



iCentral 10.2 Premium Video Intercom System

Installation & Operation Manual

REV2



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Features

DOOR STATION

- Zinc Alloy, surface mount
- 1/4 inch colour CCD camera
- Resolution: 420TV Lines
- Waterproof Vandal Resistant alloy housing
- Built-in automatic 3 x LED lighting for night vision / Minimum illumination 1.0 lux
- 68 degree wide angle field of view
- Compatible with Four Plus & 10.2 intercom systems
- Part No. 100-958

ROOM STATION

- Slimline surface mounted Monitor/Room Station
- 10 inch colour LCD display
- Touch sensitive glass buttons
- Supports up to two video Door Stations and up to two video Room Stations
- Make intercom calls between two Room Stations
- Transfer door calls between Room Stations
- Monitor up to two optional CCTV cameras or other audio/video inputs
- Do Not Disturb function
- Electric door lock release from Room Stations
- Adjustable Colour/Contrast/Brightness/Ring Volume
- Choice of 12 door bell chimes
- Master/Slave selectable
- Part No. 100-974

Specifications

Room Station Display Screen	10.2" TFT
Horizontal Resolution	420TVL
Input Voltage	13.8VDC
Video Channel Qty.	4
Room Stations Supported Qty	2
Power Consumption	1.5W ~ 16W
Wiring Requirements	4 core screened cable + RG59 coax*
Operating Temperature	-10°C ~ 50°C
Room Station Dimensions (W x H x D)	334 x 210 x 25mm
Door Station Dimensions (W x H x D)	98 x 173 x 25mm

In some installations the 100-958 Video Door Station may have audio feedback when used with a weathershield. A simple modification to the microphone gain is available - please ask when ordering.

Cable Specifications

*MINIMUM WIRING REQUIREMENTS BETWEEN DOOR AND ROOM STATIONS

UP TO 15m DISTANCE	OVER 15m DISTANCE
4 CORE SCREENED CABLE for PWR, GND, AD and VD.	4 CORE SCREENED CABLE for PWR & AD (only 1 pair required) RG59 COAX for GND & VD. Maximum cable distance. Master Station to Slave Station: 60m Door Station/s to Master Station: 80m

RECOMMENDED CABLE
100-960 4 Core Screened cable 100m reel
100-353 RG59 Coax cable 100m reel

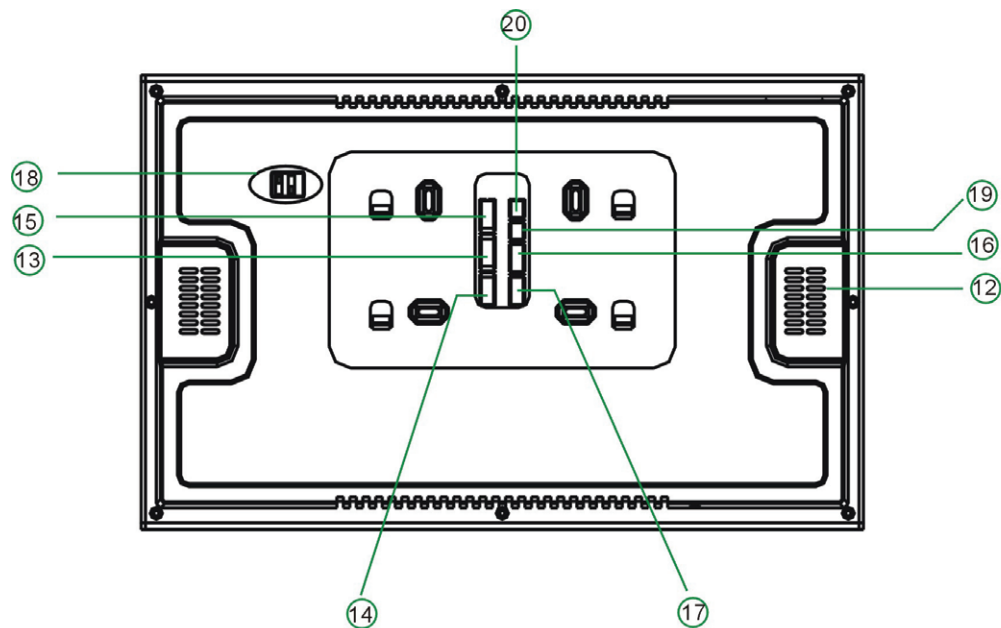
NOTE - 4 CORE SCREENED CABLE
Connect outer screen to GND at the master station end only.

Room Station Description



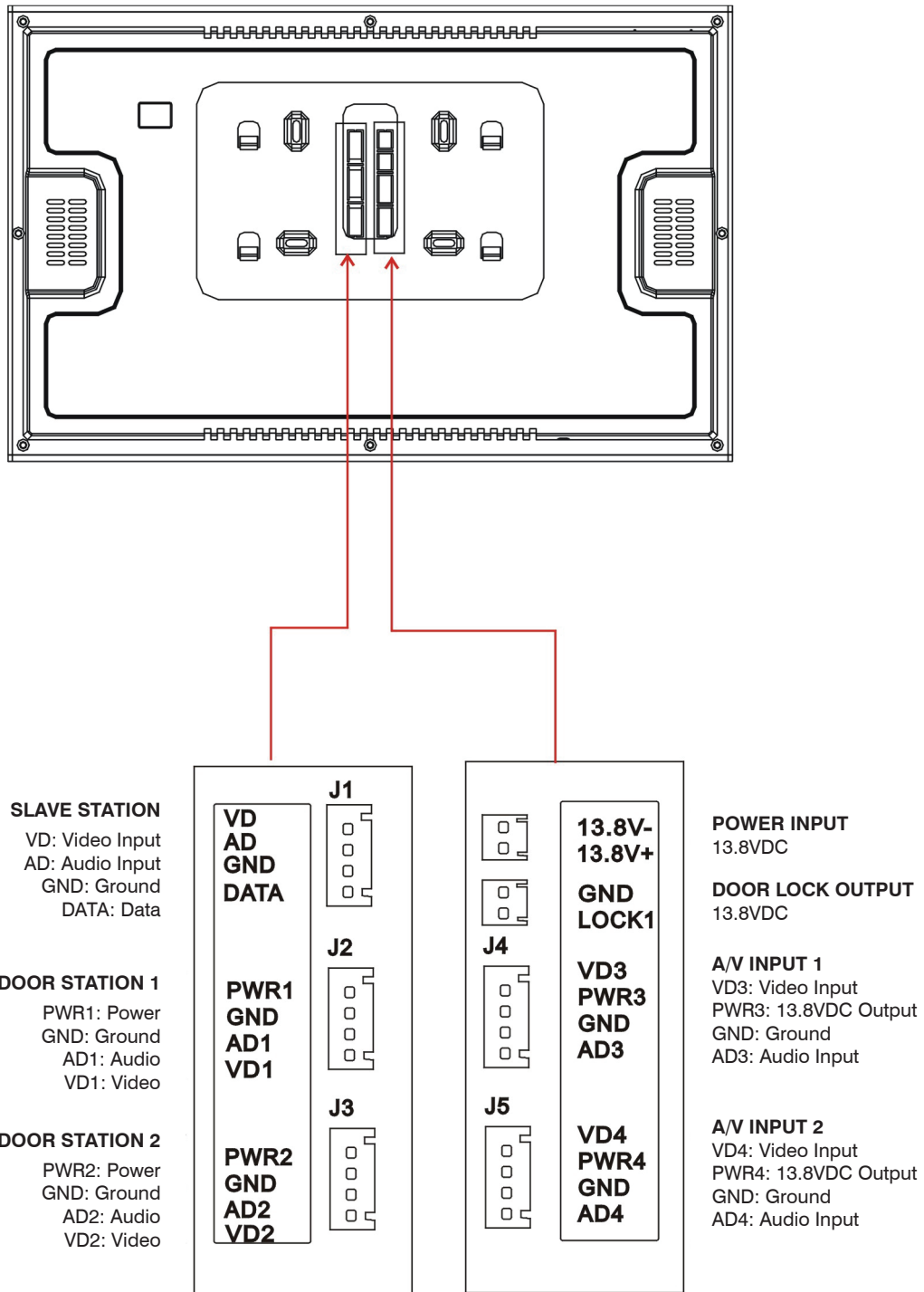
- ① **Monitor button**
- ② **Answer / Call / Transfer / Intercommunication button**
- ③ **Door release button**
- ④ **Off / Save button**
- ⑤ **Adjust Left/Right buttons**
- ⑥ **Menu: Brightness/Contrast/Colour button**
- ⑦ **Chime Select button**
- ⑧ **Microphone**
- ⑨ **10" Colour Screen**

Room Station Rear Description

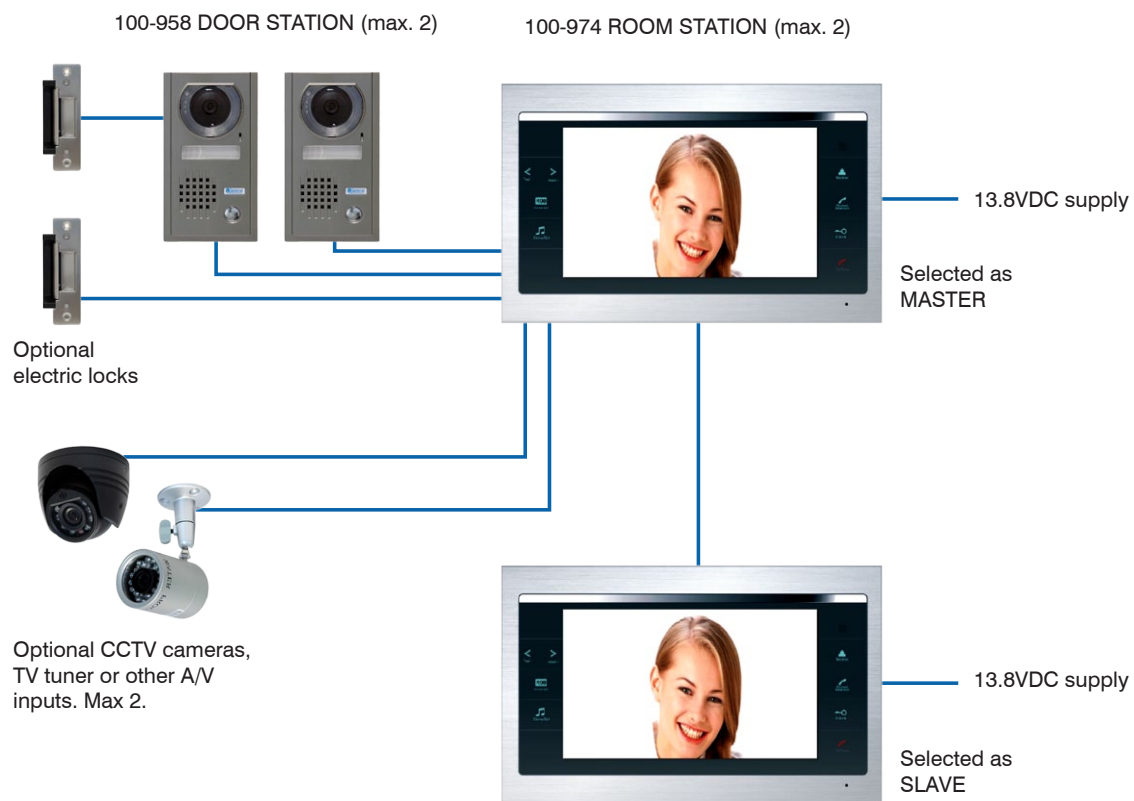


- 12 Speaker
- 13 Door Station 1 connection
- 14 Door Station 2 connection
- 15 Slave Room Station connection
- 16 Optional Audio/Video Input 1 connection
- 17 Optional Audio/Video Input 2 connection
- 18 Master/Slave selector dipswitches
- 19 Door 1 lock release output, 12VDC
- 20 Power input 13.8VDC

Room Station Connections



System Schematic

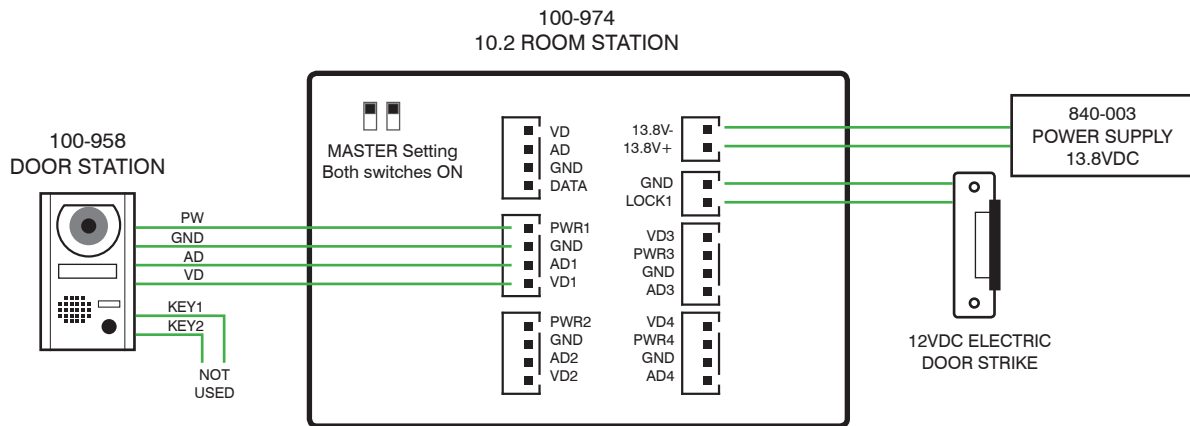


Connection Diagram 1 Door Station / 1 Room Station

Door Lock Connection, Method 1

Notes

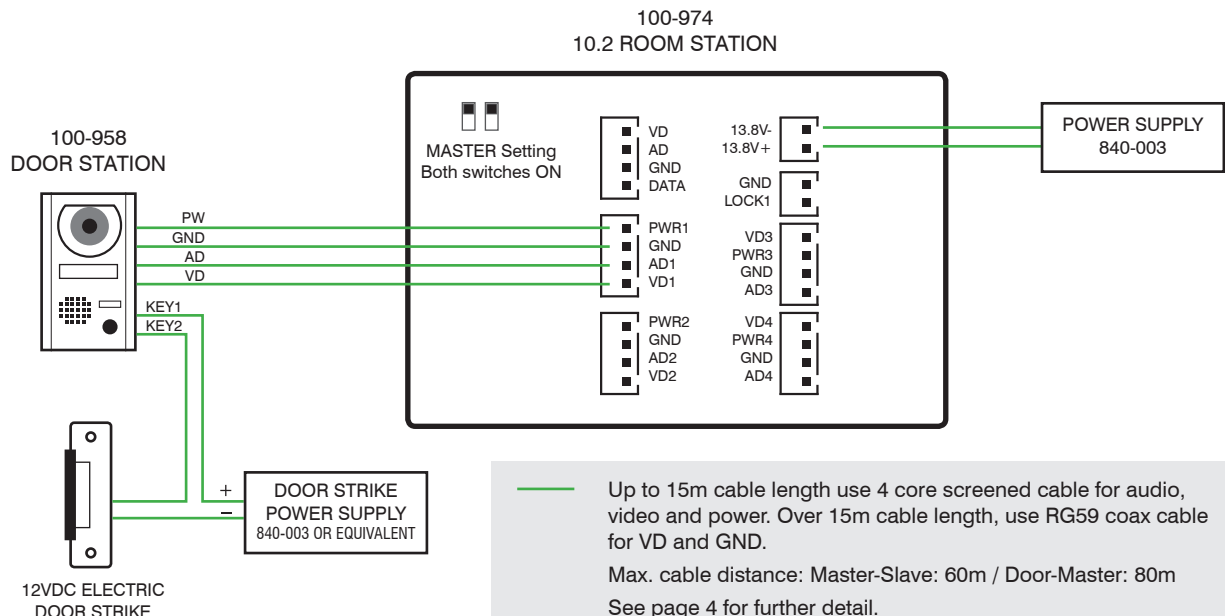
1. The Room Station provides power for the electric door strike.
 2. One extra pair of wires is required between the door and the Room Station.
- This method eliminates the need to provide a dedicated power supply for the electric door strike.



Door Lock Connection, Method 2

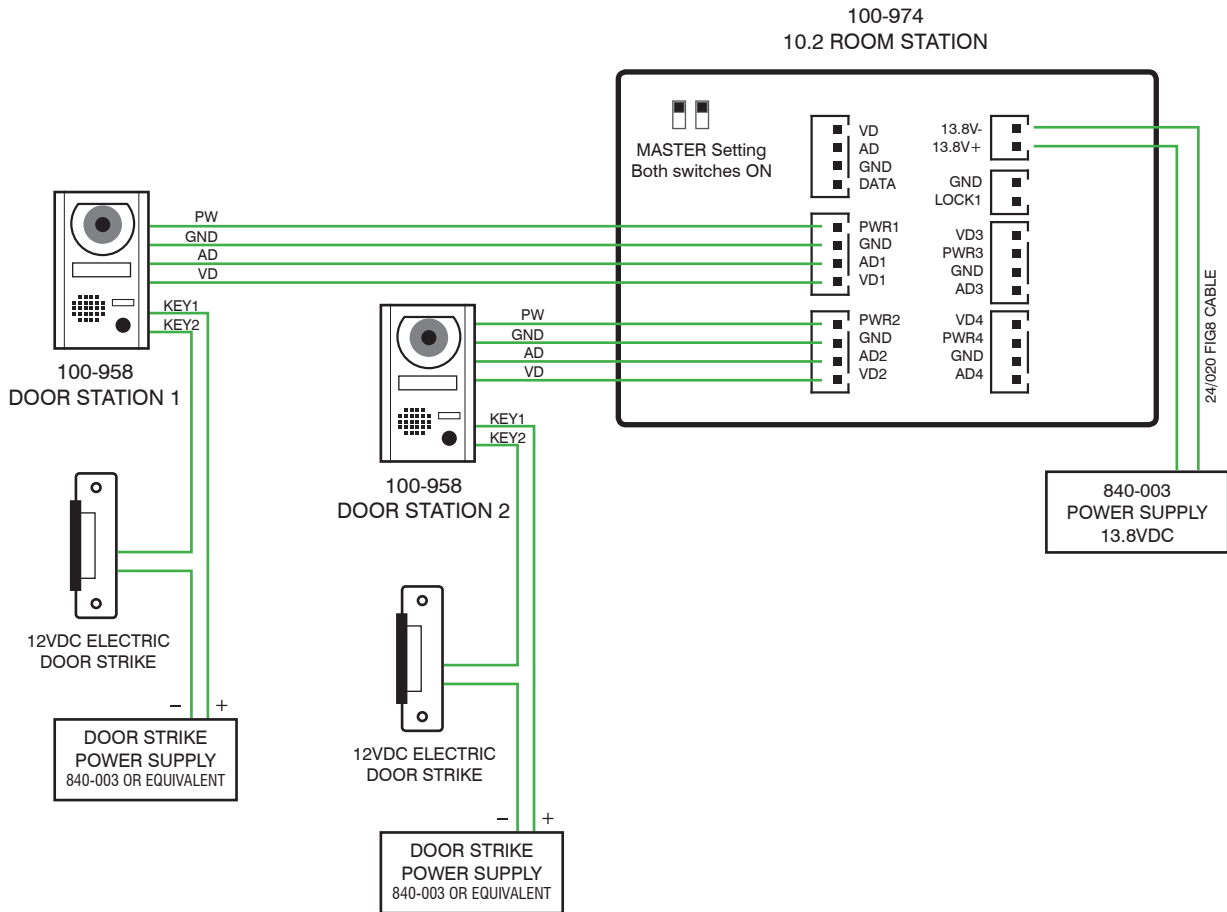
Notes

1. The electric door strike is unlocked by a pair of dry relay contacts at the Door Station.
2. A dedicated power supply is required for the electric door strike.
3. If the door strike power supply is located near the front door then only 4 wires are required between the door and the Room Station.
4. This method provides lower security as the door strike can be operated by short-circuiting the KEY1 & KEY2 wires at the back of the door station.



Connection Diagram

2 Door Stations / 1 Room Station

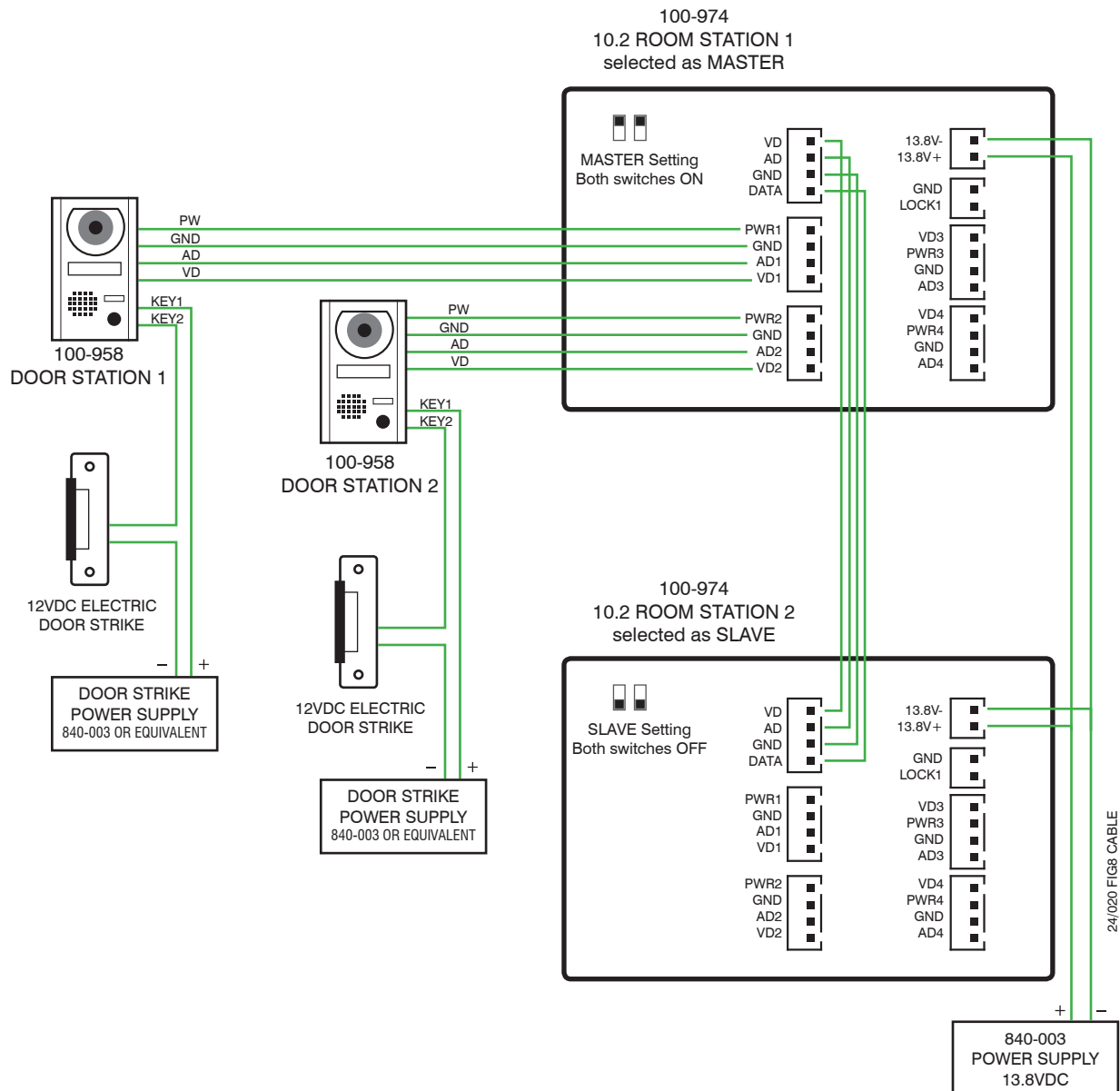


Up to 15m cable length use 4 core screened cable for audio, video and power. Over 15m cable length, use RG59 coax cable for VD and GND.

Max. cable distance: Master-Slave: 60m / Door-Master: 80m
See page 4 for further detail.

Connection Diagram

2 Door Stations / 2 Room Stations



NOTE:

A single 840-003 13.8VDC power supply can be used to power both room stations.

If the distance between room stations is over 30m install one power supply at each room station.

Up to 15m cable length use 4 core screened cable for audio, video and power. Over 15m cable length, use RG59 coax cable for VD and GND.

Max. cable distance: Master-Slave: 60m / Door-Master: 80m

See page 4 for further detail.

Switch Settings

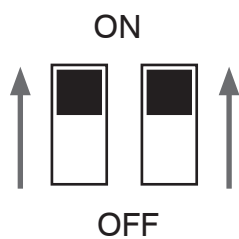
When connecting two room stations to the system, set the dipswitches on the rear panel of each station as follows.

Switch 1. Enables video load impedance

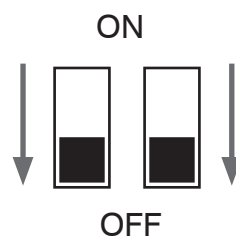
Switch 2. Master/Slave setup

Please disconnect power to each station before changing switch settings.

MASTER STATION
OR SINGLE STATION
Set both switches ON



SLAVE STATION
Set both switches OFF



Room Station Installation Guide

1. Use the recommended cable between all stations.
2. Determine the correct height for the Room Station/s. Typical installation height is between 150-160cm. See figure 1.
3. Run the cable through the bracket and mount the bracket to the wall using screws.
4. Terminate the cable at the monitor following the relevant wiring diagram in this manual.
5. Fit the Room Station on the bracket. See Figure 2.

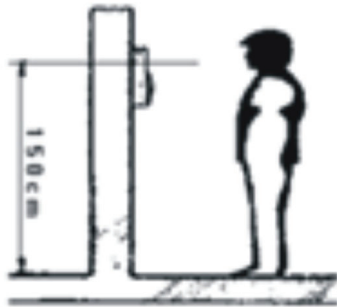


FIG. 1

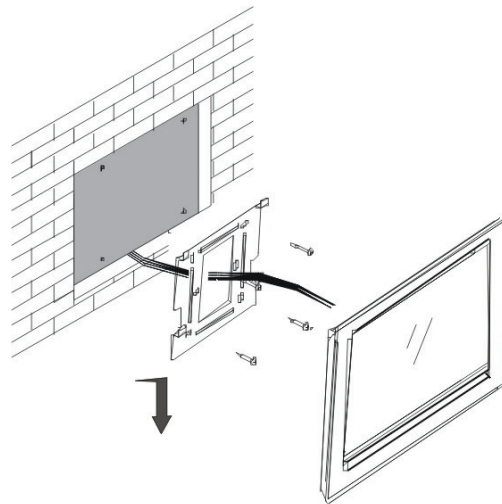
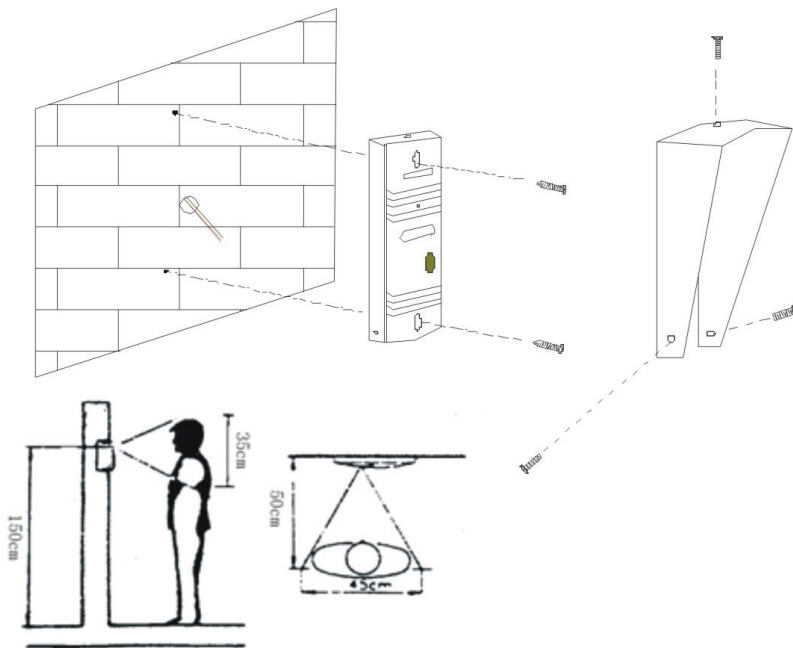


FIG. 2

Door Station Installation Guide

1. Please take care to select the most suitable position for the Door Station.
2. Consider all factors which may affect audio and video performance such as likely sun position in daytime, shadows, blindspots, avoid backlighting, and the likely weather impact.
3. Direct Sunlight on the camera and expose to rain should be avoided.
4. Determine the best Door Station height for your premises. Typical installation height is 150 - 160cm.




Operating Instructions


Operating Instructions

HOW TO ANSWER THE DOOR STATION AND RELEASE THE DOOR LOCK

When a visitor presses the call button at the front door/s the room station/s will chime and the monitor will display the video from the front door which called.

Press  to answer. *You have 60 seconds to talk with the visitor*


Press  to hang up.

Press  to release the door lock (if fitted).

If the system has two door stations, the door lock which made the call is released.

HOW TO TRANSFER A CALL (If two room stations are installed)

To transfer a call from the door station to the other room station.

Press the  button again. The call will be transferred to the other room station. Your room station will hang up once the call has been transferred. Conversation time is 60 seconds.


Operating Instructions

HOW TO MONITOR AUDIO & VIDEO INPUTS

Your 10.2 Intercom System has four Audio/Video inputs that can be viewed at any room station.


Inputs 1 & 2 provide audio and video signals from Door1 and Door2.


Inputs 3 & 4 provide audio and video signals from two optional A/V sources such as CCTV cameras, TV tuners, MP3 players and many other types of devices for surveillance or entertainment.

Press  to display video from Door1. *The image will display for 30 seconds.*

Press  again to display video from Door2. *The image will display for 30 seconds.*

Press  again to display video and audio from A/V Input 1.

Press  again to display video and audio from A/V Input 2.

Note 1. The image and audio (if connected) from A/V1 & A/V2 will remain on until another input is activated or  is pressed.


Note 2. If a call is made from a door station while an A/V input is being monitored, the display will switch to allow the call from the front door. When the call is completed the display will return to the previous A/V input.

Operating Instructions

HOW TO MAKE AN INTERCOM CALL BETWEEN TWO ROOM STATIONS

In standby mode press  at your room station.

The other room station will chime.

Press  on the other room station to take the call.

HOW TO ADJUST BRIGHTNESS/CONTRAST/COLOUR


At any time with an image on the display:

Press  *The monitor will display the "Brightness" level.*

Use the < or > button to adjust the image brightness.

Press  again. *The monitor will display "Contrast" level.*

Use the < or > button to adjust the image contrast.

Press  *to save the settings and return to the main menu.*

Press  to exit.

Operating Instructions

HOW TO CHOOSE THE CALL CHIME TUNE

To choose one of the 12 available chime tunes.
Have one person press the call button on the door station.



At a room station press Chime/set to change the tune.
Press repeatedly to play each tune in turn.



Press Off/Save to save the selected chime tune.


HOW TO ADJUST ROOM STATION VOLUME

During a front door call or when listening to an optional audio source from A/V1 or A/V2:
Use the < or > buttons to adjust speaker volume at the room station.

HOW TO USE THE “DO NOT DISTURB” FUNCTION


The “Do Not Disturb” function can be activated when you don’t want to be disturbed by calls from the front door or another room station.

TO ACTIVATE Do Not Disturb mode

In standby mode press  Chime/set for 2 seconds. The button will light up red.

In Do Not Disturb mode you will still see video from a front door call and you can answer the call, but the chime will be silent. Intercom calls from another room station will be ignored.

TO CANCEL Do Not Disturb mode

Press  Chime/set for 2 seconds. The red lit button will turn off.

