Panasonic

Wireless Video Intercom System
VL-SWD501AZ/UAZ
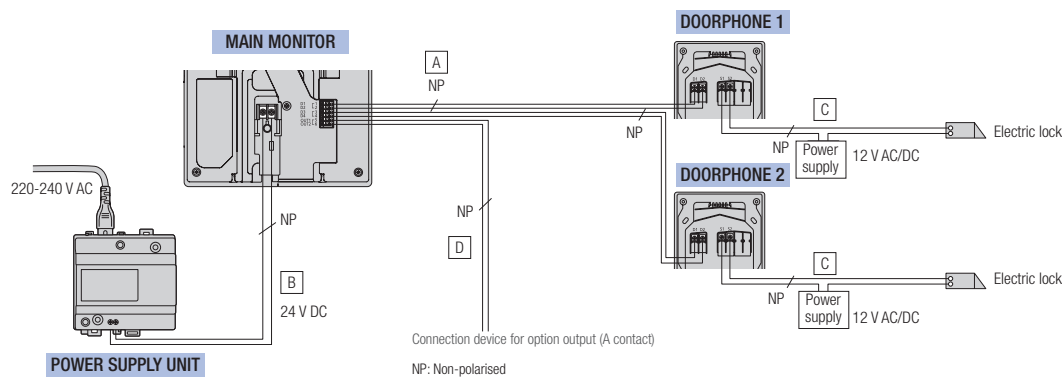

Optional
Wireless Camera

Key Features

- **Wireless Handset:** Check visitors on Wireless Monitor, respond promptly and talk from living room, kitchen, everywhere home and while you are doing something else. UP to 6 wireless monitor connectable. Max wireless range is 100m with no obstacles. You can add on repeaters expand the range. UP to 2 DECT repeater connectable.
- **Large Touch Panel:** The main monitor has a large, 5 inch wide screen that clearly shows each visitor's face. You can simply touch the screen to activate an approximate 2x zoom horizontally and vertically.
- **Electric Lock Release Support for Gate:** The gate or door lock can be easily and quickly released even from the second floor of the house.
- **Wide-Angle Camera:** Wide-angle lens covers approximately 170 degrees horizontally and 115 degrees vertically.
- **SD Card Recording:** Automatically record video images of visitors to SD card. It will record up to 3,000 visitors (30 seconds per visitor). (The SD Memory Card is sold separately.)
- **Wireless Sensor Cameras:** By installing the optional DECT Wireless Sensor Camera, you can use human (heat) and motion sensors to monitor locations that you are concerned about. UP to 4 wireless sensor camera connectable.
- **Night Vision:** Door Station is equipped with LED lights (illumination lamp). It enables the colour display of visitors at a distance of about 50 cm at night.

Wiring Schematic Diagram

220-240 V AC

POWER SUPPLY UNIT

24 V DC

Connection device for option output (A contact)

NP: Non-polarised

Wire type and length

Wiring run		Wire type*1		
		Diameter		Length (Max.)
Main monitor – Doorphone	A	φ 0.65 mm	22 AWG	100 m
		φ 1.0 mm	18 AWG	130 m
		φ 0.5 mm	CAT 5	50 m
Main monitor – Power supply unit	B	φ 0.65 mm	22 AWG	10 m
		φ 1.0 mm	18 AWG	20 m
Doorphone – Electric lock*2	C	φ 0.5 mm - φ 1.2 mm (24 AWG - 17 AWG)		According to specification of connected device.
Main monitor – Connection device for option output (A contact)*2	D	φ 0.5 mm - φ 1.2 mm (24 AWG - 17 AWG)		According to specification of connected device.
Wireless sensor camera – Power supply unit	–	φ 0.65 mm	22 AWG	50 m
		φ 1.0 mm	18 AWG	100 m
Wireless sensor camera – External sensor	–	φ 0.5 mm - φ 0.8mm (24 AWG - 20 AWG)		According to specification of connected device. Must be no longer than 20 m.

*1 Type: Single-pair cable with outer sheath (jacket) Conductor: Copper solid

- A certified power supply wiring has to be used with this equipment. The relevant national installation and/or equipment regulations shall be considered. A certified power supply wiring not lighter than ordinary polyvinyl chloride flexible wiring according to IEC 60227 shall be used.

*2 When using an electric lock or a connection device for option output (A contact), select a device that meets the following guidelines:
- Electric lock connection terminal (S1/S2):
  - N/O dry closure contact
  - 12 V AC/DC, less than 1 A
- Connection device for option output (A contact) terminal (OUT1/OUT2):
  - 24 V AC/DC, less than 0.3 A (minimum contact: 5 V DC 1 mA)

Accessory Information

For the Sub Monitor: AC adaptor × 1 (PNLV226AL), Rechargeable batteries × 2, Charger × 1
For the Door Station: <VL-V554BX> Mounting base × 1 & screw (3.8 mm × 20 mm) × 2, Screw (4 mm × 12 mm) × 4, Name plate × 2, Hex wrench × 1
　　　　　　　　　　　<VL-V554UBX> Flush mounting box × 1, Screw (4 mm × 25 mm) × 4, Name plate × 2, Hex wrench × 1
For the Main Monitor Station: Power supply unit* (VL-PS241) × 1, Mounting bracket × 1, Cable binder × 1, Screw (4 mm x 16 mm) × 2
　　　　　　　　　　*Including AC cable × 1, Cable binder × 1, Screw (4 mm x 40 mm) × 2

Optional Accessories

Door Station (Doorphone)
VL-V554BX
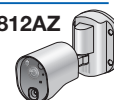**VL-V554UBX**

Door Station (Doorphone)
VL-V522LBX

Wireless Monitor Station (Sub monitor)
VL-WD613AZ

Wireless Sensor Camera
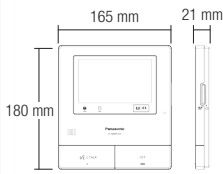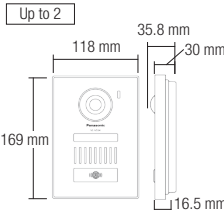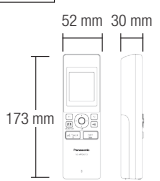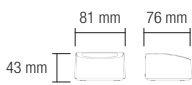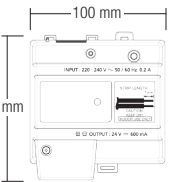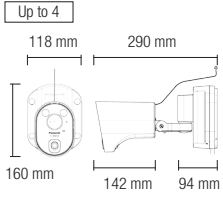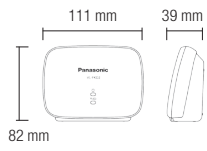**VL-WD812AZ**

DECT Repeater
VL-FKD2AZ

Model Composition

VL-SWD501AZ	VL-MWD501BX x 1, VL-WD613BX x 1, VL-V554BX x 1
VL-SWD501UAZ	VL-MWD501BX x 1, VL-WD613BX x 1, VL-V554UBX x 1

Specifications

	VL-MWD501BX	VL-V554BX (Surface mount) VL-V554UBX (Flush mount)	VL-WD613BX		VL-PS241
Model number and name	Main Monitor Station (Main monitor)	Door Station (Doorphone)	Wireless Monitor Station (Sub monitor)		Power Supply Unit (part)
			Main body	Charger	
Dimensions	165 mm 21 mm 180 mm	Up to 2 118 mm 35.8 mm / 30 mm 169 mm 16.5 mm	Up to 6 52 mm 30 mm 173 mm	81 mm 76 mm 43 mm	100 mm 104 mm *Indoor use only.
Power source	Power supply unit (VL-PS241) 24 V DC, 0.5 A	Power supplied by the main monitor 20 V DC, 0.23 A	Rechargeable Ni-MH (AAA x 2)	AC adaptor (PNLV226AL) Input: 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. 1.4 W During operation: Approx. 10 W	-	-	Standby: Approx. 0.4 W (when the sub monitor is not placed in the charger) During charging: Approx. 1.4 W	-
Dimensions (H x W x D) (Excluding protruding sections)	180 x 165 x 21 mm	VL-V554BX: 169 x 118 x 30 mm VL-V554UBX: 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	104 × 100 × 54 mm
Weight	470 g	VL-V554BX: 405 g, VL-V554UBX: 345 g	160 g (including the batteries)	70 g (excluding the AC adaptor)	215 g
Operating environment	0 °C to 40 °C, Up to 90 % RH (Relative Humidity) non condensing	-10 °C to 50 °C, Up to 90 % RH (Relative Humidity) non condensing	0 °C to 40 °C, Up to 90 % RH (Relative Humidity) non condensing	0 °C to 40 °C, Up to 90 % RH (Relative Humidity) non condensing	0 °C to 40 °C, Up to 90 % RH (Relative Humidity) non condensing
Display	Approx. 5 inch, wide colour display	-	Approx. 2.2 inch, colour display	-	-
Frequency	1.88 GHz to 1.90 GHz	-	1.88 GHz to 1.90 GHz	-	-
Option output (A contact)	Rated load: 24 V AC/DC, 0.3 A or lower Minimum applicable load: 5 V DC, 0.001 A (Output when there is a call from the doorphone)	-	-	-	-
Viewing angle	-	Horizontally: Approx. 170° Vertically: Approx. 115°	-	-	-
Installation method	Wall mount (mounting bracket supplied)	VL-V554BX: surface mount (mounting base supplied) VL-V554UBX: flush mount (flush mounting box supplied)	-	-	-
IP rating / IK rating	-	IP54*3 / Compliant with IK07	-	-	-
External material	Flame retardant ABS and PS resin	Aluminium and flame retardant PC+PS resin	ABS resin	ABS resin	Flame retardant PC+ABS resin

	VL-WD812AZ	VL-FKD2AZ
Model number and name	Wireless Sensor Camera	DECT Repeater
Dimensions	Up to 4 118 mm 290 mm 160 mm 142 mm 94 mm	Up to 2 111 mm 39 mm 82 mm
Power source	Power supply unit (VL-PS241) 24 V DC, 0.4 A	AC adaptor (PQLV219AL) Input: 220-240 V AC, 0.1 A, 50/60 Hz Output: 6.5 V DC, 0.5 A
Power consumption	During standby: Approx. 1.5 W During operation: Approx. 4.5 W (when the LED lights are not lit), Approx. 8 W (when the LED lights are lit)	During standby: Approx. 1.5 W During operation: Approx. 2.3 W (when transmitting)
Dimensions (H x W x D)	160 x 118 x 290 mm (when the camera is front facing and including the wall mount bracket)	82 x 111 x 39 mm
Weight	960 g	88 g (excluding the AC adaptor)
Operating environment	-20 °C to 50 °C, Up to 90 % RH (Relative Humidity) non condensing	0 °C to 40 °C Up to 90 % RH (Relative Humidity) non condensing
Frequency	1.88 GHz to 1.90 GHz	1.88 GHz to 1.90 GHz
Installation method	Wall mount (wall mount bracket supplied)	-
Transmitting range	Approx. 100 m (line-of-sight distance from the main monitor)	Approx. 100 m (line-of-sight distance from the main monitor)
Minimum illuminance required	1 lx*1	-
Image sensor	0.3 M pixel CMOS	-
Lighting method	2 white LED lights*2	-
Angular field of view (camera angle)	Horizontal: Approx. 53° Vertical: Approx. 41°	-
Sensor detection range	• Heat sensor (when the surrounding temperature is approx. 20°) Horizontal: Approx. 63°, vertical: Approx. 20°, detection range: Approx. 5 m • Motion detection sensor Horizontal: Approx. 53°, vertical: Approx. 41°	-
Sensor detection method	Pyroelectric infrared sensor (heat sensor) and motion detection	-
IP rating	IP54*3	-
Adjustable mounting angles	Horizontal: ±90°, vertical: facing forward - facing down approx. 60° (adjustable when mounting)	-
Heat sensor adjustable angles	Manually adjustable to 2 angles	-
External material	PC+ABS resin	PS resin

Installing the Main Monitor

Attach the mounting bracket to the wall securely.
Install the mounting bracket on a vertical flat wall.

Mounting bracket · Vertical, flat wall · Hole in wall · 60 mm · Screws · 50 mm · 7 mm · 83.5 mm

Installing the Doorphone

• VL-V554BX (Surface mount)

Screw × 2 · Mounting base (accessory) · 83.5 mm · Wall · Wire (locally procured)

Install the mounting base on a vertical flat wall.

• VL-V554UBX (Flush mount)

Flush mounting box (accessory) · 100 mm · 151 mm · 37 mm

Installing the Wireless Camera

Mounting screws (locally procured) × 4 · 46 mm · 83.5 mm · DC cable · Cable access hole · Screws (accessory)
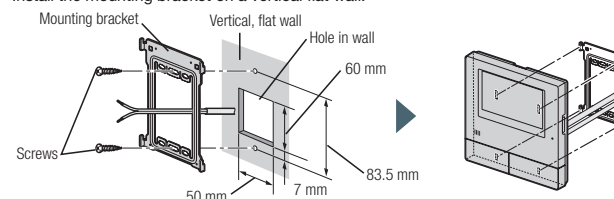
*1 The minimum illuminance required when the camera's [Brightness] setting is set to [+3].
*2 Approx. 8.5 lx when 3 m in front of the camera, and approx. 4 lx when 3 m away and 20° to the left or right of the camera.
*3 Water resistance is only assured if the camera is installed correctly according to 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.

Important
– Safety Precaution: carefully read the operating instructions and installation manual before using this product.
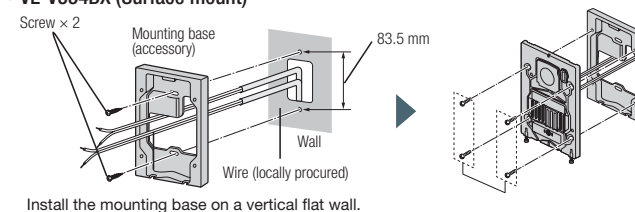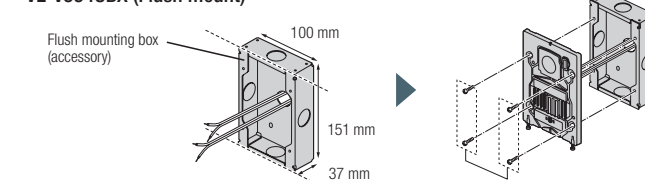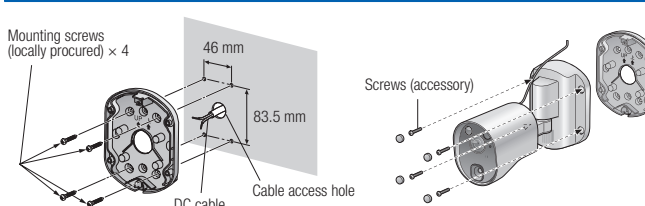
• The actual product may vary slightly from photograph.
• Weights and dimensions are approximate.
• Design and Specifications are subject to change without notice.
• These products may be subject to export control regulations.