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1.0 Product Range

5480VPC Video Intercom Station, Colour, 18VDC Operation (power supply not included)
5480DSBA Door Station, Black and White Camera, Metal Enclosure, Weatherproof

2.0 Description

The 5480 series intercom systems are designed for stand-alone applications, single private network installations and are ideal for residential and commercial premises.

The video intercom stations are designed to provide a user interface between the visitor and homeowner, and the units feature a door release mechanism for remote door opening.

Multiple intercom stations may be connected to a single door station, or connected together for a handy room-to-room intercom system.
3.0 Equipment Description

Intercom Station


Door Station


3.1 Things to Note

1. When the call button or monitor button is pushed to call up the picture, it takes about five seconds before the camera's auto sensitivity control engages. While the auto sensitivity is working, the picture may not be stable, but will quickly stabilise.
2. This product is designed to be used as an intercom and cannot be continuously used as a monitoring camera.
3. Fluctuations in atmospheric temperature can cause condensation at the door station's lens, resulting in a poor picture at the intercom station. Performance improves after condensation dissipates.
4. If the call is initiated from the door station, both audio and video will timeout after 3 minutes. If the call is initiated from the intercom station, both audio and video will timeout after 50 seconds. Pressing the Call button will reset the video image.
5. When two or more intercom stations are installed, the second or subsequent intercom stations can join in a conversation when the receiver is picked up whilst another intercom station is in use.
6. When a call is received from the door station while calling or talking with another intercom station, a second intercom station can join in the conversation and be heard at the door station.
7. When the ambient light falls below 10Lux, the built-in infrared LEDs automatically turn on to maintain the video picture quality. Because the irradiation range of the infrared LEDs are narrower than the camera's viewing range, the effective range for night operation will be reduced.
3.2 Intercom System Installation

3.2.1 Mounting Position, Intercom Station
The standard height for the intercom station installation is 1450mm (note: this depends on the individual’s height), so the centre of the monitor coincides with the line of vision. The distance between the ground level and the bottom of the intercom station is approximately 1300mm.

3.2.2 Mounting Position, Door Station
The standard height for the door station installation is 1400mm. (note: this depends on the individual’s height), so the centre of the lens coincides with the line of vision. The distance between the ground level and the bottom of the door station is approximately 1300mm. The total field of view of the door station lens is 90 degrees about the horizontal axis. The maximum distance between the caller and door station for a clear image should be less than 800mm.

3.2.3 Adjusting Camera Angles
The camera lens angle on the door station may be adjusted in the vertical and horizontal planes. The vertical angle may be adjusted by approximately +/−12 degrees, by adjusting the screw marked (1) below. The horizontal angle may be adjusted by approximately +/−12 degrees, by adjusting the screw marked (2) below. Adjust the camera angle to suit the installation.
3.2.4 Cable Types and Maximum Distance
1. Use only parallel dual-core cable for optimum picture quality. Connecting with or branching to other types of cable or dividing the parallel dual-core may result in noise on the picture or poor picture quality.
2. The table below illustrates the cable types and maximum distances permitted between the intercom station and door station.

<table>
<thead>
<tr>
<th>Application</th>
<th>Wire</th>
<th>Conductor Cross Section Area</th>
<th>Maximum Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door Lock Release</td>
<td>2 x 0.5</td>
<td>0.5mm²</td>
<td>50m</td>
</tr>
<tr>
<td>Interconnection between Door Station to Intercom Stations</td>
<td>4 x 0.5</td>
<td>0.5mm²</td>
<td>50m</td>
</tr>
<tr>
<td>Interconnection between Intercom Stations</td>
<td>4 x 0.5</td>
<td>0.5mm²</td>
<td>50m</td>
</tr>
</tbody>
</table>

3.2.5 Wiring Details
The figure below illustrates the wiring connection between a single door station and single intercom station.

The figure below illustrates the wiring connection between a single door station and multiple intercom stations (up to 4 intercom stations are allowed).
3.2.6 Installing the Intercom Station
Select a location for the intercom station, with reference to section 3.2.1. Install a British Standard (60.3mm) or Australian/US Standard (84mm) wall box.

Attach the mounting plate to the wall box, with the screws provided.

Attach cables and plug-pack to the intercom station, and secure to the bracket.

3.2.7 Installing the Door Station
Select a location for the door station, with reference to section 3.2.2. Make a hole in the wall measuring 190mm (H) x 120mm (W) x 38mm (D).

Insert the wall box provided.

Attach cables to the door station, and secure to the wall box using the screws provided. Insert the top and bottom covers over the fixing screws.
### 3.3 Additional Information

Please confirm the following before requesting service.

When neither calling out nor conversation are possible:
- Is the main plug of the monitor unit properly connected?
- Are the wires of the monitor units and the camera unit connected to their terminals?
- Has the unit timed out after 3 minutes?

When the picture is not clear:
- Are brightness, colour, tone and hue for the monitor unit properly adjusted?
- Is the camera front and monitor surface clean?
- Condensation at the camera unit’s lens causes a poor picture at the monitor unit. Performance improves after condensation dissipates.

### Cleaning the Equipment

Clean the main unit with a soft dry cloth. For cases where dirt is hard to remove, use mild detergent and wipe away. Do not use strong abrasive chemicals as this will dull the transparent resin on the monitor screen.

### 4.0 Product Specification

<table>
<thead>
<tr>
<th>Catalogue No.</th>
<th>5480VPC</th>
<th>5480VPB</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LCD Screen Size</strong></td>
<td>100mm (4”) Colour TFT LCD</td>
<td>100mm (4”) B/W Flat Tube</td>
</tr>
<tr>
<td><strong>Picture Distortion</strong></td>
<td>&lt; 5%</td>
<td></td>
</tr>
<tr>
<td><strong>Signal to Noise Ratio</strong></td>
<td>More than 70dB</td>
<td></td>
</tr>
<tr>
<td><strong>Number of Pixels</strong></td>
<td>105,600</td>
<td></td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>Standby 0.2W, Maximum 9W</td>
<td></td>
</tr>
<tr>
<td><strong>Power Requirement</strong></td>
<td>DC 18V @ 800mA</td>
<td></td>
</tr>
<tr>
<td><strong>Call Signal</strong></td>
<td>Electronic chime</td>
<td></td>
</tr>
<tr>
<td><strong>Installation Location</strong></td>
<td>For indoor use only (hanging type)</td>
<td></td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td>ABS Plastic, White Electric</td>
<td></td>
</tr>
<tr>
<td><strong>Horizontal Resolution</strong></td>
<td>420 Lines</td>
<td>420 Lines</td>
</tr>
<tr>
<td><strong>External Dimensions</strong></td>
<td>225 x 200 x 68mm</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Number of Intercom Stations</strong></td>
<td>4</td>
<td></td>
</tr>
<tr>
<td><strong>Time Out Period</strong></td>
<td>3 minutes or 50 seconds (refer to item 4 in section 3.1)</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 to +40°C</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>45 – 85% RH</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Catalogue No.</th>
<th>5480DSCA</th>
<th>5480DSBA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Horizontal Resolution</strong></td>
<td>450 Lines</td>
<td></td>
</tr>
<tr>
<td><strong>Imaging Device</strong></td>
<td>1/3” CCD</td>
<td></td>
</tr>
<tr>
<td><strong>Minimum Illumination</strong></td>
<td>0.2 Lux</td>
<td></td>
</tr>
<tr>
<td><strong>Materials</strong></td>
<td>Extruded aluminum metal enclosure, silver</td>
<td></td>
</tr>
<tr>
<td><strong>External Dimensions</strong></td>
<td>193 x 130 x 54mm</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-10 to +40°C</td>
<td></td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>45 – 85% RH</td>
<td></td>
</tr>
<tr>
<td><strong>Installation Location</strong></td>
<td>For indoor and outdoor use (rain resistant), it is recommended that the equipment is installed in a weather protected environment for long service life.</td>
<td></td>
</tr>
</tbody>
</table>
5.0 Caution

1. Do not install the door station unit at a location where it will be exposed to direct sunlight. If the camera is exposed to direct sunlight, a white picture will be displayed at the monitor.

2. To prevent damage to the equipment, malfunction, noise interruption, or poor picture quality due to induced voltage from lightning, or the electrical lines of other equipment, avoid outside overhead wiring as well as parallel wiring with electrical power lines or other electrical lines for telephones and other devices.

3. Do not attempt to modify this equipment. It is possible for high voltage to remain inside the electrical circuits even when power is turned off.

4. Be sure to connect the power to an appropriate outlet for home use. Connecting to an inappropriate outlet or an inverter type outlet may cause damage to the equipment, noise interruption, or noise in the picture.

5. Do not install the monitor unit at the following:
   - Directly above or near a heater, such as an electric, gas or oil heater.
   - Any location where it might be exposed to direct sunlight.
   - A location which is high in humidity, such as a bathroom.
   - A location where harmful gas or excessive dust is present.
   - A location where the unit may be exposed to moisture or chemical.

6. Although the door station is rain resistant, do not expose it directly to water.
   - For example, water from a garden hose, etc.

7. This product is not compatible with intercom units and door station units from other manufacturers. Connecting this equipment to other manufacturers’ equipment may cause damage to both units.

6.0 Warranty

1. This product is guaranteed against faulty workmanship and materials for a period of one (1) year from date of installation.

2. Clipsal reserves the right, at its discretion, to either repair free of parts and labour charges, replace or offer refund in respect to any article found to be faulty due to materials, parts or workmanship.

3. This warranty is expressly subject to the device being installed, wired, tested, operated and used in accordance with the manufacturer’s instructions.

4. All costs of the claim shall be met by Clipsal, however should the product that is subject to the claim be found to be in good working order all such costs shall be met by the claimant.

5. When making a claim the consumer shall forward the product to the place of purchase, together with adequate particulars of the defect within twenty eight (28) days of the fault.

7.0 Technical Support and Troubleshooting

For further technical assistance in using Clipsal Security products, please consult your nearest Clipsal Sales Representative or Technical Support Officer.

Technical Support Hotline 1300 722 247 (Australia only)
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