

VIDEO INTERCOM SYSTEM

1. General:

- 1.1. The contractor shall supply, install, test and commission a modern Electronic Open Voice Video Entry Phone System of an approved manufacturer and design to facilitate audio-visual communication between the different apartments of the building and main entrance.

The contractor shall submit a complete proposal with schematic drawings, list of materials and original detailed catalogues of the equipment for consultant/client approval before starting the work.

The video entry phone system shall be suitable for visual monitoring of the main entrance lobby and half duplex voice communication between the different apartments and the main panel.

1.2. Submittals

The contractor shall submit to the Consultant 4 Copies of Descriptive Literature, Technical Data, Catalogues, Installation Instructions and Maintenance recommendation of all the Products used.

The Contractor shall provide detailed Shop Drawings for the review/approval by the Consultant which include the Schematic Diagram of the VI Distribution Network indicating all the System components including Splitters, Power Supplies, Cables etc.

1.3. Codes & Standards

All the equipment and components shall be in accordance with CE Standards and they shall bear the EU Directives (89/336/EEC) label on them.

2. System's equipment:

The system shall consist of, but not necessarily be limited to the following:

- 2.1. Video intercom entrance panel shall have sufficient number of push buttons to initiate calls to various apartments.
- 2.2. The panel shall have incorporated Colour CCD camera with speech unit.
- 2.3. 4" LCD Colour Display monitor unit in each apartment.
- 2.4. Sufficient power supply units, signal distribution boxes, video cables and all necessary accessories.

3. Equipment's specifications:

3.1. Entrance panel:

- 3.1.1** Entrance Panel shall be wall-mounted in extruded aluminium with a special paint finish, chosen for its resistance to atmospheric agents and copolymers with optimal technical properties in extruded aluminium with a special paint finish, chosen for its resistance to atmospheric agents and copolymers with optimal technical properties.
- 3.1.2** The panel extension modules shall be paint-finished aluminium and copolymer.
- 3.1.3** Each panel modules shall have illuminated key-buttons with name tags for calling each apartments.
- 3.1.4** Panel shall have beep sound to confirm call.

3.2. Video Camera:

Built-in 1/4" Colour CCD (Charge Coupled Device) Camera with the following characteristics:

- Standard CCIR 625 lines, 50 half field/sec, 1 Vpp on 75 Ohm coaxial cable
- 3mm Lens
- With infrared LED at maximum distance of 50 cm
- Supply : 12V DC
- The lens shall be adjusted vertically, manually
- Horizontal Frequency : 15625 Hz
- Vertical Frequency : 50Hz
- Definition of image center: 330 horizontal lines, 400 vertical lines.
- Automatic Linear brightness control.
- Operating Temperature -10° C. to +50° C.

3.3. Monitors:

3.3.01. Flush mounted type in Slim-profile thermoplastic housing.

3.3.02. Two-Channel open voice System.

3.3.03. Tilt adjustable for optimum positioning of the image at all times.

3.3.04. Monitor shall have 4" LCD Colour Display.

3.3.05. Monitors shall be provided with the following:

- Front-mounted controls for Brightness, Ringtone Volume, Ringtone Type & Audio Volume.
- 4 Push-Buttons for the Door Lock release, Listen and two auxiliary functions.
- Loudspeaker for Electronic Call-Tones.
- Seperate LEDs to indicate Door Open function and Ringtone Disabled.

3.4 Power supply units:

3.4.1 Basic power supply units 60VA, 15W, shall be in ABS case.

3.4.2 Power supply units shall operate on 240 V, 50Hz with low-voltage output for feeding the monitors along with the camera and video-signal Distributors.

3.4.3 All outputs shall be stabilized and protected against short-circuits with PTC against short circuits and temperature variations

3.4.4 Call inhibiting circuit when system is in use.

3.4.5 Timed lock-release control, and automatic disconnection device of monitor previously activated.

3.5. Cables:

Multi-conductor video cable shall be used for wiring the system. The cable shall consist of the following on the minimum:

- 75 Ohm shielded coaxial cable of 3 mm diameter
- 3 coloured conductors of 1mm² cross section area
- 7 coloured conductors of 0.5mm² cross section area
- PVC protection gray jacket.

4. Installation:

- 4.1.** Video signal splitter with minimum dB Loss shall be provided in each floor located in the Electrical Room from which separate video cable should run to each monitor unit.
- 4.2.** The location of the camera entrance panel shall be so selected at the main lobby/entrance of the Building that there is no direct sunlight falling on the camera sensor during any time of the day.
- 4.3.** All connections and terminations in floor electrical room junctions shall be firmly secured using properly sized electrical connectors and cable ties.
- 4.4.** The system installed by the contractor shall be warranted for a period one year from date of commissioning the system.

Bill of materials:

No.	Description	Unit	Qty	Rate	Total
	<u>Video Intercom System :</u>				
	Supply, installation & commissioning of video Open Voice intercom system for the buildings as per the enclosed specification				
1.	Camera entrance panel with incorporated Colour CCD camera and speech unit as specified.	No.	01		
2.	Flush-mounted electronic video intercom monitor with 4" LCD Colour Display as specified.	Nos.			
3.	Power supply units as required for the system.	Nos.			
4.	Video signal splitters with suitable number of connections in floor electrical rooms	Nos.			
5.	Video cable with 10 conductors and coaxial cable as specified.	Lot			
6.	Supply, installation and commissioning of the above system as specified with all necessary accessories.	Lot			