommodates up to 32 rooms can be designed by combining call button modules.

Easy-to-see and use call buttons

The large call buttons with integrated nameplate and backlight make it visible in the dark and enhance its operability and visibility.

Front access name plate

While our unique front-access nameplates are easily removed by hand, front access can also be prohibited with screws.

Name Plate A

Compact design

Its compact design allows it to be installed in a variety of locations.
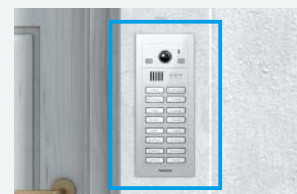
Specifications

Lobby Station	Flush mount (Small type)	Flush mount (Large type)	Surface mount (Small type)	Surface mount (Large type)
Composition	VL-VM101 x 1pcs. VL-VM304 x 2pcs. VL-VM602 x 1pcs. (Small type)	VL-VM101 x 1pcs. VL-VM304 x 4pcs. VL-VM603 x 1pcs. (Large type)	VL-VM101 x 1pcs. VL-VM304 x 2pcs. VL-VM602 x 1pcs. (Small type) VL-VM502 x 1pcs. (Small type)	VL-VM101 x 1pcs. VL-VM304 x 4pcs. VL-VM603 x 1pcs. (Large type) VL-VM503 x 1pcs. (Large type)
Dimensions (H x W x D) (Excluding protruding sections)	226 x 130 x 9 mm*1	315 x 130 x 9 mm*1	233 x 135 x 89 mm	322 x 135 x 89 mm
Weight	1.3 kg	1.8 kg	1.7 kg	2.2 kg
Power source	Power supply unit (sold separately): VL-PS240 (24V DC, 0.6A) or VL-PS2410 (24V DC, 2.5A)			
Power consumption	Refer to "Power Supply Unit Estimate" on the second page			

Model number and name	VL-VM602 Back Box (Small type)	VL-VM603 Back Box (Large type)	VL-VM502 Surface Mount Cover (Small type)	VL-VM503 Surface Mount Cover (Large type)
Dimensions (H x W x D) (Excluding protruding sections)	226 x 130 x 59 mm	315 x 130 x 59 mm	233 x 134.5 x 88 mm	322 x 134.5 x 88 mm
Weight	VL-VM602: 720 g	VL-VM603: 930 g	VL-VM502: 355 g	VL-VM503: 445 g
Operating environment	Ambient temperature: Approx -15 °C to +55 °C, Relative humidity (non-condensing): Up to 90 %		Ambient temperature: Approx -15 °C to +55 °C, Relative humidity (non-condensing): Up to 90 %	
External material	Aluminium and Steel (SPCC)		Stainless steel (SUS304)	

Model number and name	VL-VM101 Camera Module	VL-VM301/302/303/304 Button Module	VL-VM901 Blank Panel
Dimensions (H x W x D) (Excluding protruding sections)	90.5 x 117.5 x 56.5 mm	46 x 117.5 x 40 mm	46 x 117.5 x 5 mm
Weight	315 g	120 g	50 g
Operating environment	Ambient temperature: Approx -15 °C to +55 °C, Relative humidity (non-condensing): Up to 90 %		
Talking method	Hands-free	-	-
View angle	Horizontally: Approx. 170° Vertically: Approx. 110°	-	-
IP rating / IK rating	IP55*2 / Compliant with IK08		
Image sensor	(1/4 inch) CMOS sensor (approx. 1.0 M pixels)	-	-
Minimum illuminance required	1 lx (within approx. 50 cm from the camera lens)	-	-
Lighting method	White coloured LED lights	-	-
External material	Aluminium (partially PC and ABS)	Aluminium (partially PC and ABS)	Aluminium

Model number and name	VL-PS240 Power Supply Unit (0.6A type)	VL-PS2410 Power Supply Unit (2.5A type)	VL-VM701 Distributor	VL-V703 Extension Box
Dimensions (H x W x D) (Excluding protruding sections)	116 x 100 x 54 mm	116 x 210 x 58 mm	133 x 210 x 51 mm	108.5 x 210 x 52.5 mm
Power source	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A	Input: 220-240 V AC, 1 A (50/60 Hz) Output: 24 V DC, 2.5 A	Power supply unit (sold separately): VL-PS240 (24V DC, 0.6A) or VL-PS2410 (24V DC, 2.5A)	Power supply unit (VL-PS240) 24 V DC, 0.6A
Power consumption	-	-	Refer to "Power Supply Unit Estimate" on the second page	Standby: Approx. 1.5 W Operating: Approx. 1.5 W
Weight	230 g	530 g	440 g	350 g
Operating environment	Ambient temperature: Approx. 0 °C to +50 °C, Relative humidity (non-condensing): up to 90 % (indoor use only)	Ambient temperature: Approx 0 °C to +50 °C, Relative humidity (non-condensing): Up to 90 %	Ambient temperature: Approx -10 °C to +55 °C, Relative humidity (non-condensing): Up to 90 %	Ambient temperature: Approx -10 °C to +50 °C, Relative humidity (non-condensing): Up to 90 %
External material	Flame retardant PC+ABS resin	Flame retardant PC+ABS resin	ABS (flame retardant ABS resin)	ABS (flame retardant ABS resin)

Model number and name	VL-MV10 Monitor
Dimensions (H x W x D) (Excluding protruding sections)	149 x 130 x 25 mm
Power source	Supplied by the bus line (from a distributor or a lobby station)
Power consumption	Refer to "Power Supply Unit Estimate" on the second page
Weight	270 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C, Relative humidity (non-condensing): up to 90 %
Display	3.5-inch colour / QVGA (320x240 pixels)
External material	Flame retardant ABS
Supported functions	
Electric lock release support	Up to 1 (for Lobby Station)
Pan, Tilt, Zoom	with 3 mode PAN (for VL-VM101)
Monitoring outside	-
Expanded interface	Door bell input × 1, A contact output × 1

Installation Position and Camera Range

Side view
Approx. 110°
Image range
Approx. 2150 mm
Centre of the Camera lens
Approx. 1400 mm
Approx. 1500 mm
Approx. 500 mm
Approx. 750 mm

Top view (view when looking from above)
Approx. 170°
Approx. 500 mm

*1 Excluding sections embedded into the wall.
*2 Water resistance is only assured if the product is installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.

Bus Wiring

Up to 8 Distributors

Up to 32 Room Units

#4

#3

#2

Distributor #1 VL-VM701

2 wire, NP

VL-PS2410 *1

2 wire, NP

Extension Box VL-V703

PSU *2

Distributor #8 VL-VM701

#7

#6

#5

Up to 6 Lobby Stations

#1 2 wire, NP VL-PS240 Lobby Station
#2 2 wire, NP VL-PS240 Lobby Station
#3 2 wire, NP VL-PS240 Lobby Station
#4 2 wire, NP VL-PS240 Lobby Station
#5 2 wire, NP VL-PS240 Lobby Station
#6 2 wire, NP VL-PS240 Lobby Station

NP: Non-Polar
PSU : Power Supply Unit

Wiring distance:
Lobby Station – Farthest Distributor Distributor (VL-VM701)*3 – Monitor*4 — Up to 100 m (ø0.65 mm) / Up to 200 m (ø1.20 mm) — Up to 100 m (ø0.65 mm) / Up to 200 m (ø1.20 mm)
PSU (VL-PS240) – Lobby Station — Up to 10 m (ø0.65 mm) / Up to 20 m (ø2.0 mm)
PSU (VL-PS2410) – Lobby Station — Up to 50 m (ø0.65 mm) / Up to 100 m (ø2.0 mm)
PSU (VL-PS240/PS2410) – Distributor — Up to 10 m (ø0.65 mm) / Up to 20 m (ø2.0 mm)

Power Supply Unit Estimate (For Bus Wiring)
(Unit: pcs.)

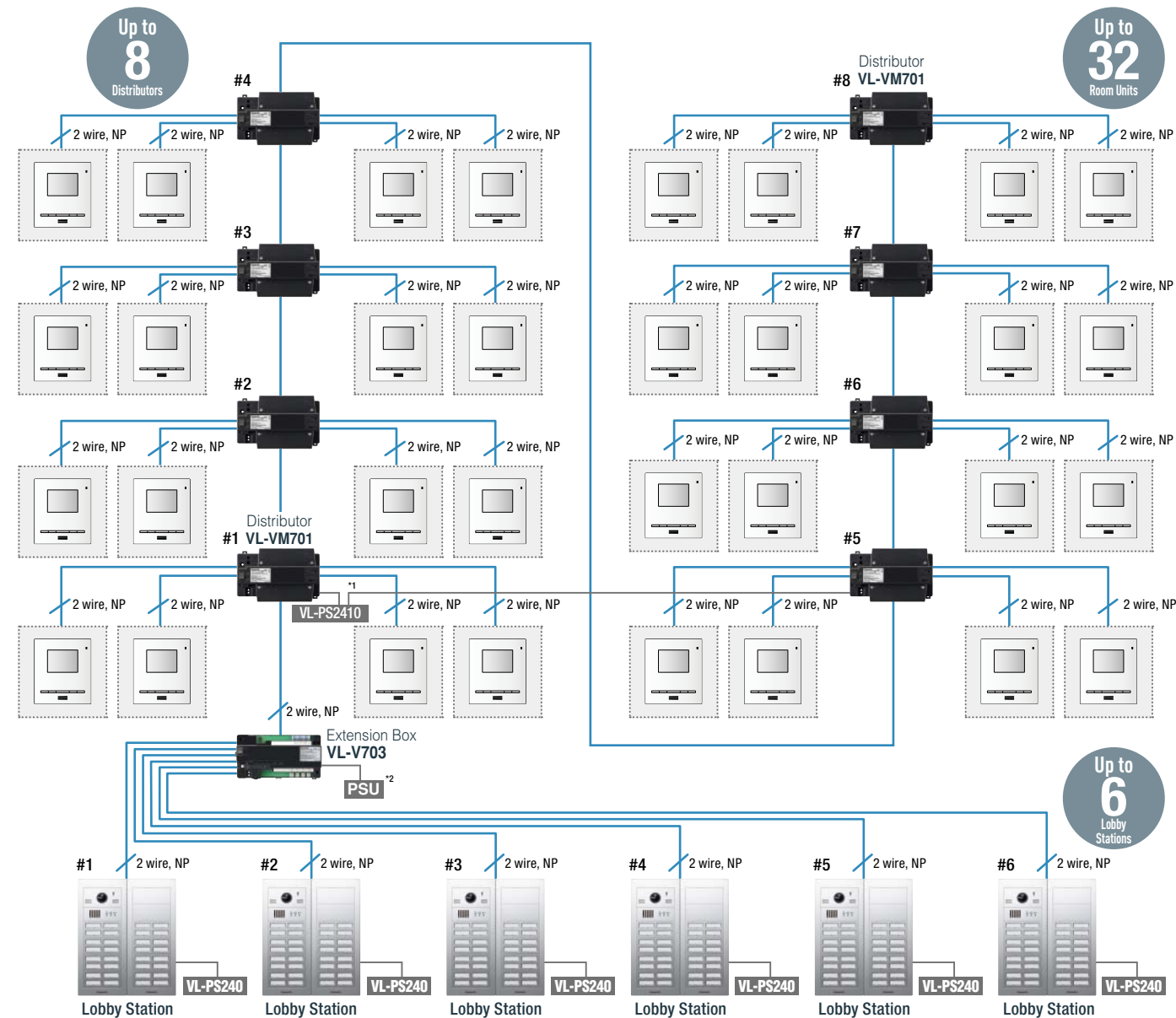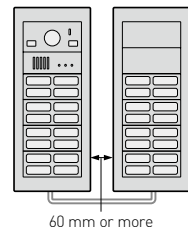| Monitor	1~4	5~8	9~12	13~16	17~20	21~24	25~28	29~32
Distributor VL-VM701	1	2	3	4	5	6	7	8
Power Supply Unit VL-PS240	1				-			
Power Supply Unit VL-PS2410	-				1			

Excludes quantity of Power Supply Units used by Lobby Stations. This is an estimate of a minimal configuration. The actual configuration depends on the installation environment/conditions.

*1 When a VL-MV10 is connected using 1 VL-PS2410 power supply unit
   If the system consists of 1 VL-PS2410 and 5 or more distributors are used, connect wiring from the VL-PS2410 to the 1st and 5th distributors.
*2 A Power Supply Unit (VL-PS240) is included with the Extension Box (VL-V703).
*3 Distributor connected to power supply unit (when using VL-MV10)
*4 Farthest monitor (when using VL-MV10)

Lobby Station Components

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

Surface Mount

60 mm or more

When the surface mount installation method is used to install 2 Lobby Stations side-by-side, a gap of 60 mm or more is required.
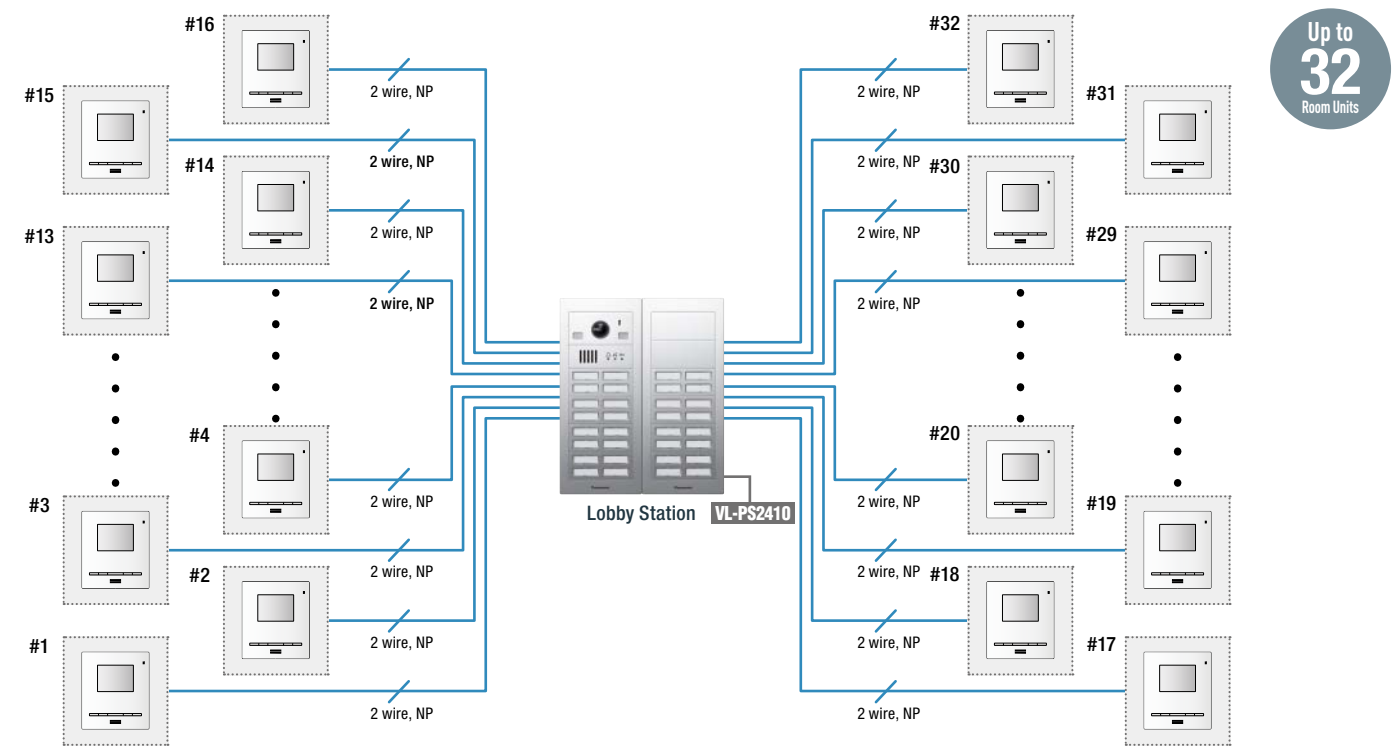
*The surface mount cover cannot be attached when the lobby station is flush mounted. However, make sure to use the surface mount cover when the lobby station is surface mounted.

Star-shaped Wiring

#16 #15 #14 #13 ... #4 #3 #2 #1

2 wire, NP

Lobby Station VL-PS2410

Up to 32 Room Units

#32 #31 #30 #29 ... #20 #19 #18 #17

2 wire, NP

Wiring distance:
Lobby Station – Monitor — Up to 100 m (ø0.65 mm) / Up to 200 m (ø1.20 mm)
PSU (VL-PS240) – Lobby Station — Up to 10 m (ø0.65 mm) / Up to 20 m (ø2.0 mm)
PSU (VL-PS2410) – Lobby Station — Up to 50 m (ø0.65 mm) / Up to 100 m (ø2.0 mm)

Power Supply Unit Estimate (For Star-shaped Wiring)
(Unit: pcs.)

Monitor	1~4	5~32
Lobby Station	1	
Power Supply Unit VL-PS240 (0.6A)	1	-
Power Supply Unit VL-PS2410 (2.5A)	-	1

This is an estimate of a minimal configuration. The actual configuration depends on the installation environment/conditions.

Monitor Lineup

VL-MWD272/VL-MWD273

VL-V522L

VL-MWD272 / VL-MWD273

Total Up to 6

Wireless Monitor

PSU

Lobby Station

Power Source
VL-MWD272: 220-240 V AC, 50/60 Hz
VL-MWD273: 24 V DC Power supply unit (supplied)

VL-MWD272/VL-MWD273

VL-MV10

Door Bell VL-MV10

Power Source
Supplied by the bus line or a lobby station

PSU

Lobby Station

Option output *1 (A contact)

VL-MV72/VL-MV72A
(Wireless monitors NOT supported)

VL-V522L

VL-MV72/VL-MV72A

Up to 3

PSU

Lobby Station

Power Source
VL-MV72: 24V DC Power supply unit (supplied)
VL-MV72A: Power supply unit sold separately

VL-MV72/VL-MV72A

PSU : Power Supply Unit

*1 Devices that can be connected to the option output: doorbell light, door chime, rotating light, etc.

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.

Main Features

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

Other Features

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

Room Monitor
VL-MN1000

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

Main Features

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

Other Features

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

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Door Station
VL-VN1500

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

Main Features

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

Other Features

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

Control Box
VL-VN1700

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

Main Features

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

Other Features

- E-mail notification*
  Even if the guard is out, voice mails from residents to the guard station (SIP Phone) can be forwarded via e-mail, enabling quick access to important voice mail
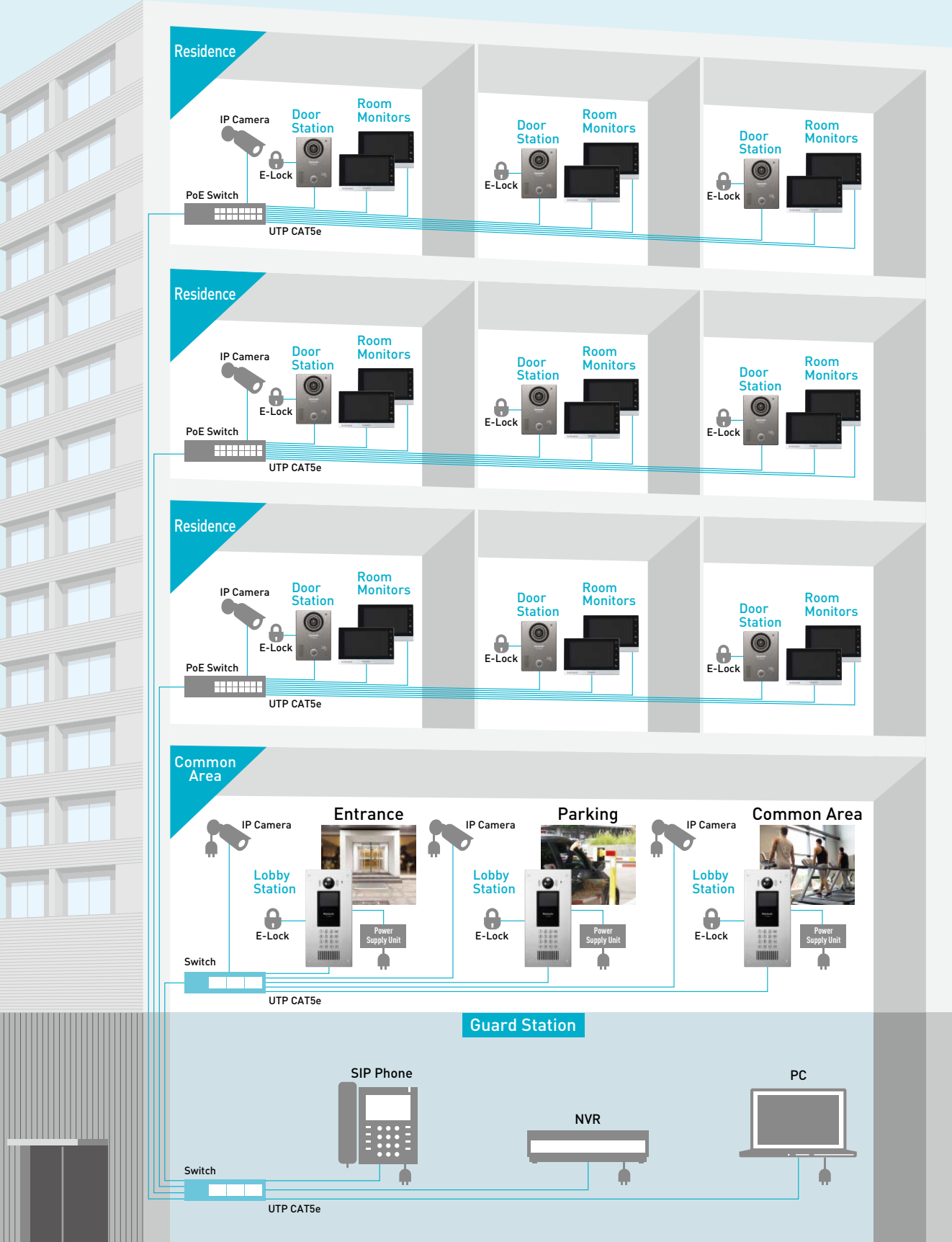 * External mail server and an internet connection are required.

System Diagram of the Apartment System

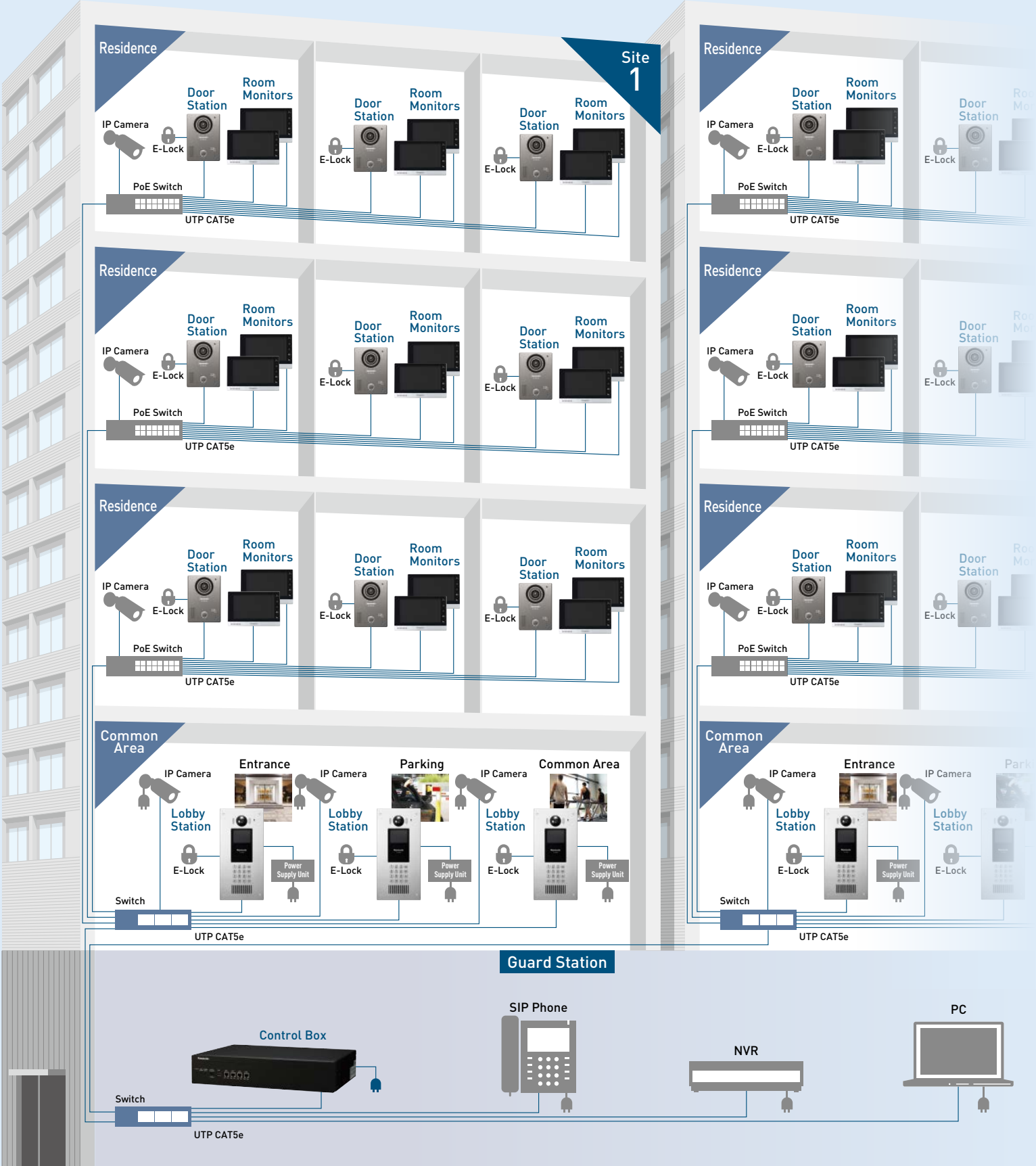## Support up to 200 devices on a system without a Control Box

FUNCTION

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

Residence
- IP Camera
- Door Station
- Room Monitors
- E-Lock
- PoE Switch
- UTP CAT5e

Common Area
- IP Camera — Entrance — Lobby Station — E-Lock — Power Supply Unit
- IP Camera — Parking — Lobby Station — E-Lock — Power Supply Unit
- IP Camera — Common Area — Lobby Station — E-Lock — Power Supply Unit
- Switch — UTP CAT5e

Guard Station
- SIP Phone
- NVR
- PC
- Switch
- UTP CAT5e

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

Site 1

Residence
- IP Camera
- Door Station
- Room Monitors
- E-Lock
- PoE Switch
- UTP CAT5e

Common Area
- IP Camera — Entrance — Lobby Station — E-Lock — Power Supply Unit
- IP Camera — Parking — Lobby Station — E-Lock — Power Supply Unit
- IP Camera — Common Area — Lobby Station — E-Lock — Power Supply Unit
- Switch — UTP CAT5e

Guard Station
- Control Box
- SIP Phone
- NVR
- PC
- Switch
- UTP CAT5e

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

Panasonic

VL-V901

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.
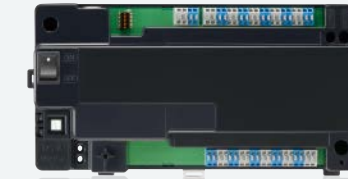
Lift Controller
VL-V702

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.
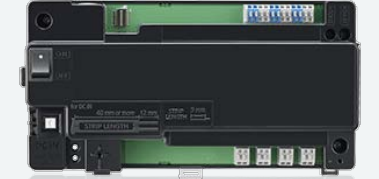
Extension Box
VL-V703

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-V901

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. 110°
- 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
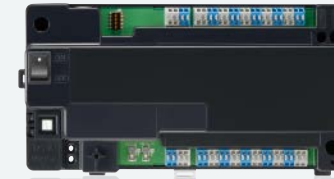
- Security camera
- Electric lock
- Access controller

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-MWD273	VL-MWD272	VL-MV72/VL-MV72A*1	VL-MV26/VL-MV26A*1
	VL-PS241 [Power Supply Unit]		VL-PS241 [Power Supply Unit]	VL-PS240 [Power Supply Unit]
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A	220-240 V AC (50/60 Hz)	Power supply unit (VL-PS241)*1 24 V DC, 0.4 A	Power supply unit (VL-PS240)*1 24 V DC, 0.5 A
Power consumption (approx.)	Standby: Approx. 1.8 W Operating: Approx. 11.6 W	Standby: Approx. 2.5 W Operating: Approx. 10.0 W	Standby: VL-MV72: 1.6 W VL-MV72A: 1.6 W (Including VL-PS240/PS241) 1.7 W (Including VL-PS2410) Operating: VL-MV72: 9.8 W VL-MV72A: 9.8 W (Including VL-PS240/PS241) 9.9 W (Including VL-PS2410)	Standby: Approx. 1.2 W Operating: Approx. 8.0 W
Dimensions (H x W x D) (Excluding protruding sections)	158 x 243 x 29.5 mm	158 x 243 x 29.5 mm	158 x 243 x 29.5 mm	169 x 129 x 29 mm
Weight	710 g	835 g*2	710 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)	7-inch wide colour / WVGA (800x480 pixels)	7-inch wide colour / WVGA (800x480 pixels)	3.5-inch colour / QVGA (320x240 pixels)
Display language	English, Arabic	English, Arabic	English, Arabic	English
Frequency range	1.88 GHz to 1.90 GHz	1.88 GHz to 1.90 GHz	-	-
Installation method	Wall mount (mounting bracket supplied)			
External material	Flame retardant PC+ABS resin, Flame retardant ABS resin	Flame retardant PC+ABS resin, Flame retardant ABS resin	Flame retardant ABS 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-V554/V554U, VL-V555, V522L) 1 door bell input	1 door station input (VL-V554/V554U, VL-V555, V522L) 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 (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 30 images (up to 30 visitors, 1 shot per visitor)
Voice changer	Yes	Yes	Yes	-
Pan, Tilt, Zoom	Pan, Tilt, Zoom (for VL-V901, VL-V554/V554U, VL-V555)	Pan, Tilt, Zoom (for VL-V901, VL-V554/V554U, VL-V555)	Pan, Tilt, Zoom (for VL-V901, VL-V554/V554U, VL-V555)	-
Wireless monitor	Up to 6 (VL-WD613)*3	Up to 6 (VL-WD613)*3	-	-
Extension monitor	Up to 3 (VL-MWD273)*3	Up to 3 (VL-MWD273)*3	Up to 3 (VL-MV72, VL-MV72A)	-
Repeater	Up to 2 (VL-FKD2)	Up to 2 (VL-FKD2)	-	-
Intercom call	Yes (between main monitor, sub monitor, and extension monitor)	Yes (between main monitor, sub monitor, and extension monitor)	Yes (between main monitor and extension monitor)	-
Other functions	• Guard call • Monitor security camera • Emergency call	• Guard call • Monitor security camera • Emergency call	• Guard call • Monitor security camera • Emergency call	• Guard call*4 • Monitor security camera • Emergency call*4

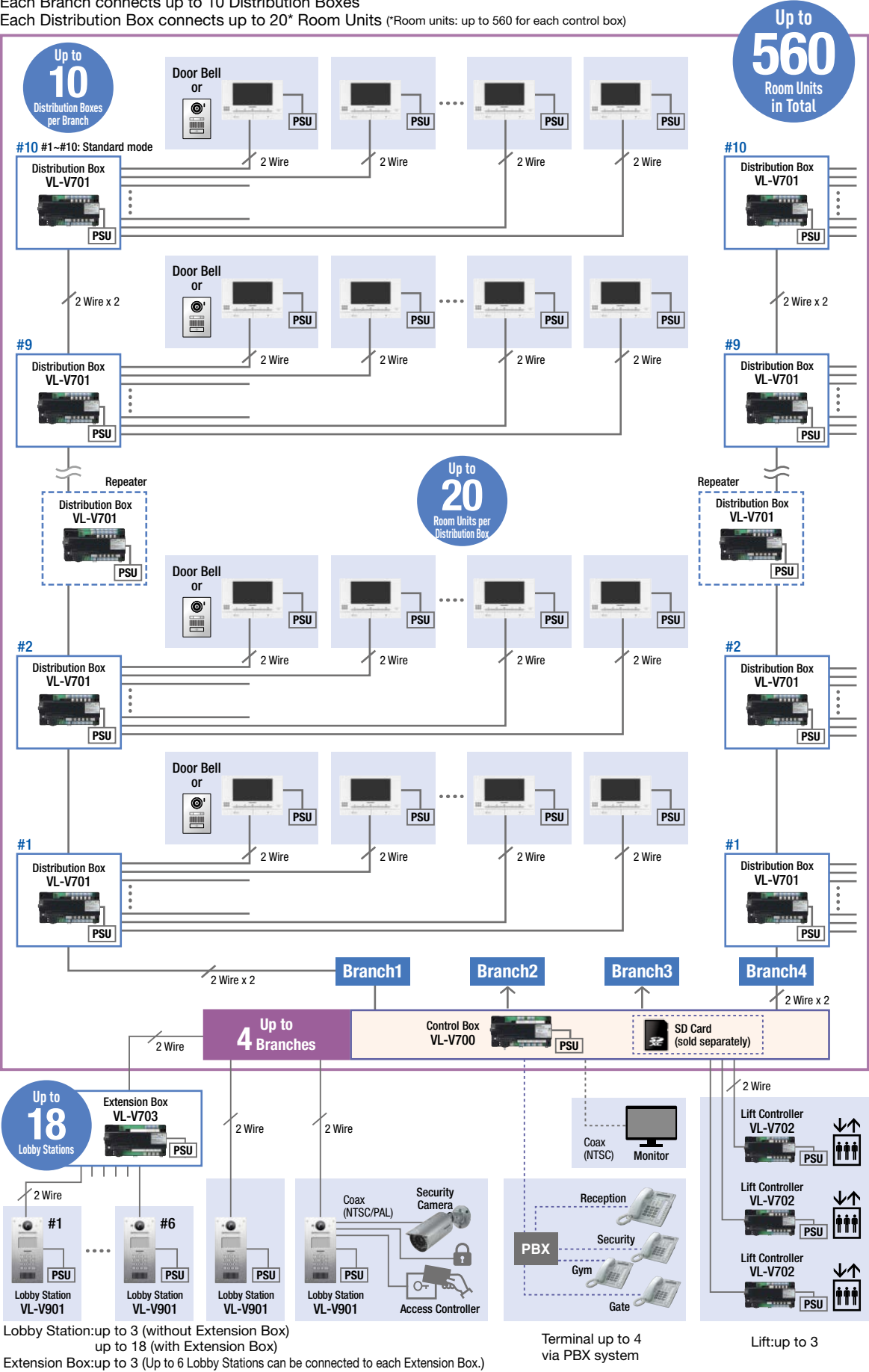*1 VL-MV72A/VL-MV26A: Power Supply Unit sold separately.
*2 Including AC cable.
*3 Up to 6 additional monitors (Extension monitor/Wireless sub monitor) can be connected. (*up to 3 of extension monitors)
*4 Either one can be connected.

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

Up to **20** Room Units per Distribution Box

Door Bell or — Distribution Box VL-V701 — PSU

Branch1 Branch2 Branch3 Branch4

Up to **4** Branches — Control Box VL-V700 — SD Card (sold separately)

Up to **18** Lobby Stations — Extension Box VL-V703

Lobby Station VL-V901

Lobby Station:up to 3 (without Extension Box)
up to 18 (with Extension Box)
Extension Box:up to 3 (Up to 6 Lobby Stations can be connected to each Extension Box.)

Terminal up to 4 via PBX system
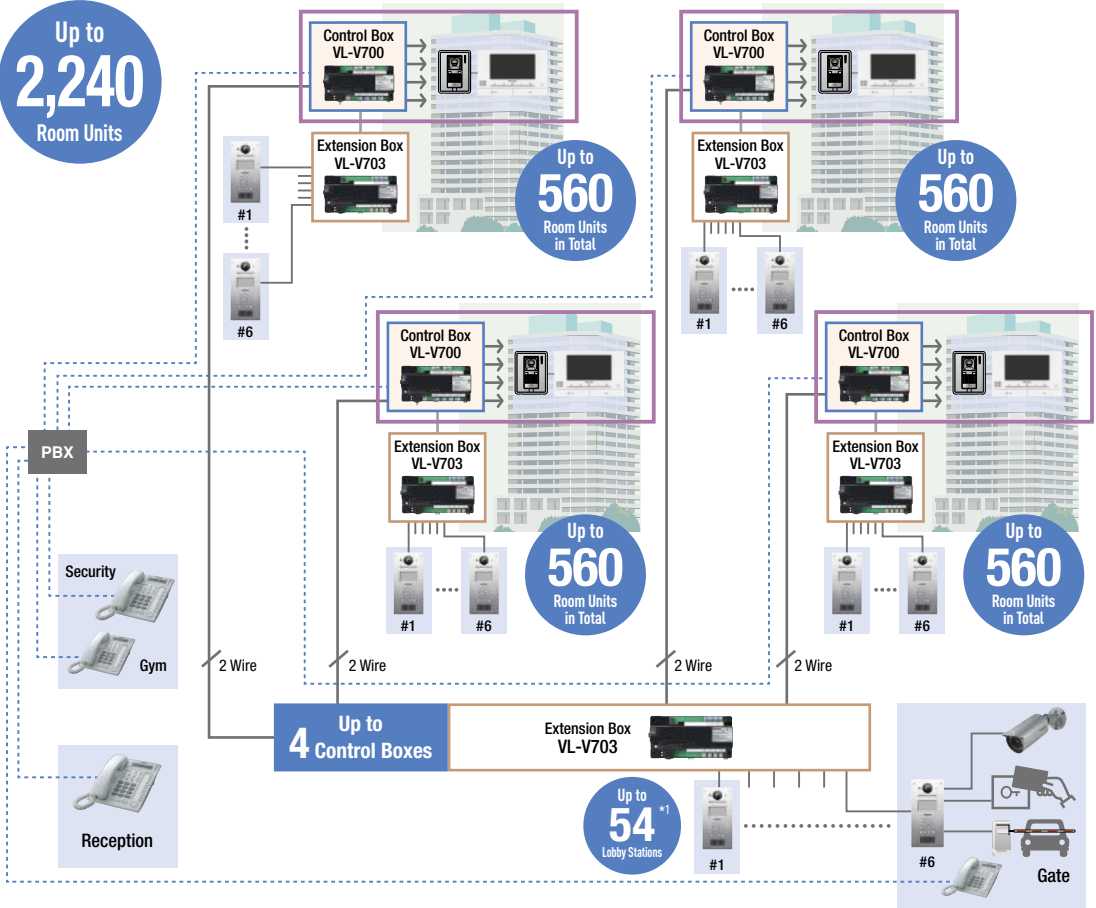Lift:up to 3

Lift Controller VL-V702

- Extension Boxes do not operate as repeaters that allow longer distances between the Control Box and Lobby Stations.
- Lobby Stations (VL-V901) connected to Extension Boxes (VL-V703) cannot be called from the main monitors or terminals.

Expanded System for Multi building

Up to 2,240 Room Units

Control Box VL-V700
Extension Box VL-V703

Up to 560 Room Units in Total

Up to **4** Control Boxes — Extension Box VL-V703

Up to **54** *1 Lobby Stations

PBX — Security — Gym — Reception

Gate

Expanded System for Large scale building

There are restrictions*2 on the system

Control Box VL-V700

Up to 560 Room Units in Total

Up to **4** Control Boxes — Extension Box VL-V703

Up to **54** *1 Lobby Stations

Up to 2,240 Room Units

PBX — Reception — Security — Gym — Gate

Lobby Station VL-V901
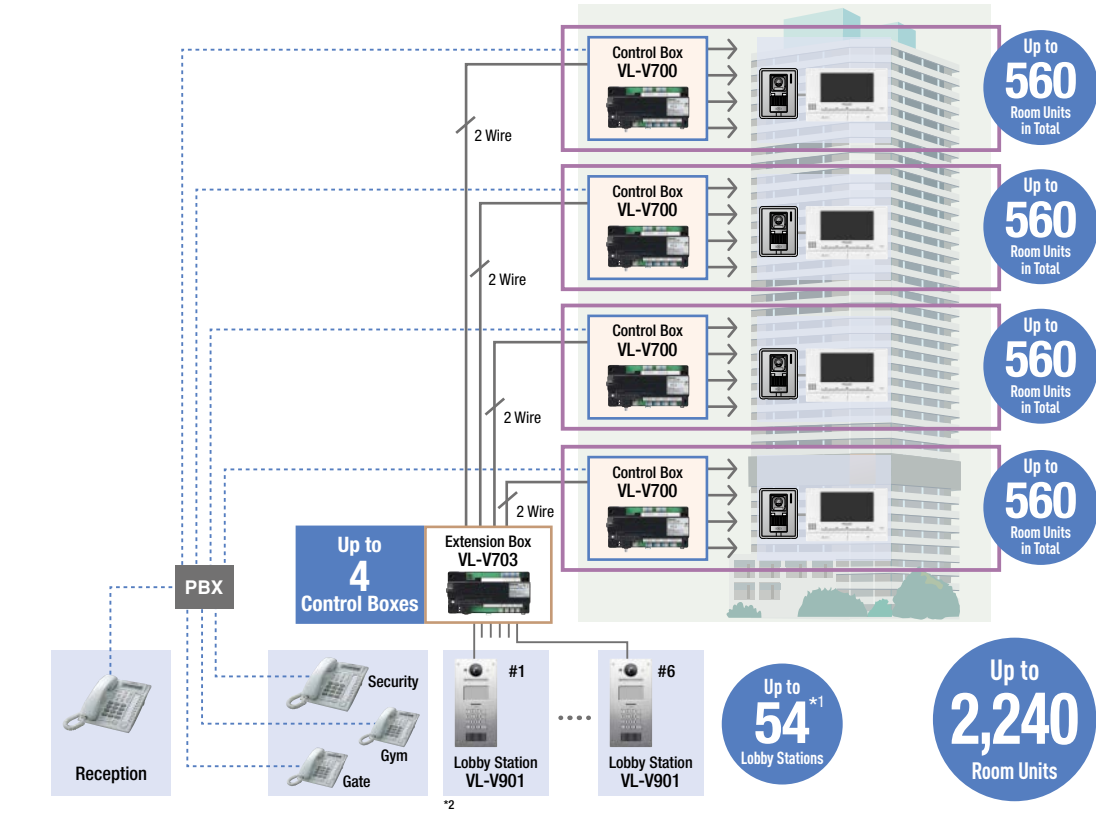
*1 There are usage restrictions when connecting more than 19 Lobby Stations. Consult your certified Panasonic dealer for more information.
*2 When a visitor calls a resident from the Lobby Station on a system with multiple Control Boxes installed in one building, even though there is only one building, the visitor needs to enter the building number before entering the room number.

Monitor Lineup

VL-MWD272/VL-MWD273

Door Bell or — Main monitor — Up to **6** Wireless monitor VL-WD613

Power Source
VL-MWD272 : 220-240 V AC, 50/60 Hz
VL-MWD273 : 24 V DC Power supply unit supplied

VL-MV72/VL-MV72A

(Wireless monitors NOT supported)

Door Bell or — Main monitor — Up to **3**

Power Source
VL-MV72 : 24V DC Power Supply Unit supplied
VL-MV72A : Power supply unit sold separately

VL-MV26/VL-MV26A

Door Bell or — Monitor

Power Source
VL-MV26 : 24V DC Power Supply Unit supplied
VL-MV26A : Power supply unit sold separately

*1 Either one can be connected. Door bell connect to the option input
*2 Either one can be connected.

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

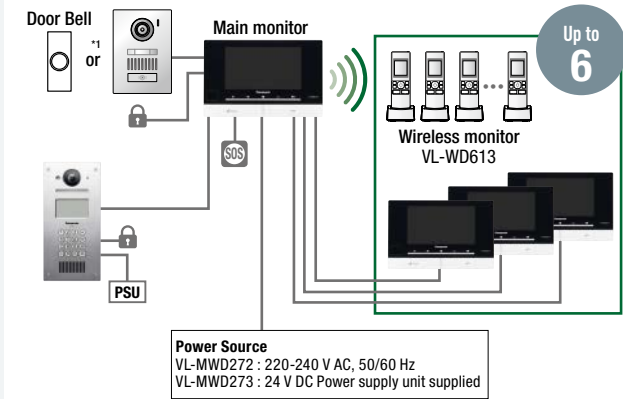| Wiring run	Wire diameter		Wiring run	Wire diameter	
	0.65 mm (22 AWG)	1.2 mm (17 AWG)		0.65 mm (22 AWG)	1.2 mm (17 AWG)
Control Box - (Extension Box) - Lobby Station	100 m	200 m	Control Box - Distribution Box (Repeater Mode)	100 m	200 m
Control Box - The farthest Distribution Box (Standard Mode)	100 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 Sensor or Button (emergency call)
E-Lock

Model number and name	VL-VN1900	VL-VN1500	VL-MN1000
	Lobby Station	Door Station	Room Monitor
Dimensions (Unit: mm)			
Power source	Power supply unit (VL-PS240) 24 V DC, 0.6 A	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240*³) 24 V DC, 0.6 A	PoE (IEEE 802.3af compliant, Class 2 device) or Power supply unit (VL-PS240*³) 24 V DC, 0.6 A
Power consumption	Standby: 3.5 W, Operating: 8.5 W	PoE: Standby: 2.5 W / Operating: 5.1 W VL-PS240: Standby: 2.6 W / Operating: 6.3 W	PoE: Standby: 1.9 W / Operating: 6.3 W VL-PS240: Standby: 2.1 W / Operating: 6.2 W
Dimensions (H x W x D) (Excluding protruding sections)	373 x 179 x 6 mm (excluding sections embedded into the wall)	141 x 100 x 28.5 mm	137.5 x 205 x 27.8 mm
Weight	1.5 kg	250 g	550 g
Operating environment	Ambient temperature: Approx. -10 °C to +55 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: -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 %
Display	3.5-inch colour display (320x240 pixels)	—	7-inch wide colour display with touch screen (800x480 pixels)
Display language	English, Arabic, French, Italian, German, Spanish and Dutch Only user guidance supports multiple language Resident's names are only in English		English, Arabic, French, Italian, German, Spanish and Dutch
Talking method	Hands-free	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 (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)*¹	13.56 MHz (ISO/IEC 14443 Type A (MIFARE))	13.56 MHz (ISO/IEC 14443 Type A (MIFARE))	—
Expanded interface	Support for electric lock releasing (entrance unlocking) x 1	E-lock x 1 *Relay box VL-RLY1 is required (sold separately)	Sensor input x 5 (including emergency / urgency button)
Viewing angle	Horizontally: Approx. 120°, Vertically: Approx. 72° (15° angle adjusting, vertical only)	Horizontally: Approx. 113°, Vertically: Approx. 69°	—
Image sensor	2.0 M pixels CMOS sensor	1.3 M pixels CMOS sensor	—
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	White coloured LED lights	White coloured LED lights	—
SIP server	Embedded SIP server (up to 200 devices)	—	—
Video / Audio format	Video: H.264, Audio: G.711	Video: H.264, Audio: G.711	Video: H.264, Audio: G.711
IP rating / IK rating	IP55*² / Compliant with IK07	IP54*² / —	—
Recording	—	—	Internal memory (video with audio can be saved)
Installation method	Flush mount (flush mounting box supplied)	Surface mount (mounting base supplied)	Surface mount (mounting bracket supplied) or Flush mount (mounting box VL-VN1790 sold separately)
External material	Aluminium	PC+ABS resin	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)	• 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*⁴ • Register up to 18 SIP Phones per monitor*⁵

Model number and name	VL-VN1700	Options	
		VL-PS240	VL-RLY1
	Control Box	Power Supply Unit	Relay Box
Dimensions (Unit: mm)			
Power source	100-240 V AC, 0.95-0.6 A, 50/60 Hz	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	Under 50 W	—	—
Dimensions (H x W x D) (Excluding protruding sections)	88 x 430 x 340 mm	116 x 100 x 54 mm	92 x 78 x 38 mm
Weight	4.5 kg	230 g	130 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	Ambient temperature: Approx. 0 °C to +50 °C Relative humidity (non-condensing): up to 90 % (indoor use only)	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %
Display	—	—	—
Display language	—	—	—
Talking method	—	—	—
Network interface	10BASE-T/100BASE-TX/1000BASE-T (Auto MDI/MDI-X)	—	—
Network protocol	TCP/IP, UDP	—	—
Wiring	UTP (cat.5e or higher)	—	—
Expanded interface	—	—	—
Video / Audio format	—	—	—
Recording	—	—	—
Installation method	Mountable to 19-inch racks	Wall mount or attach to DIN rail	Wall mount or attach to DIN rail
External material	Front Cabinet: ABS, Lower / Upper Cabinet: Steel	Flame retardant PC+ABS resin	Flame retardant ABS resin
Supported functions	• Voice mail • E-mail notification • Supports up to 2000 SIP devices (embedded SIP server)	—	—

*1 10,000 RFID card keys can be registered to each Lobby Station. Each card key must be individually registered / updated ("Issue card", "Lost / Found", and "Delete") to each Lobby Station with which it will be used. There are no batch operations to register / update card keys to multiple Lobby Stations at the same time.
*2 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.
*3 VL-PS240 is sold separately.
*4 System total up to 500 IP cameras. Consult your dealer for more information.
*5 System total up to 50 SIP phones. Consult your dealer for more information.

Model number and name	VL-V901	
	Lobby Station	Power Supply Unit (VL-PS240)
Dimensions (Unit: mm)		
Power source	Power supply unit (VL-PS240) 24 V DC, 0.6 A	Input: 220-240 V AC, 0.2 A (50/60 Hz) Output: 24 V DC, 0.6 A
Power consumption	Standby: Approx. 1.9 W Operating: 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. 110°	—
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	High corrosion resistant stainless steel (SUS316), 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)				
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 Operating: Approx. 3.7 W	Standby: Approx. 1.2 W Operating: Approx. 2.0 W	Standby: Approx. 0.4 W Operating: Approx. 4.4 W	Standby: Approx. 1.5 W Operating: Approx. 1.5 W
Dimensions (H x W x D) (Excluding protruding sections)	108.5 x 210 x 52.5 mm			
Weight	400 g			350 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 • 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.