System Configuration Example

Wireless Video Intercom System
VL-SWD501

- Bedroom
- Rooms 1, 2
- Living Room
- Kitchen
- Den
- Garage
- Door Station
- Wireless Sensor Camera

System Units
- Main Monitor Station VL-MWD501
- Wireless Monitor Station VL-WD613
- DECT Repeater VL-FKD2
- Door Station VL-V554
- Wireless Sensor Camera VL-WD812

Wireless Video Intercom System
VL-SVN511

- Bedroom
- Rooms 1, 2
- Living Room
- Kitchen
- Den
- Router

System Units
- Main Monitor Station VL-MVN511
- Door Station VL-V555
- Wireless Sensor Camera VL-WD812

Flexible configurations that work for you

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- Android is a trademark of Google Inc.
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- All other trademarks identified herein are the property of their respective owners.

Important
- Safety Precaution: Carefully read the operating instructions and installation manuals before using this product.
- Panasonic cannot be responsible for the performance of the network and/or other manufacturers’ products used on the network.

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MG-SNPC101EN 1705TR122-022
**Summary**

**Single Door Systems 03-07**
- VL-SWD501
- VL-SVN511

**Multi Door Systems 08-15**
- VL-VN1900 IP System
- VL-V990 Analogue System

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**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

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**Comparison Chart**

<table>
<thead>
<tr>
<th>Model Number</th>
<th>VL-SWD501</th>
<th>VL-SVN511</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Connectable Units</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door Station (Doorphone)</td>
<td>2 (Die-Cast Aluminium)</td>
<td>—</td>
</tr>
<tr>
<td>Main Monitor</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Wireless Sub Monitor</td>
<td>6 (DECT)</td>
<td>—</td>
</tr>
<tr>
<td>Smartphone, Tablet</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Recording</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Video / Picture Recording</td>
<td>•/•</td>
<td>—/—</td>
</tr>
<tr>
<td>SD Card Recording</td>
<td>•</td>
<td>—</td>
</tr>
<tr>
<td><strong>Connectable Devices</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sensor Camera</td>
<td>• (4)</td>
<td>—</td>
</tr>
<tr>
<td>Electric Lock Release (Door Opener)</td>
<td>• (4)*1</td>
<td>—</td>
</tr>
<tr>
<td>Repeater</td>
<td>• (2)</td>
<td>—</td>
</tr>
<tr>
<td><strong>Others</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Night Vision (LED Light)</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Touch Panel / Pan &amp; Tilt</td>
<td>•/•</td>
<td>—/—</td>
</tr>
<tr>
<td>Wide Angle Camera</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Intercom Call</td>
<td>•</td>
<td>•</td>
</tr>
<tr>
<td>Voice Changer</td>
<td>•</td>
<td>•</td>
</tr>
</tbody>
</table>

---

*1 The main monitor must be on the same home wireless network as a smartphone/tablet (with the dedicated app installed).
*2 When connecting 2 or 4, an optional Door Station is required.
*3 When connecting 2, an optional Door Station is required.
Stylish Premium DECT Wireless Series

Wireless Video Intercom System
VL-SWD501

Door Station
VL-V554
Main Monitor Station
VL-MWD501
Wireless Monitor Station
VL-WD613

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.

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.

Options

<table>
<thead>
<tr>
<th>Door Station (Surface mount)</th>
<th>Door Station (Flush mount)</th>
<th>Main Monitor Station</th>
<th>Wireless Monitor Station</th>
<th>Wireless Sensor Camera</th>
<th>DECT Repeater</th>
</tr>
</thead>
<tbody>
<tr>
<td>VL-V554</td>
<td>VL-V554U</td>
<td>VL-MVN511</td>
<td>VL-MWD501</td>
<td>VL-WD812</td>
<td>VL-FKD2</td>
</tr>
</tbody>
</table>

2 Wire*

● Easy installation by simply replacing existing doorbell and nonpolar 2-wire system.

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.

Video Intercom System
VL-SVN511

Smartphone Connect Series

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.

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.

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<td>VL-WD812</td>
</tr>
</tbody>
</table>

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.

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)

E-mail Notification*
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/
### VL-SWD501

<table>
<thead>
<tr>
<th>Model number and name</th>
<th>VL-SWD501</th>
<th>VL-MWD501</th>
<th>VL-V554</th>
<th>VL-WD613</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Composition</td>
<td>VL-SWD501U</td>
<td>VL-MWD501 x 1</td>
<td>VL-V554U x 1</td>
<td>VL-WD613 x 1</td>
</tr>
</tbody>
</table>

#### Options

- **Model number and name**: VL-HW0812 (for VL-SWD501)
- **Dimensions**: 43 x 81 x 76 mm
- **Weight**: 116 g

### VL-SWN511

<table>
<thead>
<tr>
<th>Model number and name</th>
<th>VL-WN511</th>
<th>VL-WN511 U 1</th>
<th>VL-V555</th>
<th>VL-ILY1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Composition</td>
<td>VL-SWN511</td>
<td>VL-V555</td>
<td>VL-PS50</td>
<td>VL-ILY1</td>
</tr>
</tbody>
</table>

#### Options

- **Model number and name**: VL-WN511
- **Dimensions**: 61 x 116 x 114 mm
- **Weight**: 416 g

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* 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.
IP Video Intercom System for Apartment Complexes

**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
- Standard PoE is supported
  - Power can be supplied via Ethernet cable (PoE)
  - Power Supply Unit also available (VL-PS240 is sold separately)

**Main Features**

- 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

**Main Features**

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

**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)
  - Unlock the public door by using a PIN code for each residence

**Main Features**

- E-mail notification
  - E-mail notification* enables residents to forward important voice mails to an external mail server via e-mail

**Control Box**

**VL-VN1700**

Up to 2000 devices* are supported. Panasonic SIP Phone is available in the system.

**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

* Requires changing Lobby Station bit rate to 1 Mbps for optimal video quality

For the latest compatible IP cameras and SIP Phones, visit [http://panasonic.net/pcc/support/intercom/](http://panasonic.net/pcc/support/intercom/).
**System Diagram of the Apartment System**

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

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

**Support up to 2,000 devices on a system with a Control Box**

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

**Model number and name**

<table>
<thead>
<tr>
<th>Model number and name</th>
<th>VL-VN1900</th>
<th>VL-VN1600</th>
<th>VL-VN1300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (H x W x D)</td>
<td>170 x 54 x 157 mm</td>
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<tr>
<td>Power consumption</td>
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**Features**

- **Access control**
  - Electric lock
  - Security camera
  - Room number and name registration
  - White coloured LED lights for night colour vision
  - Blue LED backlit buttons
  - Guidance (simple usage for visitors)

- **Functions as a distribution box or repeater.**
  - The main monitor must be connected to a wireless router that is connected to the Internet in order to use email feature.

- **Heat sensor**: The backlight of the display and buttons are turned on when a visitor is detected.

**Other functions**

- **Supported functions**
  - Electric lock release support
  - Monitor security camera
  - Emergency call
  - Extension box
  - Picture recording
  - Voice changer
  - Picture recording

**Connectable devices**

- Security camera
- Electric lock
- Access control

**Distributor Box**

**Role as a repeater box**

A repeater box for amplifying the signal when the control box is extended to 4 extended satellite boxes.

**Division Box**

A division box for connecting the control box with 4 extenders and the main monitor.

**Lobby Station**

**VL-V900**

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

**Control Box**

**VL-V700**

Device for controlling the entire system

**Features**

- Easy setup (room number registration)
- Easy connection check
- Communication 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)

**Connectable devices**

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

**Distribution Box**

**VL-V701**

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

**Role as a distribution box**

A distribution box for connecting the control box with the main monitor of each system.

**Role as a repeater box**

A repeater box for amplifying the signal when the control box and main monitor are far away from each other. Only one can be connected between the control box and distribution box #7.

**Main Monitor Line Up**

**Lobby Station**

**VL-V900**

**Control Box**

**VL-V700**

Device for controlling the entire system

**Features**

- **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.

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**System Diagram of the Apartment System**

**Total System**
- Control Box: 1 unit
- Distribution Box: 28 units
- Room Unit: 560 units

**Entrance**
- Lobby Station (VL-V900)
  - 4 or more Lobby Stations can be installed by adding Extension Boxes.

**Common Area**
- Extension Box (VL-V703)
  - 4 or more Extension Boxes can be connected to one Control Box. Extension Boxes do not operate as repeaters that allow longer distances between the Control Box and Lobby Station.
  - Extension Boxes (VL-V703) connected to Extension Boxes (VL-V700) cannot be linked from the room units or terminals.

**System Diagram with Extension Box**
- Extension Box (VL-V701)
  - 150 m (17 AWG), (NTSC/PAL) (sold separately)
  - (Up to 7) 2 Wire, NP (RPT/END)
  - (Up to 7) USB

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Wiring run</th>
<th>A (340 m)</th>
<th>B (269 m)</th>
<th>C (237 m)</th>
<th>D (205 m)</th>
<th>E (194 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Control Box - Lobby Station</td>
<td>144 m</td>
<td>200 m</td>
<td>300 m</td>
<td>400 m</td>
<td>500 m</td>
</tr>
<tr>
<td>2</td>
<td>Control Box - Distribution Box (Standard Mode)</td>
<td>156 m</td>
<td>240 m</td>
<td>340 m</td>
<td>440 m</td>
<td>540 m</td>
</tr>
<tr>
<td>3</td>
<td>Distribution Box (Standard Mode) - Main Monitor</td>
<td>150 m</td>
<td>200 m</td>
<td>300 m</td>
<td>400 m</td>
<td>500 m</td>
</tr>
<tr>
<td>4</td>
<td>Distribution Box - Repeater Mode</td>
<td>150 m</td>
<td>200 m</td>
<td>300 m</td>
<td>400 m</td>
<td>500 m</td>
</tr>
<tr>
<td>5</td>
<td>Distribution Box (Repeater Mode) - Distribution Box (Standard Mode)</td>
<td>150 m</td>
<td>200 m</td>
<td>300 m</td>
<td>400 m</td>
<td>500 m</td>
</tr>
<tr>
<td>6</td>
<td>Control Box - the farthest Lift Controller</td>
<td>150 m</td>
<td>200 m</td>
<td>300 m</td>
<td>400 m</td>
<td>500 m</td>
</tr>
</tbody>
</table>

**Expandable options**
- Free application for smartphone support (for VL-MVN511)

**Up to 20 wiring runs per distribution box**
- Up to 560 room units (total)
- Up to 20 lifts per floor
- Up to 7 distribution boxes (Performance)
- Up to 5 branches

**Audio**
- Control Box - Lift Controller (17 AWG)
- 2 Wire, NP

**Video**
- Control Box - Lift Controller (17 AWG)
- 2 Wire, NP

**Control Box - Lobby Station**
- 4 or more Lobby Stations can be connected to one Control Box.

**Control Box - Distribution Box**
- Extension Boxes can be connected to one Control Box. Extension Boxes do not operate as repeaters that allow longer distances between the Control Box and Lobby Station.

**Control Box - Lift Controller**
- Lift Controller (17 AWG)
- 2 Wire, NP

**Control Box - Main Monitor**
- Main Monitor (17 AWG)
- 2 Wire, NP

**Supply Unit**
- 2 Wire, NP

**Control Box - Distribution Box (Standard Mode)**
- Distribution Box (Standard Mode) - Main Monitor
- Distribution Box (Standard Mode) - Control Box - the farthest Lift Controller

**Control Box - Distribution Box (Repeater Mode)**
- Distribution Box (Repeater Mode) - Lift Controller
- Distribution Box (Repeater Mode) - Distribution Box (Standard Mode)

**Control Box - Extension Box (VL-V701)**
- Extension Box (VL-V701) - Distribution Box (Standard Mode)
- Extension Box (VL-V701) - Control Box - Lobby Station

**Control Box - Extension Box (VL-V700)**
- Extension Box (VL-V700) - Lift Controller (17 AWG)

**Control Box - Extension Box (VL-V703)**
- Extension Box (VL-V703) - Guard Station
- Extension Box (VL-V703) - Security Control Room (UPS, SD Card)

**Standard Mode**
- Standard Mode

**Repeater Mode**
- Repeater Mode

**Up to 3 lobbies**
- Up to 3 lobbies can be connected to one Control Box.

**Up to 18 branches**
- Up to 18 branches can be connected to one Control Box.

**System Diagram with Extension Box**
- System Diagram with Extension Box

**4 or more Lobby Stations**
- 4 or more Lobby Stations can be installed by adding Extension Boxes.

**4 or more Extension Boxes**
- 4 or more Extension Boxes can be connected to one Control Box.

**Security Control Room**
- Security Control Room

**Lobby Station**
- Lobby Station

**Extension Box**
- Extension Box

**Control Box**
- Control Box

**Distribution Box**
- Distribution Box

**Guard Station**
- Guard Station

**Lift Controller**
- Lift Controller

**Room**
- Room

**Door Station**
- Door Station

**Main Monitor**
- Main Monitor

**Camera**
- Camera

**Access Control**
- Access Control

**Supply Unit**
- Supply Unit

**PBX Line**
- PBX Line

**USB**
- USB

**PC**
- PC

**Lobby Station**
- Lobby Station

**Extension Box**
- Extension Box

**Control Box**
- Control Box