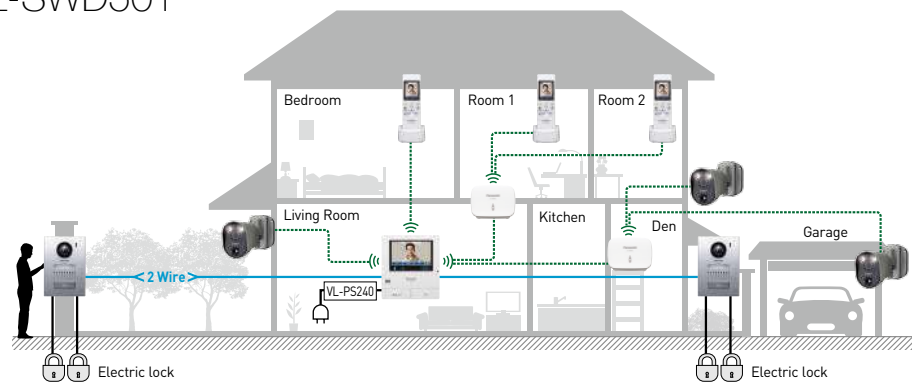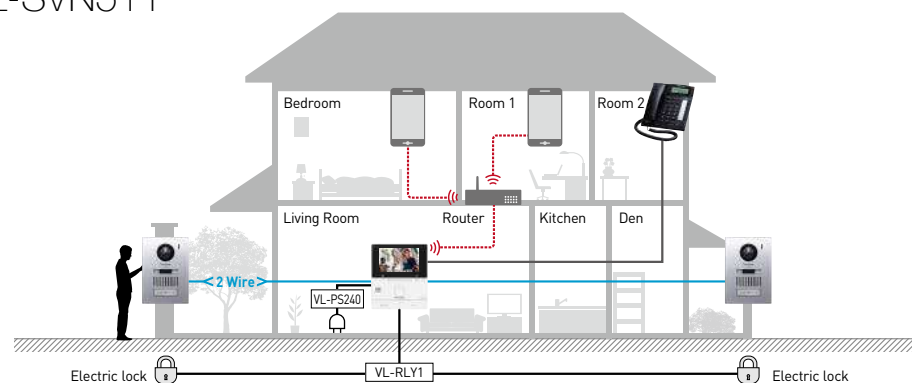## System Configuration Example

Wireless Video Intercom System
VL-SWD501

Bedroom　Room 1　Room 2

Living Room　Kitchen　Den　Garage

< 2 Wire >

VL-PS240

Electric lock　Electric lock

Video Intercom System
VL-SVN511

Bedroom　Room 1　Room 2

Living Room　Router　Kitchen　Den

VL-PS240　< 2 Wire >

Electric lock　VL-RLY1　Electric lock

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	

System Units

Main Monitor Station VL-MVN511	**Door Station** VL-V555 — Up to 2
Mobile Devices — Up to 4	

Panasonic

VL-WD613

Flexible and convenient solutions that work for you.

DISTRIBUTED BY :

Panasonic®

MG-DHPC026EN 1809TD/ZZZ-EX1

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

Stylish Design and Rich Features

Wireless

Wide angle & PTZ

Pic. & SD-card rec

Voice changer

No, thank you!

No, thank you!

User-friendly & multilingual UI
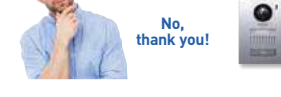
Easy installation (non polar, 2-wire)

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 |

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

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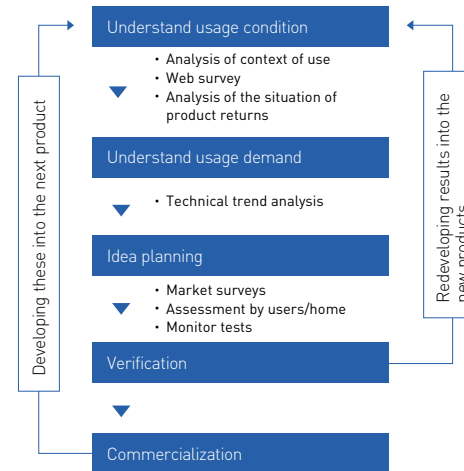
Customer opinions are sought both before and after our products are launched, in an effort to offer the best possible products. Monitor testing is also conducted at the prototype stage. If assessments do not meet expectations, further improvements are made.

High Quality Products

Low failure rates
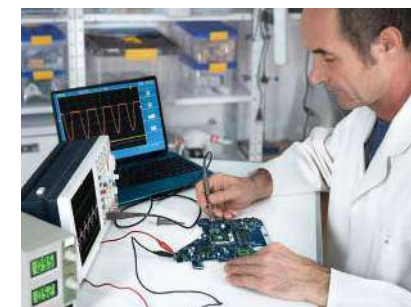
Numerous safety test items

High-reliability tests

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

Smartphone
Connect Series
VL-SVN511

1 x Main Monitor: VL-MVN511
1 x Door Station: VL-V555

Comparison Chart

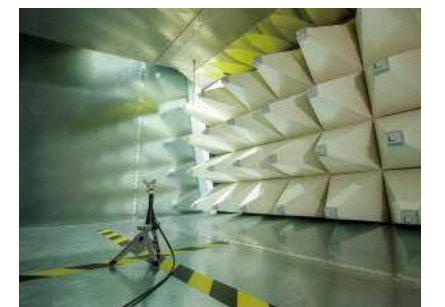| Model Number		VL-SWD501	VL-SVN511
Maximum Connectable Units	Door Station (Doorphone)	2 (Die-Cast Aluminium)	2 (Die-Cast Aluminium)
	Main Monitor	1	1
	Wireless Sub Monitor	6 (DECT)	—
	Smartphone, Tablet	—	● (4)*1
Recording	Video / Picture Recording	●/●	— /●
	SD Card Recording	●	—
Connectable Devices	Sensor Camera	● (4)	—
	Electric Lock Release (Door Opener)	● (4)*2	● (2)
	Repeater	● (2)	—
Others	Night Vision (LED Light)	●	●
	Touch Panel / Pan & Tilt	●/●	— /●
	Wide Angle Camera	● H: 170° V: 115°	● H: 170° V: 130°
	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 3 or 4 E-Locks, 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 VL-MN1000	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	IP VN1500 1.3 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 (VL-SWD501)		VL-PS240	5-inch WVGA colour /Touch Panel	×	O up to 4	● up to 6	O up to 2	●	O(*1)	×	O	×	×
VL-MVN511 (VL-SVN511)		VL-PS240	5-inch WQVGA colour	×	×	smartphone connect model		O	●	×	O	O	×
VL-MV10		Bus-powered type	3.5-inch QVGA colour	×	×	×		×	×	×	O	×	×
VL-MV26		VL-PS240	3.5-inch QVGA colour	×	×	×		×	×	×	×	O	×
VL-MN1000		PoE or VL-PS240(*2)	7-inch WVGA colour /Touch Screen	O up to 5 VL-MN1000	×	×		×	×	O	×	×	O

* 1 The image quality may be lower than that of the Door Station included in the package, but this is not a malfunction.
* 2 Power Supply Unit (VL-PS240) is sold separately.

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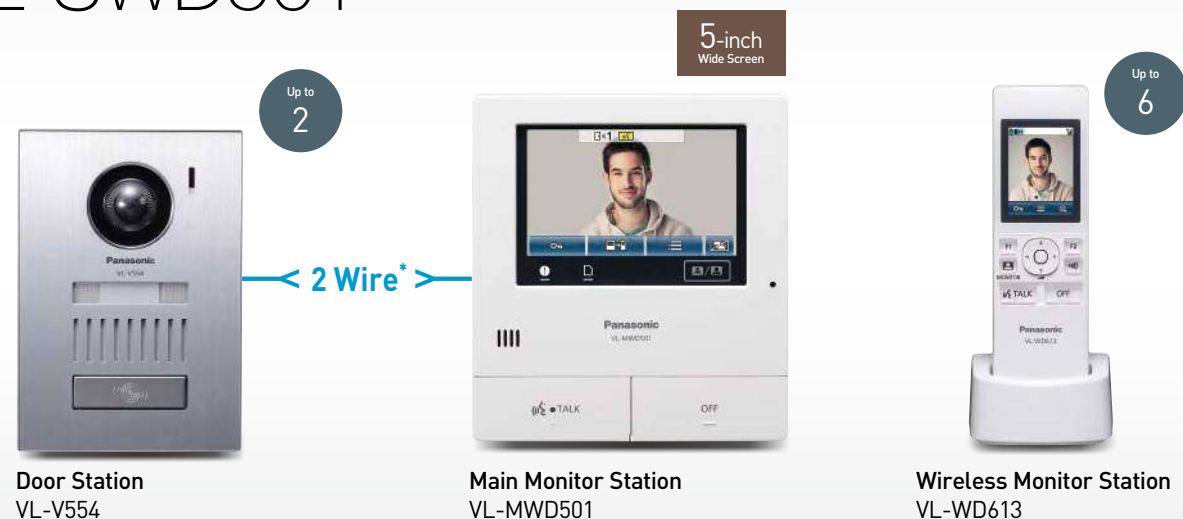
* Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.

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
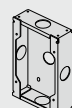- Intercom Call (between main monitor and sub monitor)

Options

Door Station (Doorphone)	Flush Mounting Box	Wireless Monitor Station (Sub Monitor)	Wireless Sensor Camera	DECT Repeater	Related Product
VL-V554 (Surface mount) VL-V554U (Flush mount) CMOS 1.0 M pixels	VL-MB554	VL-WD613	VL-WD812	VL-FKD2	Main Monitor Station (Main Monitor) VL-MWD501
Up to 2		Up to 6	Up to 4	Up to 2	

Smartphone Connect Series

Video Intercom System

VL-SVN511

5-inch Wide Screen

Up to 2

< **2 Wire*** >

Door Station
VL-V555

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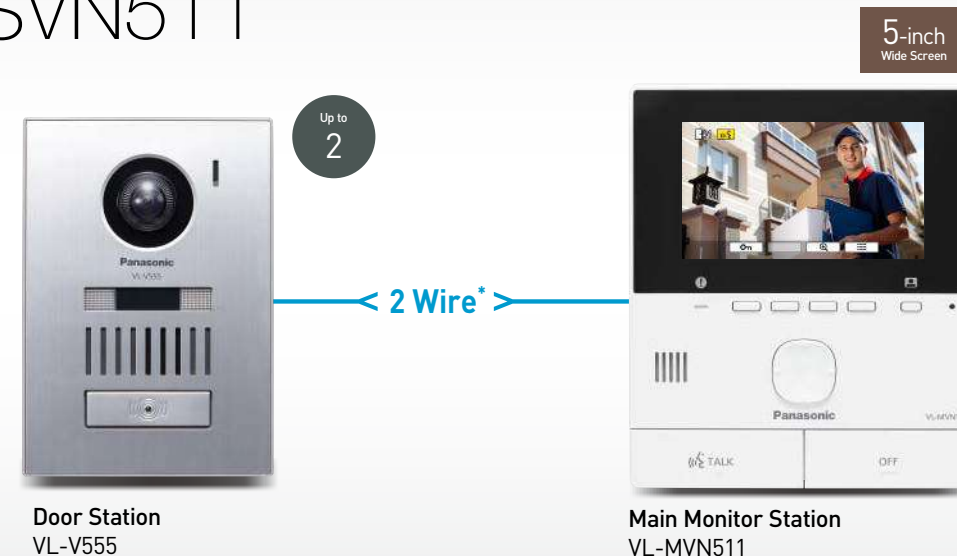
* Easy installation by simply replacing existing doorbell unit Nonpolar 2-wire system.

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
Internet
Up to 4
Mobile devices
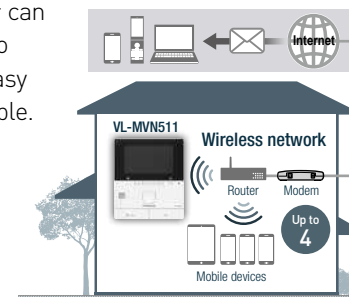
E-mail Notification[*2]

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))
- Wide-Angle Camera (Horizontally:170°, Vertically:130°)
- 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)	Door Station (Doorphone)
VL-V555 (Surface mount) CMOS 0.3 M pixels	VL-V554 (Surface mount) CMOS 1.0 M pixels
Up to 2	Up to 2

*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.

■ 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
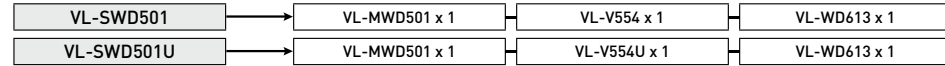
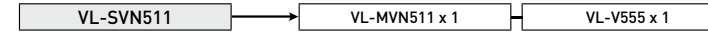|	VL-MWD501	VL-V554 (Surface mount) VL-V554U (Flush mount)	VL-WD613	
Model number and name	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)	
			Main body	Charger
Dimensions (Unit: mm)	165, 21, 180	Up to 2 — 118, 35.8, 30, 169	Up to 6 — 52, 30, 173	81, 76, 43
Power source	Power supply unit (VL-PS240) 24 V DC, 0.5 A (VL-PS240 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, French, German, Spanish, Italian, Dutch (VL-MWD501FX: English, Polish, Romanian, Hungarian)	—	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

	VL-WD812 (For VL-SWD501)		VL-FKD2 (For VL-SWD501)
Model number and name	Wireless Sensor Camera	Power Supply Unit (VL-PS240)	DECT Repeater
Dimensions (Unit: mm)	Up to 4 — 118, 290, 160, 142, 94	100, 54, 116	Up to 2 — 111, 39, 82
Power source	Power supply unit (VL-PS240) 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)	116 x 100 x 54 mm	82 x 111 x 39 mm
Weight	960 g	230 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.
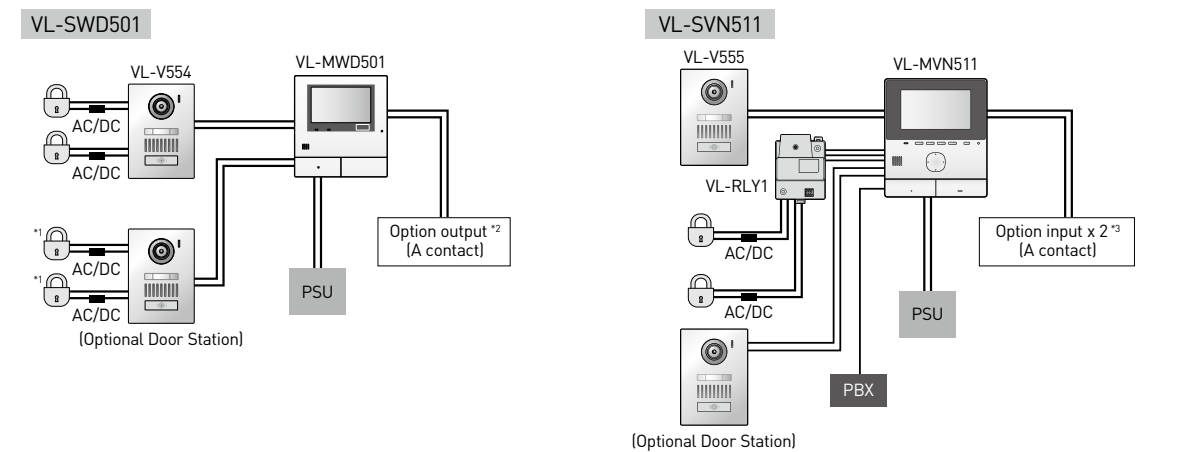

■ Model Composition

VL-SVN511	→	VL-MVN511 x 1	VL-V555 x 1

	VL-MVN511	VL-V555	VL-PS240	VL-RLY1
Model number and name	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Power Supply Unit	Relay Box
Dimensions (Unit: mm)	161, 23.5, 186 (Up to 2)	118, 30, 169	100, 54, 116	78, 38, 92
Power source	Power supply unit (VL-PS240) 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 Operating: Approx. 10 W	—	—	—
Dimensions (H x W x D) (Excluding protruding sections)	186 x 161 x 23.5 mm	169 x 118 x 30 mm	116 x 100 x 54 mm	92 x 78 x 38 mm
Weight	485 g	395 g	230 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, French, German, Spanish, Italian, Dutch (VL-MVN511FX: English, Polish, Romanian, Hungarian)	—	—	—
Talking method	Hands-free	Hands-free	—	—
Wireless transmission method	IEEE 802.11 b/g/n 2.4 GHz	—	—	—
Viewing angle	—	Horizontally: Approx. 170° Vertically: Approx. 130°	—	—
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	—	White coloured LED lights	—	—
IP rating / IK rating	—	IP54[*1] / Compliant with IK07	—	—
Installation method	Wall mount (mounting bracket supplied)	Surface mount (mounting base supplied) or Flush mount (flush mounting box sold separately))	Wall mount or attach to DIN rail	Wall mount or attach to DIN rail
External material	Flame retardant ABS and PS resin	Aluminium and flame retardant resin	Flame retardant PC+ABS resin	Flame retardant ABS resin

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

Comparison of the wiring

VL-SWD501
VL-V554 · VL-MWD501
AC/DC · AC/DC
*1 AC/DC · *1 AC/DC
(Optional Door Station)
Option output *2 (A contact)
PSU

VL-SVN511
VL-V555 · VL-MVN511
VL-RLY1
AC/DC · AC/DC
Option input x 2 *3 (A contact)
PSU
PBX
(Optional Door Station)

*1 When connecting 3 or 4 E-locks, an optional Door Station is required.
*2 Devices that can be connected to the option output: doorbell light, door chime, rotating light, etc.
*3 Option inputs can be used to connect 2 sensors.

: Electric lock
PSU : Power Supply Unit (included with a monitor)

Video Intercom Multi Door System
for Small Size Apartment

Module Lineup

VL-VM101	VL-VM301	VL-VM302	VL-VM303	VL-VM304	VL-VM901	VL-VM902
Camera Module	1-Button Module	2-Button Module	3-Button Module	4-Button Module	Blank Panel	VIGIK® Panel

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-VM801
Extension Cable (1 m, 15 g)

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.

Compact design

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

Specifications

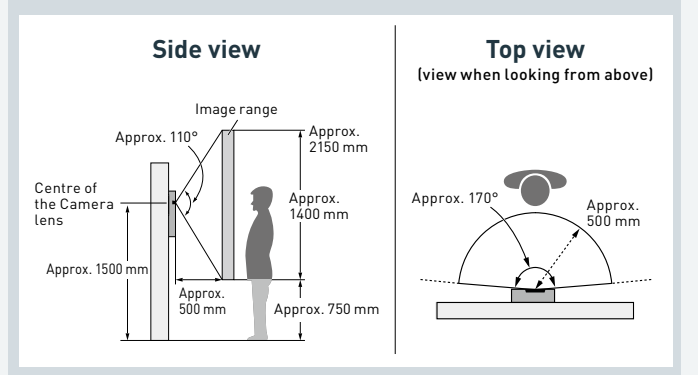| Lobby Station	Flush mount (Small type)	Flush mount (Large type)	Surface mount (Small type)	Surface mount (Large type)
Composition	VL-VM101 x 1pcs. / VL-VM304 x 2pcs. / VL-VM602 x 1pcs. (Small type)	VL-VM101 x 1pcs. / VL-VM304 x 4pcs. / VL-VM603 x 1pcs. (Large type)	VL-VM101 x 1pcs. / VL-VM304 x 2pcs. / 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			
HAC (Hearing Aid Compatibility)	No			

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	VL-VM902 VIGIK® 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	46 x 117.5 x 42 mm[3]
Weight	315 g	120 g	50 g	75 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			Compliant with IP55[*3] / Compliant with IK08[*3]
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	Aluminium (partially ABS)

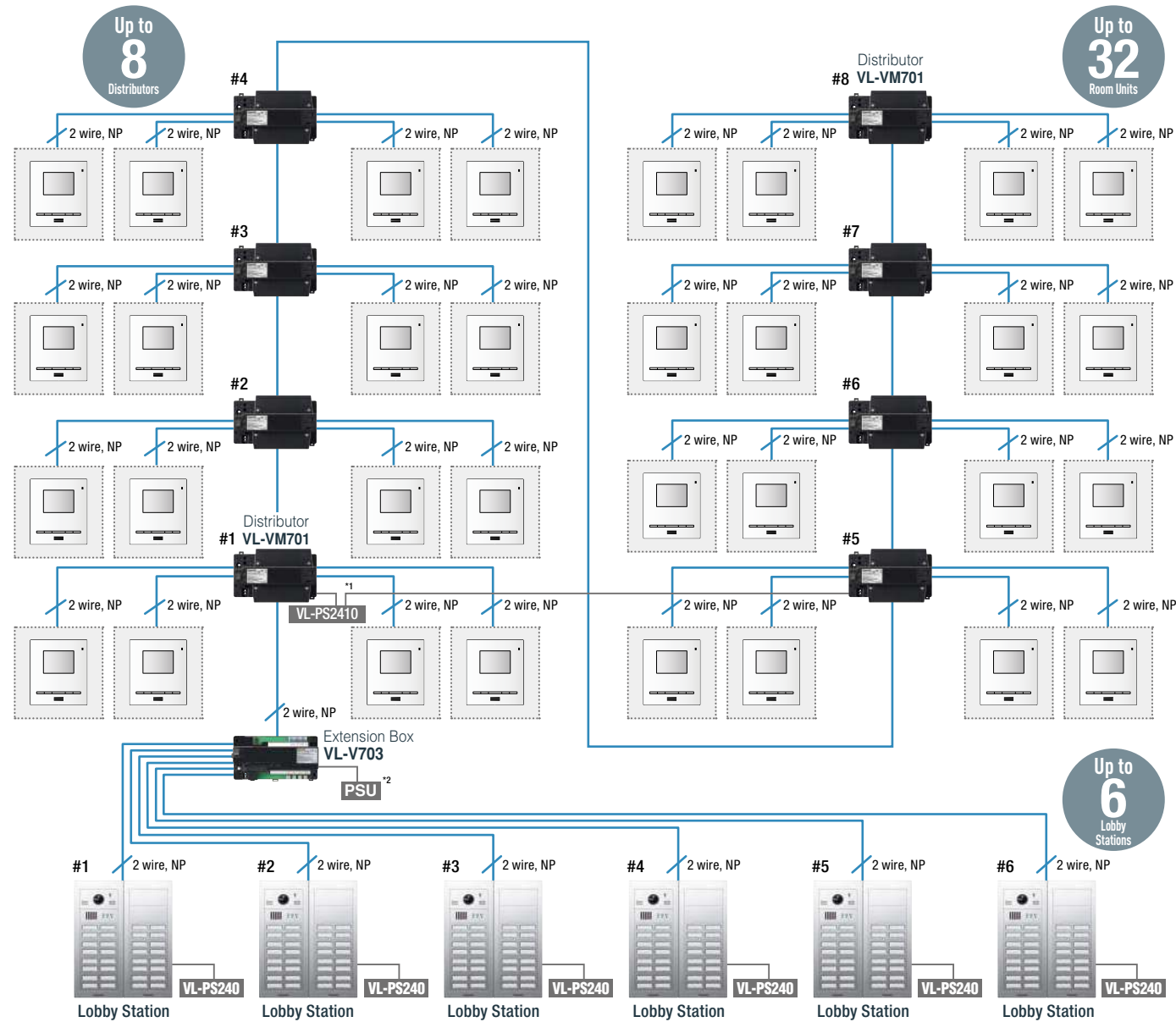| Model number and name	VL-PS240 Power Supply Unit (0.6A type)	VL-PS2410 Power Supply Unit (2.5A type)	VL-VM701 Distributor	VL-V703 Extension Box
Dimensions (H x W x D) (Excluding protruding sections)	116 x 100 x 54 mm	116 x 210 x 58 mm	133 x 210 x 51 mm	108.5 x 210 x 52.5 mm
Power source	Input: 220-240 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
HAC (Hearing Aid Compatibility)	Yes (VL-MV10EX2 only)

Installation Position and Camera Range

Side view

Image range
Approx. 110°
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.
*3 When a VIGIK® module is installed, the rating does not include the VIGIK® module.

Bus Wiring section:

Up to **8** Distributors

Up to **32** Room Units

Up to **6** Lobby Stations

#4, #3, #2, Distributor #1 VL-VM701, VL-PS2410

Distributor #8 VL-VM701, #7, #6, #5

2 wire, NP

Extension Box VL-V703, PSU *2

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

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

NP: Non-Polar
PSU : Power Supply Unit

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)

Star-shaped Wiring section:

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

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

Up to **32** Room Units

2 wire, NP

Lobby Station VL-PS2410

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)

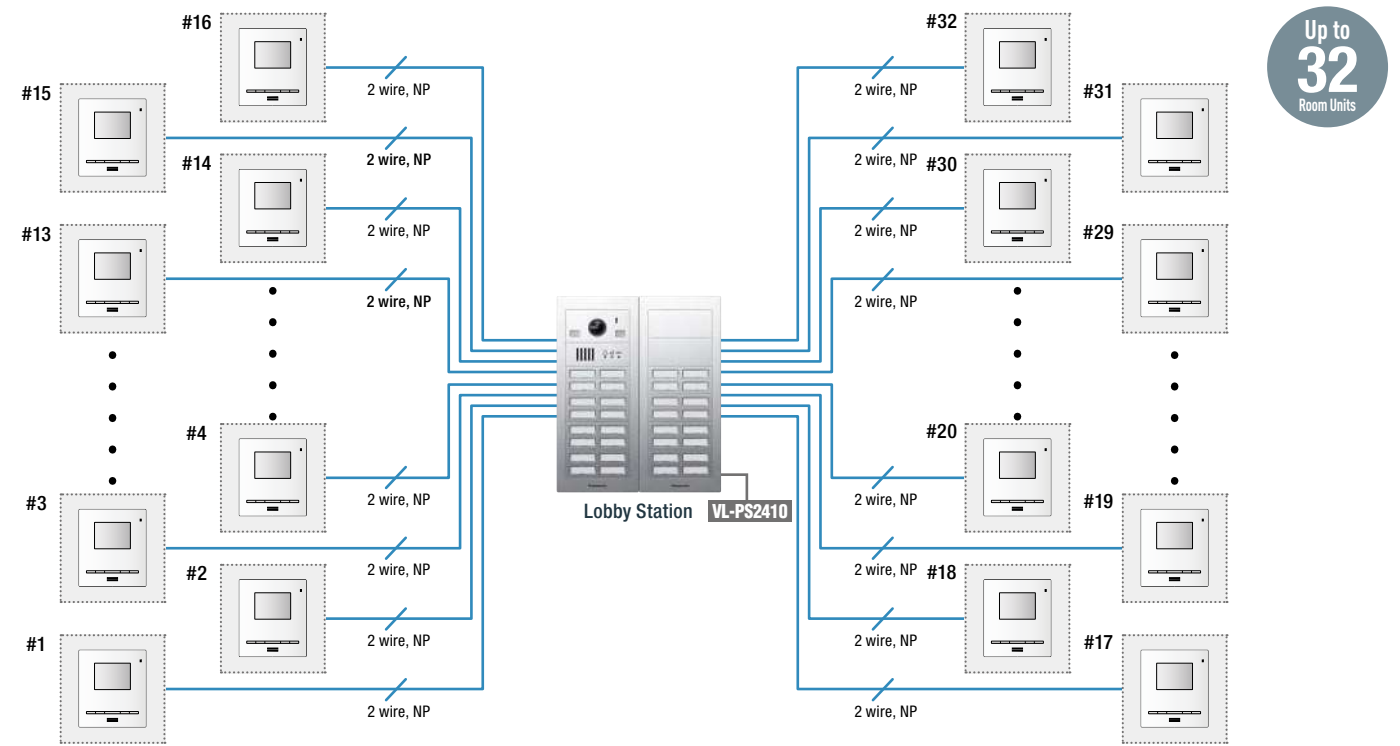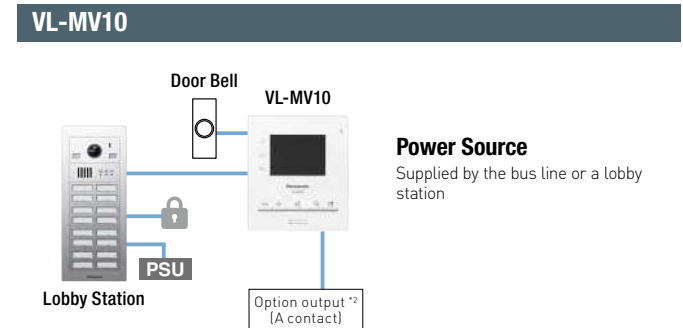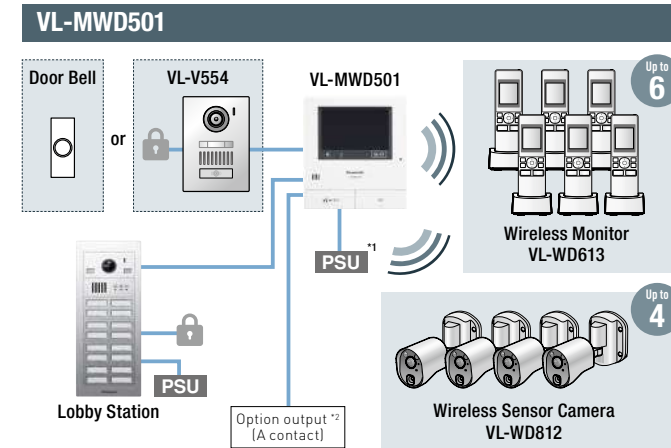**Power Supply Unit Estimate (For Star-shaped Wiring)**
(Unit: pcs.)

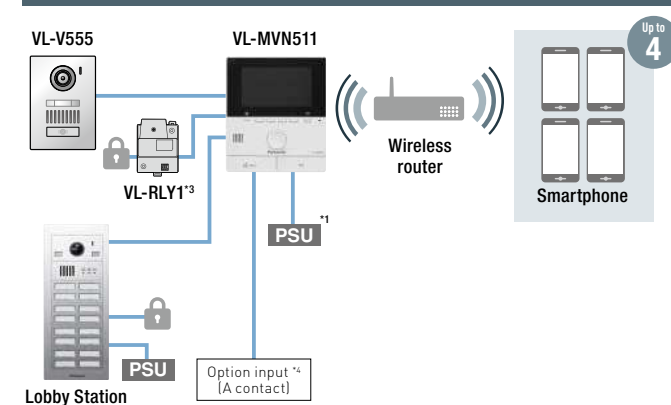|	1~4	5~32
Monitor		
Lobby Station	1	
Power Supply Unit VL-PS240 (0.6A)	1	-
Power Supply Unit VL-PS2410 (2.5A)	-	1

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

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
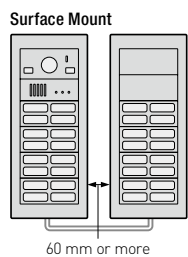
60 mm or more

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.

Monitor Lineup

VL-MWD501

Door Bell — or — VL-V554 — VL-MWD501
Up to **6**
Wireless Monitor VL-WD613
PSU *1
Lobby Station
PSU
Option output *2 (A contact)
Up to **4**
Wireless Sensor Camera VL-WD812

VL-MV10

Door Bell — VL-MV10

Power Source
Supplied by the bus line or a lobby station

Lobby Station
PSU
Option output *2 (A contact)

VL-MVN511

VL-V555 — VL-MVN511 — Wireless router — Up to **4** — Smartphone
VL-RLY1*3
PSU *1
Lobby Station
PSU
Option input *4 (A contact)

PSU : Power Supply Unit

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

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

SIP Phone

Communication

- **Recommended Model-No.***
  - KX-HDV430 (Video and Audio)
  - KX-HDV230 (Audio)
  - KX-HDV130 (Audio)

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

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 (VL-VN1900)

- **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 (VL-MN1000)

- **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 (VL-VN1500)

- **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 (VL-VN1700)

- **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
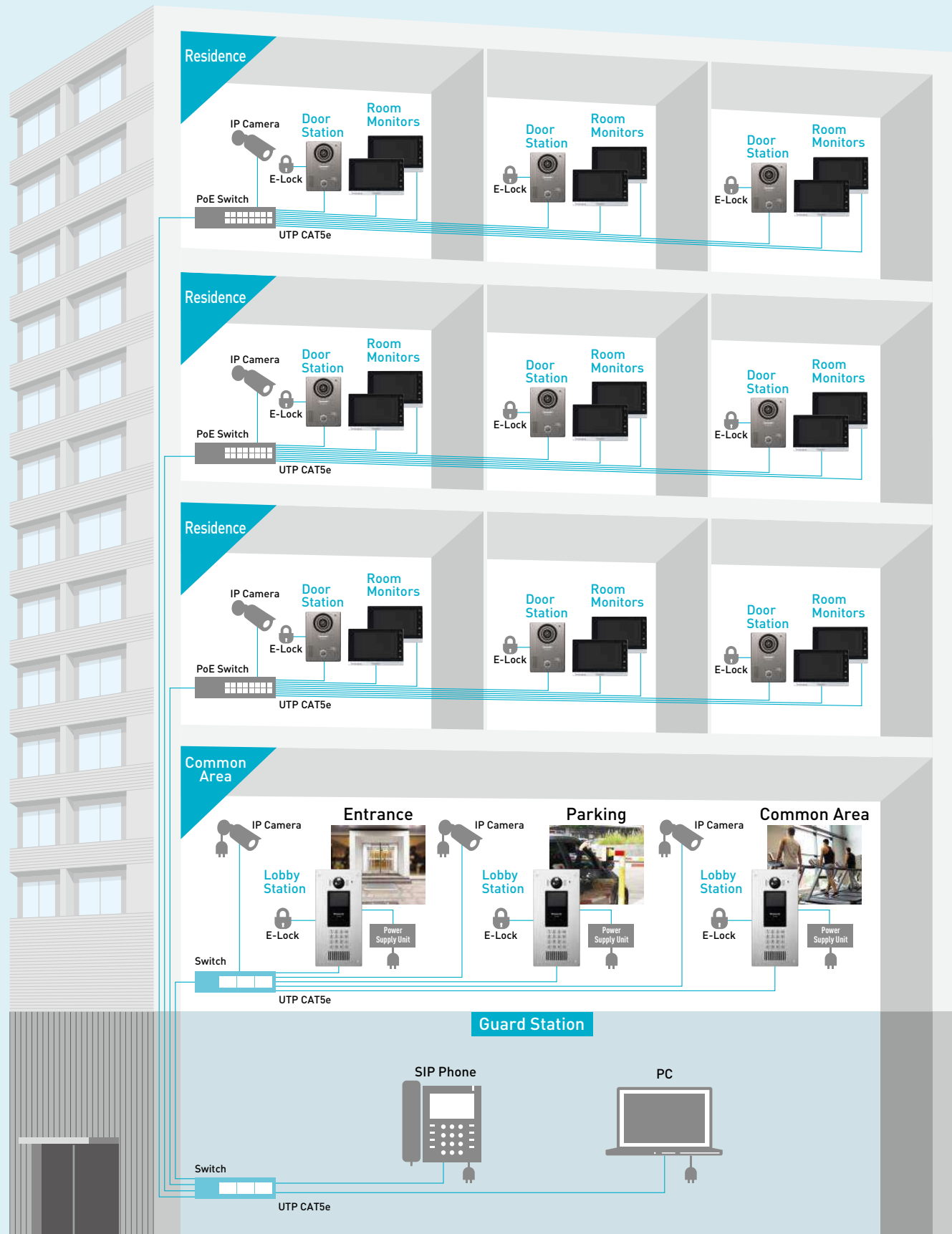 * External mail server and an internet connection are required.

System Diagram of the Apartment System

Support up to 200 devices on a system without a Control Box
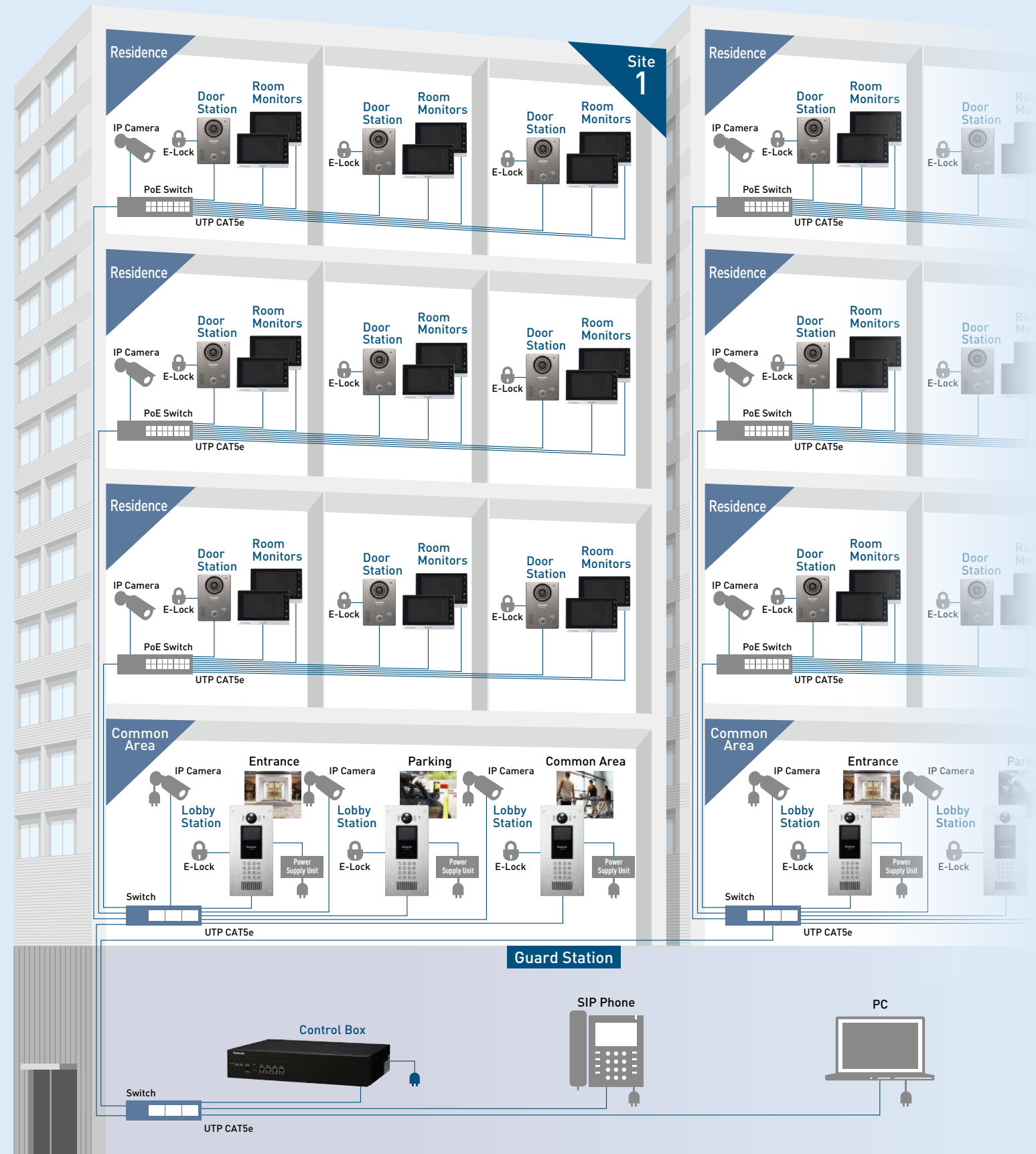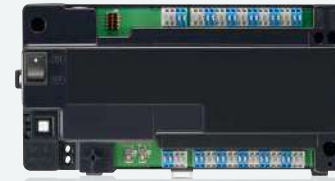
FUNCTION
- 200 SIP devices are supported
- Multiple sessions are supported
- Send text mail from control room to all monitors
- Easy setup by PC tool

Residence

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

Residence

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

Residence

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

Common Area

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

Guard Station

SIP Phone · 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

Residence

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

Residence

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

Common Area

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

Residence

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

Residence

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

Residence

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

Common Area

IP Camera · Entrance · IP Camera · Parking
Lobby Station
E-Lock · Power Supply Unit
Switch
UTP CAT5e

Guard Station

Control Box
SIP Phone · PC
Switch
UTP CAT5e

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

Panasonic

VL-V901

Analogue
Video Intercom System
for Apartment Complexes

Distribution Box
VL-V701

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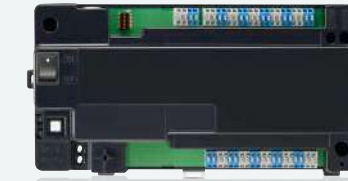The function can be switched with a DIP switch.

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.
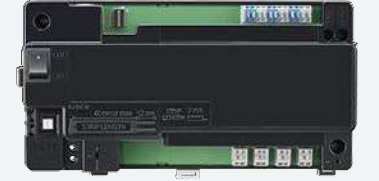
Extension Box
VL-V703

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-V901

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

Features

- Guidance (simple usage for visitors)
- Wide angle camera : Horizontally: approx. 170°
                                   Vertically: approx. 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

Control Box
VL-V700

Device for controlling the entire system

Features

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

Connectable devices

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

Main Monitor Line Up

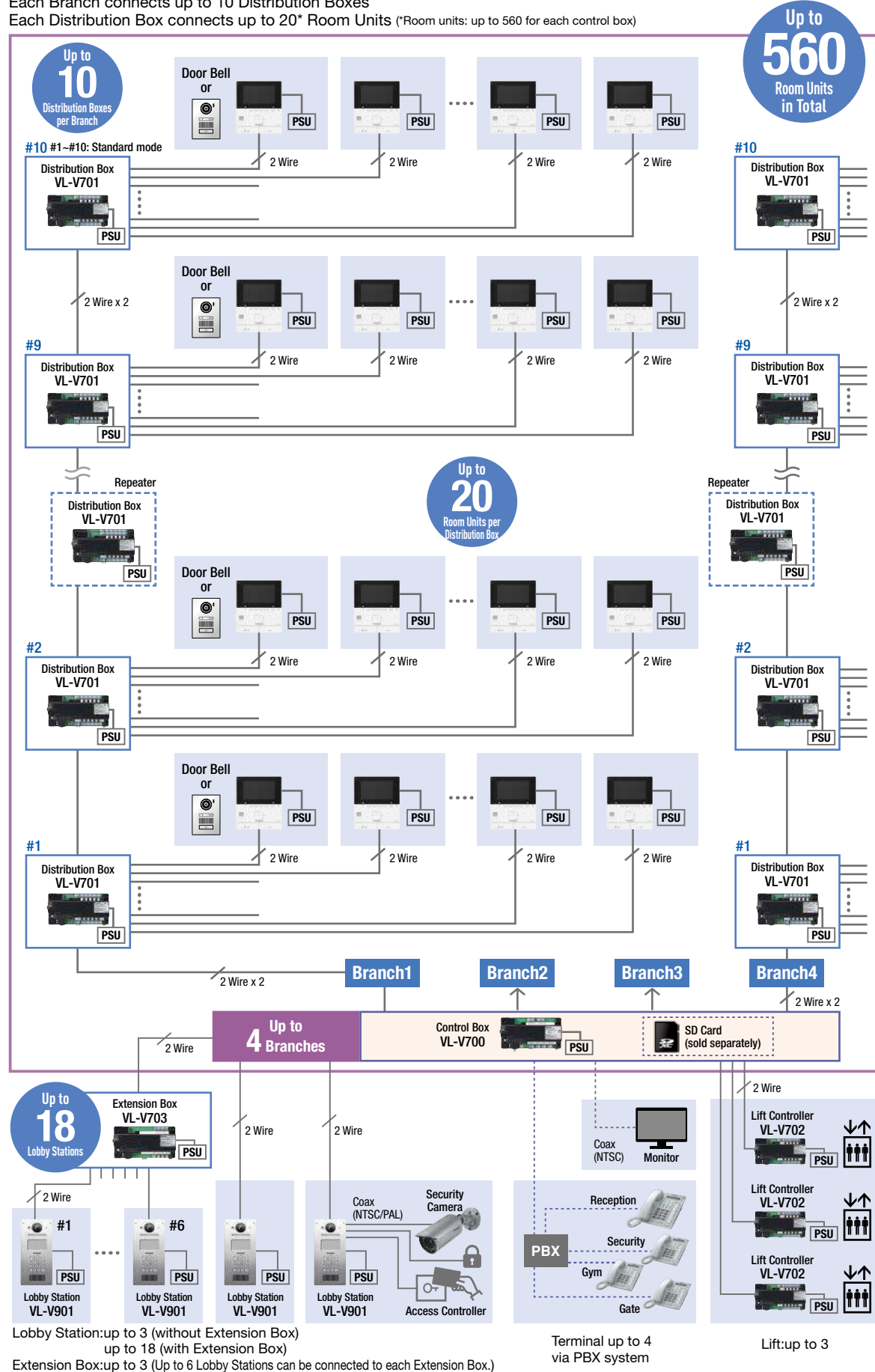|	VL-MVN511	VL-MV26
	VL-PS240 (Power Supply Unit)	VL-PS240 (Power Supply Unit)
Power source	Power supply unit (VL-PS240) 24 V DC, 0.5 A	Power supply unit (VL-PS240) 24 V DC, 0.5 A
Power consumption	Standby: Approx. 1.8 W Operating: Approx. 10.0 W	Standby: Approx. 1.2 W Operating: Approx. 8.0 W
Dimensions (H x W x D) (Excluding protruding sections)	186 x 161 x 23.5 mm	169 x 129 x 29 mm
Weight	485 g	330 g
Operating environment	Ambient temperature: Approx. 0 °C to +40 °C Relative humidity (non-condensing): up to 90 %	
Display	5-inch wide colour / WQVGA (480x272 pixels)	3.5-inch colour / QVGA (320x240 pixels)
Display language	English, French, German, Spanish, Italian, Dutch (VL-MVN511FX: English, Polish, Romanian, Hungarian)	English
Frequency range	IEEE 802.11 b/g/n 2.4 GHz	-
Installation method	Wall mount (mounting bracket supplied)	
External material	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) 1 door bell input	- 1 door bell input
Electric lock release support	Up to 2 (for individual x 1*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 30 images (up to 30 visitors, 1 shot per visitor)
Voice changer	Yes	-
Pan, Tilt, Zoom	Pan, Tilt, Zoom (for VL-V901, VL-V554/V554U, VL-V555)	-
Smartphone connect	Up to 4	-
E-mail notification	Up to 4*2	-
Other functions	• Guard call • Monitor security camera • Emergency call	• Guard call*3 • Monitor security camera • Emergency call*3

*1 The optional VL-RLY1 is required.
*2 The main monitor must be connected to a wireless router that is connected to the Internet in order to use email feature.
*3 Either one can be connected.

Basic System

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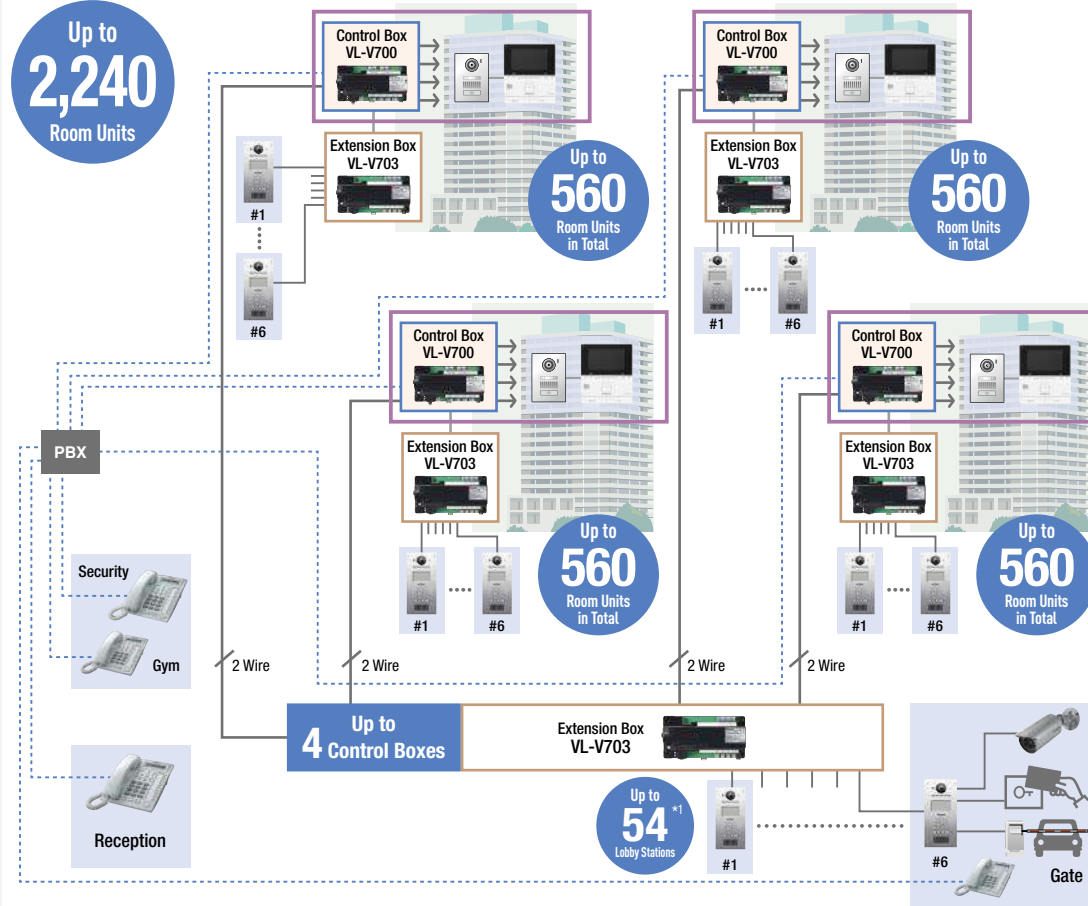Each Distribution Box connects up to 20* Room Units (*Room units: up to 560 for each control box)

Up to **10** Distribution Boxes per Branch

#10 #1~#10: Standard mode

Up to **560** Room Units in Total

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

Door Bell or

Distribution Box VL-V701

#10 #9 #2 #1

Repeater

Distribution Box VL-V701

PSU

2 Wire x 2

2 Wire

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

#1 #6

Lobby Station VL-V901

Coax (NTSC/PAL)

Security Camera

Access Controller

PBX

Reception Security Gym Gate

Terminal up to 4 via PBX system

Coax (NTSC) Monitor

Lift Controller VL-V702

Lift:up to 3

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.)

- 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

PBX

Security Gym Reception

Up to **4** Control Boxes

Extension Box VL-V703

Up to **54** *1 Lobby Stations

#1 #6 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

2 Wire

PBX

Up to **4** Control Boxes

Extension Box VL-V703

Reception Security Gym Gate

#1 #6

Lobby Station VL-V901

Up to **54** *1 Lobby Stations

Up to **2,240** Room Units
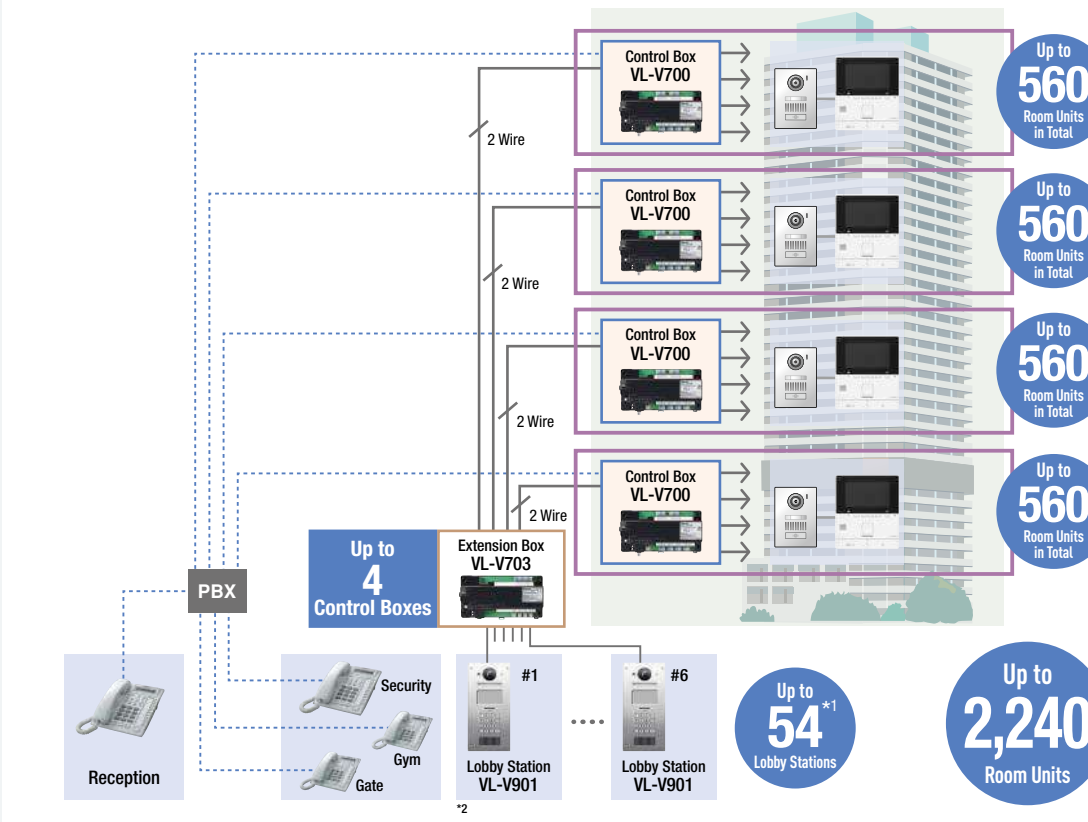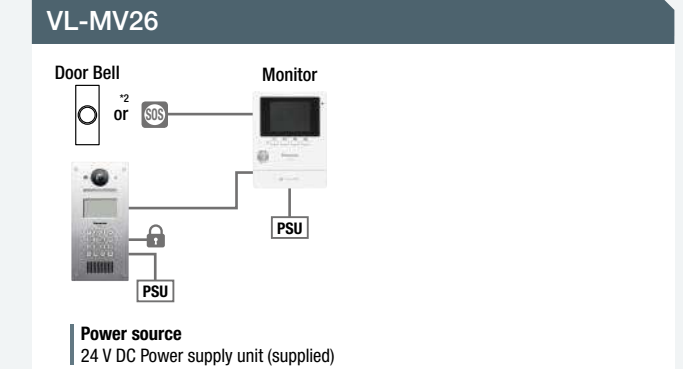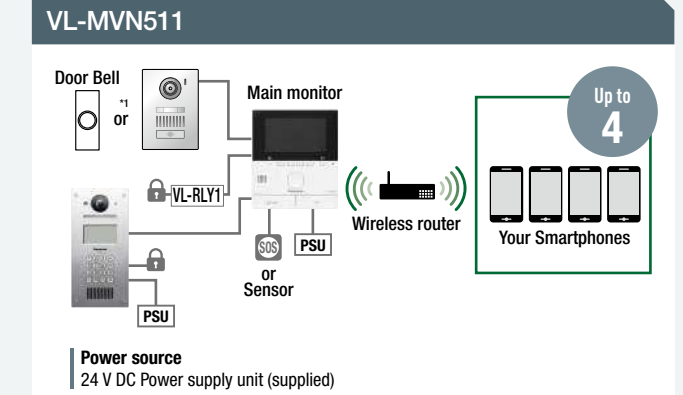
*1 There are usage restrictions when connecting more than 19 Lobby Stations. Consult your certified Panasonic dealer for more information.
*2 When a visitor calls a resident from the Lobby Station on a system with multiple Control Boxes installed in one building, even though there is only one building, the visitor needs to enter the building number before entering the room number.
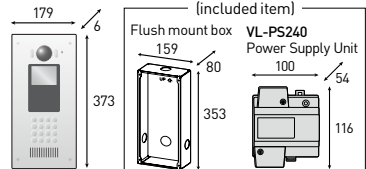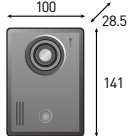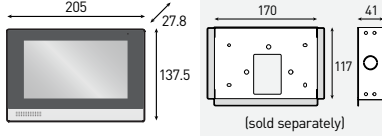
Wiring Distance *Use PE (polyethylene)-insulated cables.

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

Monitor Lineup

VL-MVN511

Door Bell *1 or

Main monitor

VL-RLY1

Wireless router

Up to **4**

Your Smartphones

SOS PSU

or Sensor

Power source
24 V DC Power supply unit (supplied)

VL-MV26

Door Bell *2 or

Monitor

PSU

Power source
24 V DC Power supply unit (supplied)

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

PSU Power Supply Unit (VL-PS240)
SOS Emergency Button
E-Lock

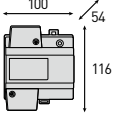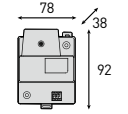| Model number and name	VL-VN1900	VL-VN1500	VL-MN1000
	Lobby Station	Door Station	Room Monitor
Dimensions (Unit: mm)	Flush mount box / VL-PS240 Power Supply Unit — 179, 6, 159, 80, 100, 54, 373, 353, 116	100, 28.5, 141	205, 27.8, 137.5 — VL-VN1790 (Mounting box) 170, 41, 117 (sold separately)
Power source	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: 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 %
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)	430, 88, 340	100, 54, 116	78, 38, 92
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.
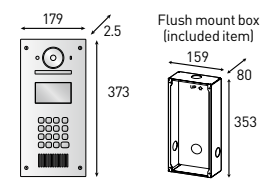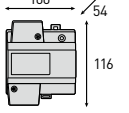*2 Water resistance is only assured if lobby station/the doorphone installed correctly according to the instructions in the Operating Instructions, and appropriate water protection measures are taken.
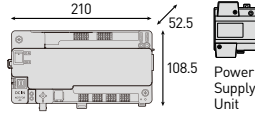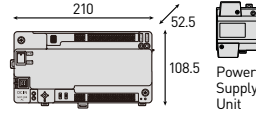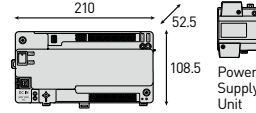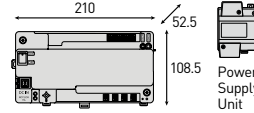*3 VL-PS240 is sold separately.
*4 System total up to 500 IP cameras. Consult your dealer for more information.
*5 System total up to 50 SIP phones. Consult your dealer for more information.

Model number and name	VL-V901	
	Lobby Station	Power Supply Unit (VL-PS240)
Dimensions (Unit: mm)	179, 2.5, Flush mount box (included item), 159, 80, 373, 353	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: 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	High corrosion resistant stainless steel (SUS316), partially ABS and PC	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 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 (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.