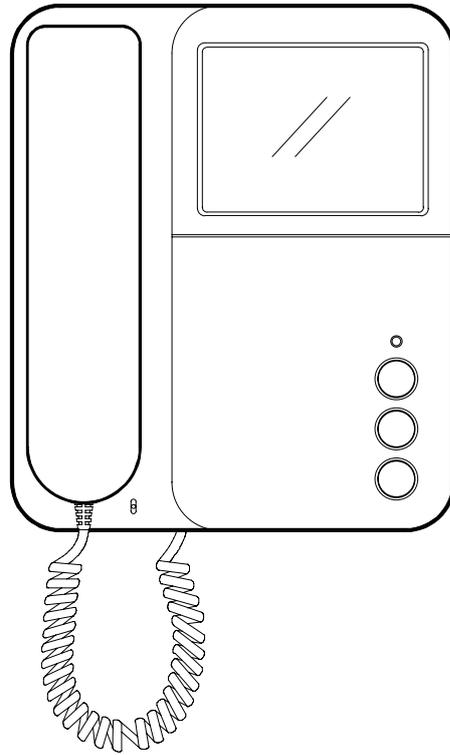
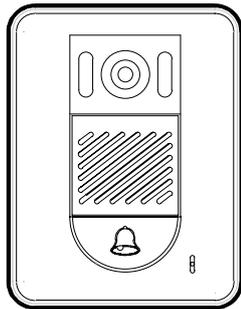

VIDEOMAN

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Designed, imported and distributed by Videoman Systems Co.

SECURITY VIDEO INTERCOM



VS-902 B&W 16VDC
(VS-902M + VS-902C + VS-902PSU)

VS-902P B&W 240VAC
(VS-902PM + VS-902C)

VS-952 Colour 16VDC
(VS-952M + VS-952C + VS-902PSU)

VS-952P Colour 24VAC
(VS-952PM + VS-952C)

Indoor Monitor(Ref VS-902M) Installation

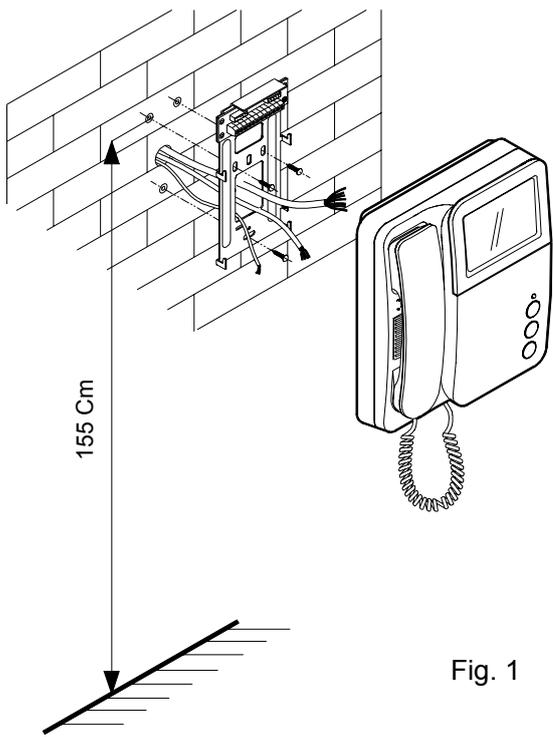


Fig. 1

Audio Handset (Ref VS-902H) Installation

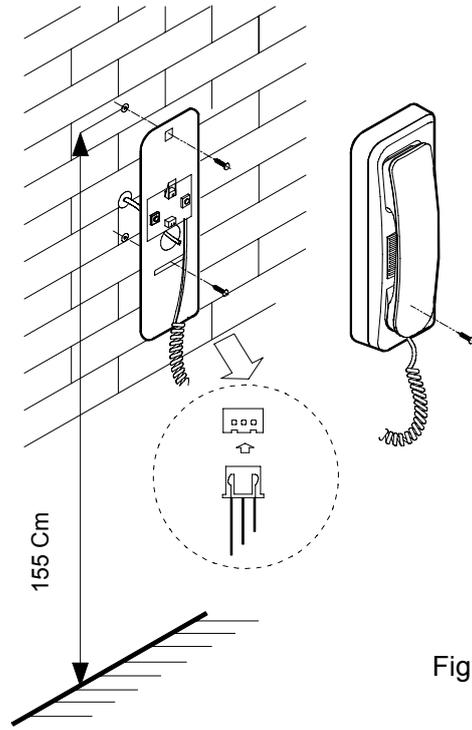


Fig. 2

Surface Mount Camera(Ref VS-902C)Installation

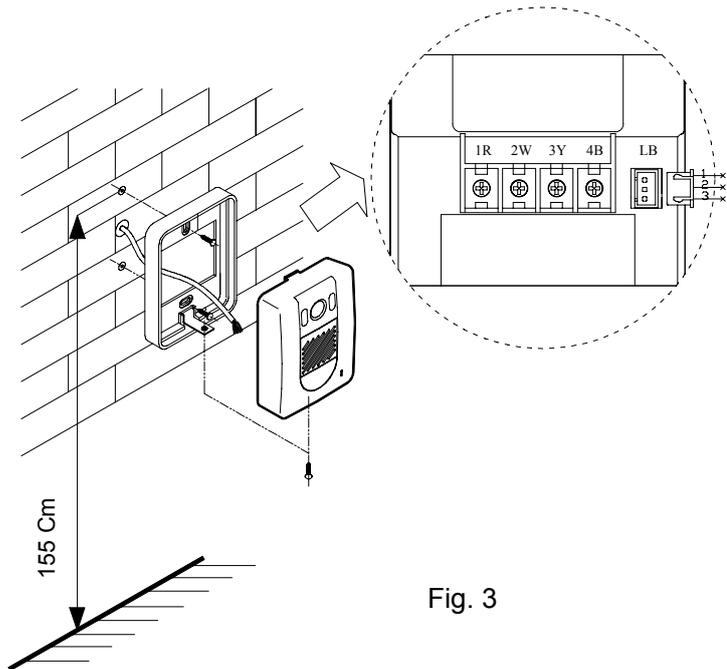


Fig. 3

Install indoor monitor, outdoor camera or audio handset about 1.55M~1.60M from the ground and keep away from snow, rain and direct sunlight.

NOTE : Optional angle brackets are available for surface mount cameras

- 45Degree left/right : Ref VS-902AB45
- 15Degree left/right : Ref VS-902AB15

Flush Mount Camera (Ref VS-902MC) Installation

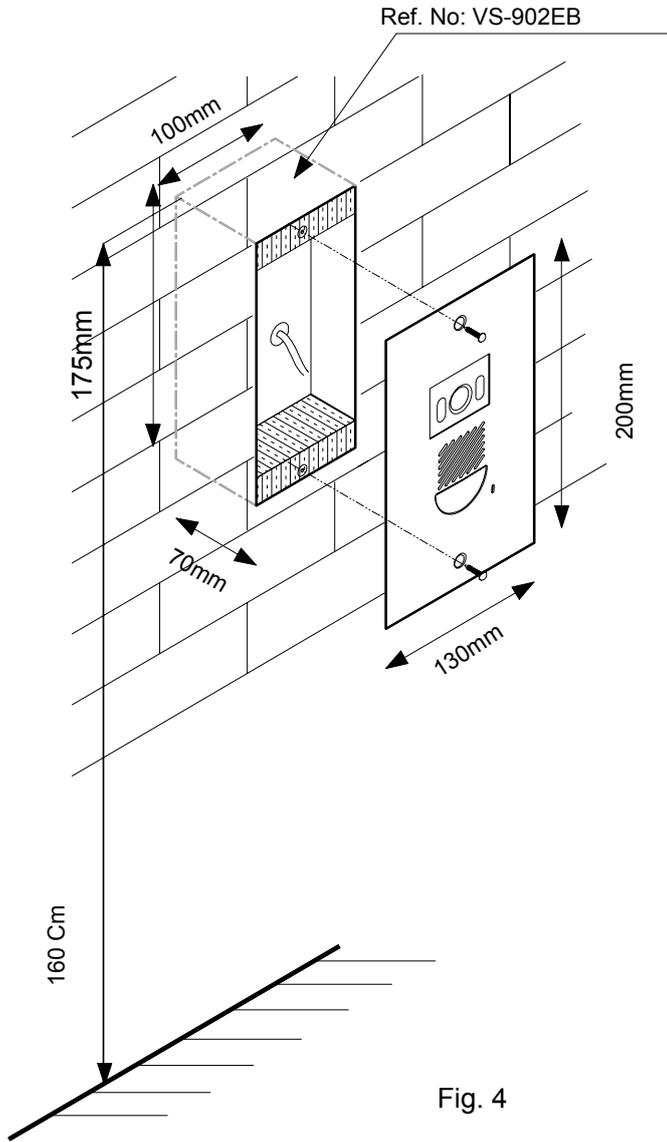


Fig. 4

Dimensions

- Overall size of front panel :
130mm(W) x 200mm(H)
- Cut out size without embedding box:
100mm(W) x 130mm(H) x 60mm(D)
- Cut out size for embedding box (Ref VS-902EB):
100mm(W) x 175mm(H) x 70mm(D)

Descriptions of Audio Handset (Ref VS-902H)

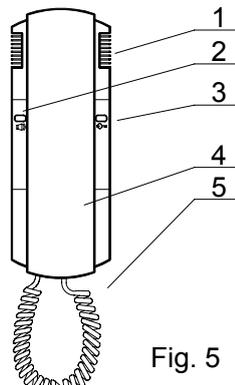
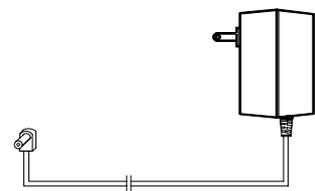


Fig. 5

Dimension: 215(H)x80(W)x45(D)

1. Loud Speaker for Ring Tone
2. "Intercom-Call" button
3. "UNLOCK" button
4. Handset
5. Spiral cord

Descriptions of Power supply (Ref VS-902PSU)



16V DC 800mA SAA Approved

Fig. 6

The adaptor is only supplied with VS-902 and VS-952

(-) : Black wire : Surround

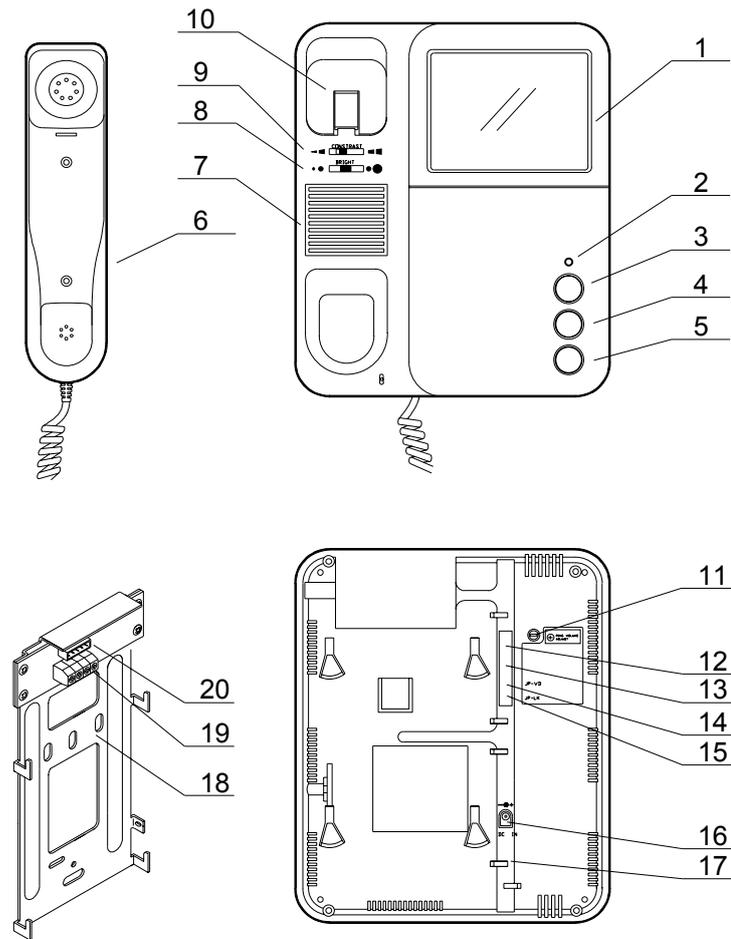
(+) : White Stripe : Centre

For 240V AC model (Ref. VS-902PM, Ref.VS-952PM) connect the monitor directly to 240V AC mains without 16V DC power supply (Ref.VS-902PSU)

Descriptions of Monitor

16VDC Model (Ref.VS-902M B&W, Ref.VS-952M Colour)

240VAC Model (Ref.VS-902PM B&W, Ref.VS-952PM Colour)



Dimension:220(H)x190(W)x55(D) Fig.7

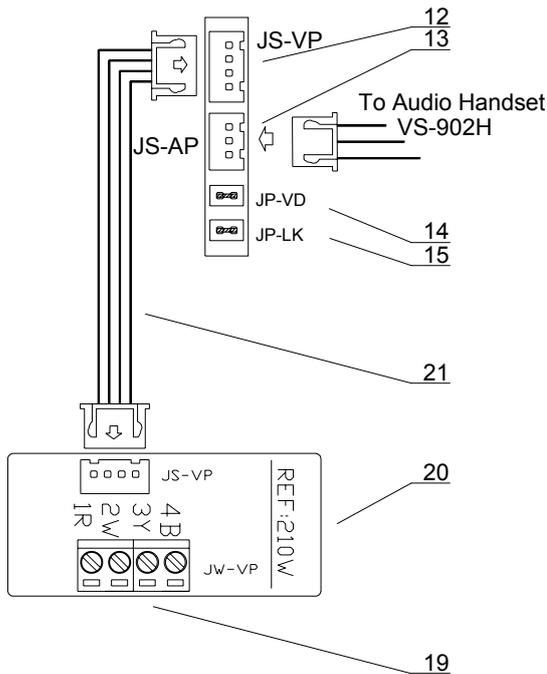
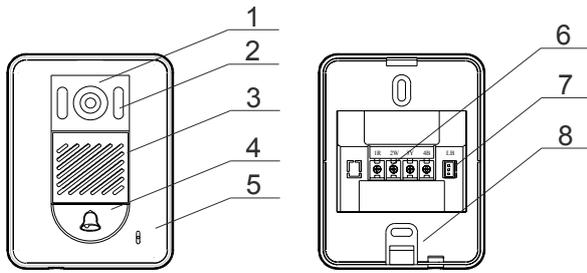


Fig.8

1. Screen
2. Power Indicator
3. "MONITOR" button (Refer to Page8)
Press to turn on monitor or switch the second camera if the second camera is installed with a switcher (Ref:VS-2Way)
4. "UNLOCK" button (Refer to Page8)
5. "INTERCOM" call & Ring tone selection button (Refer to Page8)
6. Handset
7. Loudspeaker for ring tone
8. Brightness adjustment
9. Contrast (Ref VS-902M/PM) or Colour(Ref.VS952M/PM) adjust
- 10.Cradle and Hook switch
11. Ringing volume adjust
12. JS-VP 4 pin port to Bracket Board(Ref VS-210W, VS-2Way)
13. JS-AP 3 pin port for Handset (Ref.VS-902H)
This connector is supplied with Ref VS-902H.
14. JP-VD Video impedance setting (Refer to Page5 Note2)
 - With Jumper : 75 Ω for the furthest monitor (factory default is with Jumper)
 - Without Jumper : High impedance for other monitor(s)
15. JP-LK Unlock operation type setting (Refer to Note Page4 #7, Page5 Note1,2,3)
 - With Jumper : Dry contact output from Camera's LB terminal (factory default)
Additional power supply is required for door latch with this type of door latch operation.
 - Without Jumper : 12VDC Max.500mA output to door latch from Camera's LB terminal.
- NOTE 1 : During unlock operation the screen will be off if this mode is selected.
- NOTE 2 : Do not use any electric door latch bigger than 6W with this type of door latch operation.
16. DC input socket (Ref. VS-902M & Ref.VS-952M)
17. AC input cord (Ref. VS-902PM & Ref.VS-952PM)
18. Wall mounting bracket
(Single camera : Ref. VS-210W; Standard)
(With second camera : Ref. VS-2Way , Optional extra)
19. JW-VP wiring terminal to camera(s) & slave monitor(s)
20. JS-VP monitor terminal
21. 4 core connector with plugs (Ref. VS-4P)

Descriptions of ABS plastic surface mount camera (Ref. VS-902C)



Dimension: 128(H)x98(W)x43(D)

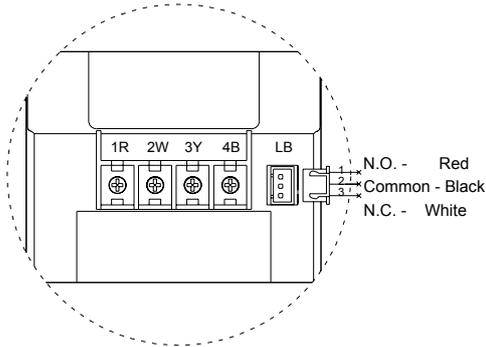


Fig. 9

1. Camera
2. IR LEDs for night vision
3. Speaker
4. CALL button
5. Microphone
6. Cable terminal to monitor
7. Unlock port LB – The characteristic of this port out is determined by JP-LK Jumper on back of monitor (Refer to Page3 #15, Page5 Note3)

■ With Jumper : Dry contact output from Camera's LB terminal (factory default)

■ Without Jumper : 12VDC Max.500mA output to door latch from Camera's LB terminal.

Pin#1 (Top - Red): Normally Open

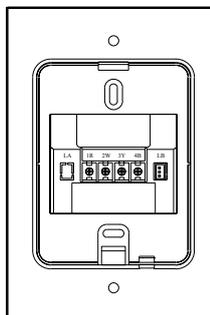
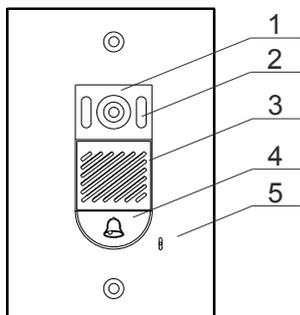
Pin#2 (Middle-Black): Common

Pin#3 (Bottom-White): Normally Close

8. Mounting bracket

- 1R +12V DC presents when outdoor station being called or supervised.
 2W Ground (GND)
 3Y Video signal (1Vp-p)
 4B Audio and control signal

Descriptions of Stainless Steel Flush mount camera (Ref. VS-902MC)



Overall Dimension (mm):
200(H)x130(W)x50(D)

Cut Out size without embedding box:
100(W) x 130(H) x 60(D)

Cut Out size with embedding box:
175(H)x100(W)x70(D)

Fig. 10

1. Camera
2. IR LEDs for night vision
3. Speaker
4. Call button
5. Microphone

NOTE : This camera can be used with optional embedding box (Ref.VS-902EB), Refer to Page2.

Fig. 11 Dry contact mode

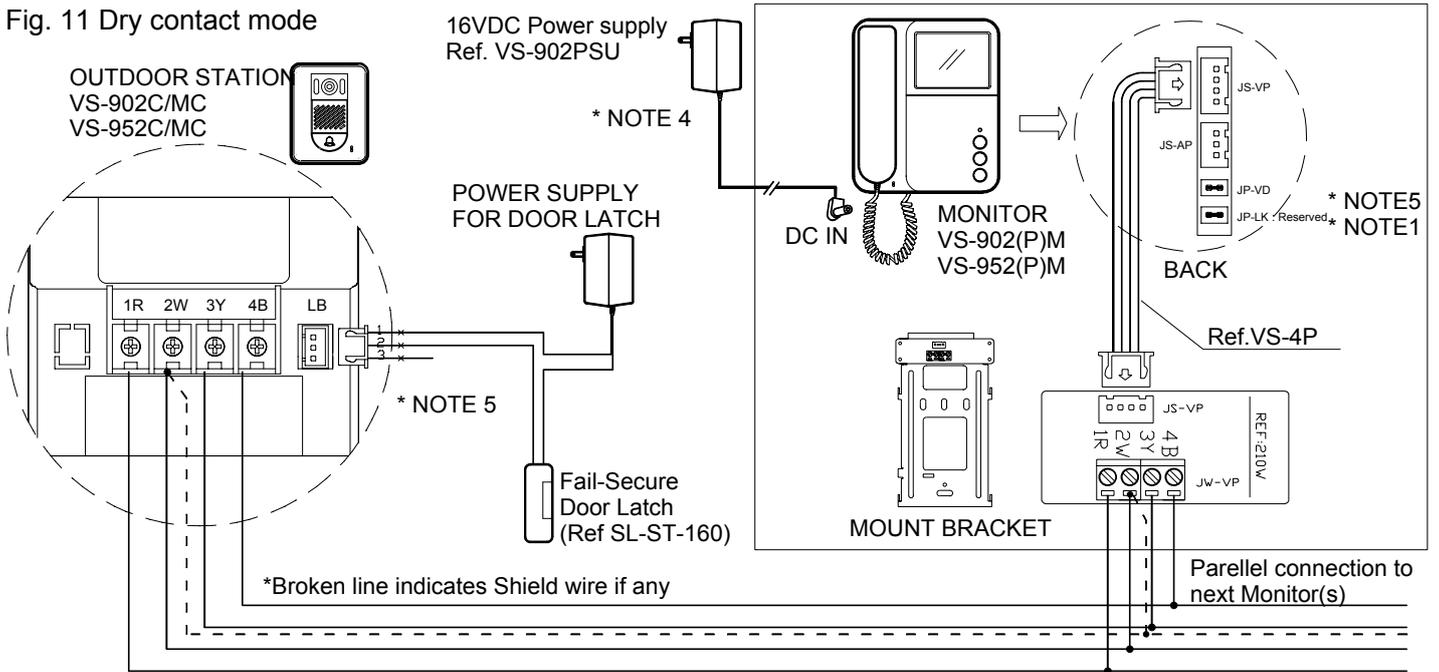
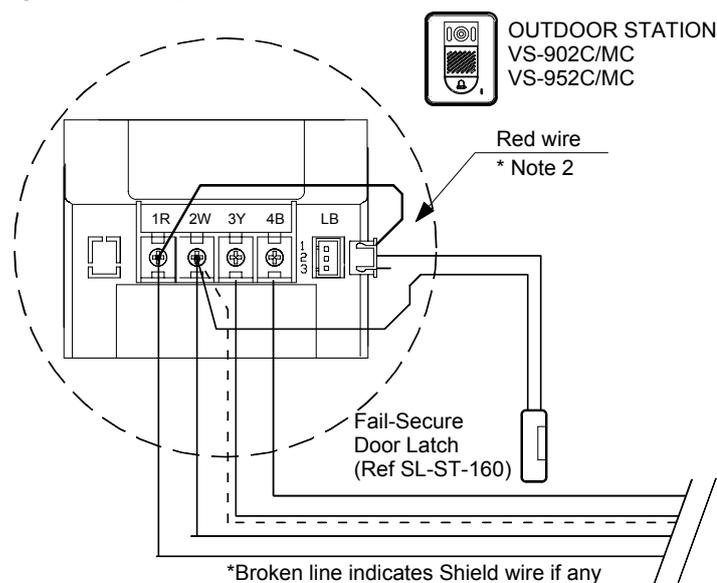


Fig. 12 : DC output mode



- NOTE 1: JP-LK is used for Unlock operation type setting. (Refer to Note Page4 #7, Page3 #15.)
 - ◆ With Jumper (Dry contact mode) : Dry contact output from Camera's LB terminal (factory default) Additional power supply is required for door latch with this type of door latch operation.
 - ◆ Without Jumper (DC output mode): 12VDC Max.500mA output to door latch from Camera's LB terminal. During unlock operation the screen will be off if this mode is selected. Do not use any electric door latch bigger than 6W with this type of door latch operation.
- NOTE 2 : In DC output mode as above, the Red wire must be in connected to 1R as Fig 12. Only a fail-secure type (Normally locked) door lock can be used in this mode.

- NOTE 3: LB terminal provides two ways of connection---"Normally Close" and "Normally Open".
Connect a fail-secure(Normally locked) type door latch (Ref. SL-ST-160) to terminal No.1 & 2.
For a fail-safe(Normally unlocked) type door latch, connect it to No.2 & 3 but only available with Dry contact mode (An additional power supply (Ref.SE-12VDC05Adpt) is required.)
- NOTE 4: For 240V AC model (Ref. VS-902PM, Ref.VS-952PM) connect the monitor directly to 240V AC mains without 16V DC power supply (Ref.VS-902PSU)
- NOTE 5: JP-VD is used for setting the video impedance. When there is only one indoor monitor, keep the jumper (Factory Default), but when more than one monitor is installed, remove JP-VD Jumper from all other monitors except the last monitor.

System connection with two cameras and multiple monitors

IMPORTANT!! Please read page 9 & 10 for cable requirements *BEFORE* running cables.

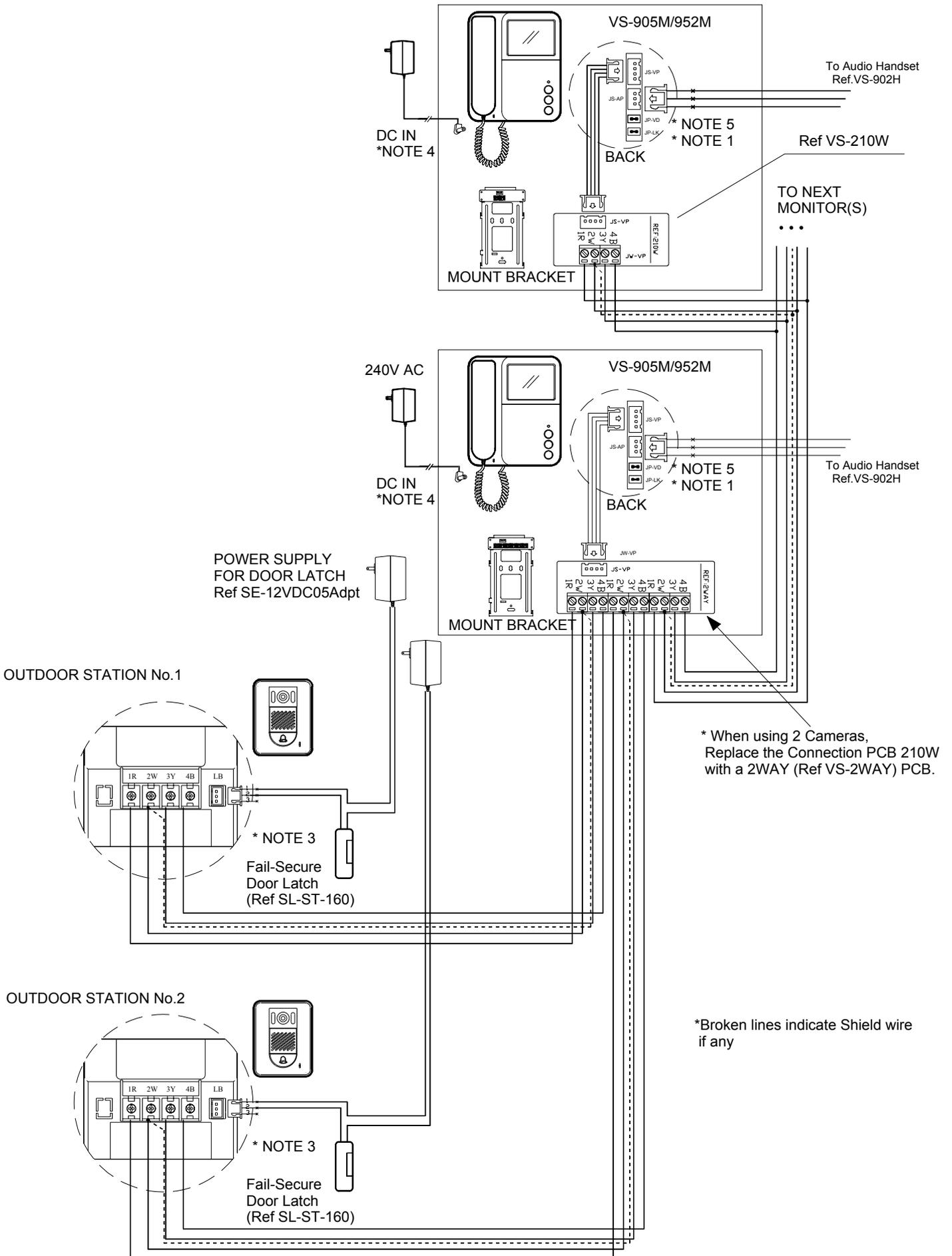


Fig. 13

Video distributor (Ref. GL-D4L-PLUS) for multiple colour monitors

When more than one colour monitor is installed (Ref. VS-952M, VS-952PM) in a system, using a video amplifier (Ref.GL-D4L-PLUS). This is highly recommended for better image.

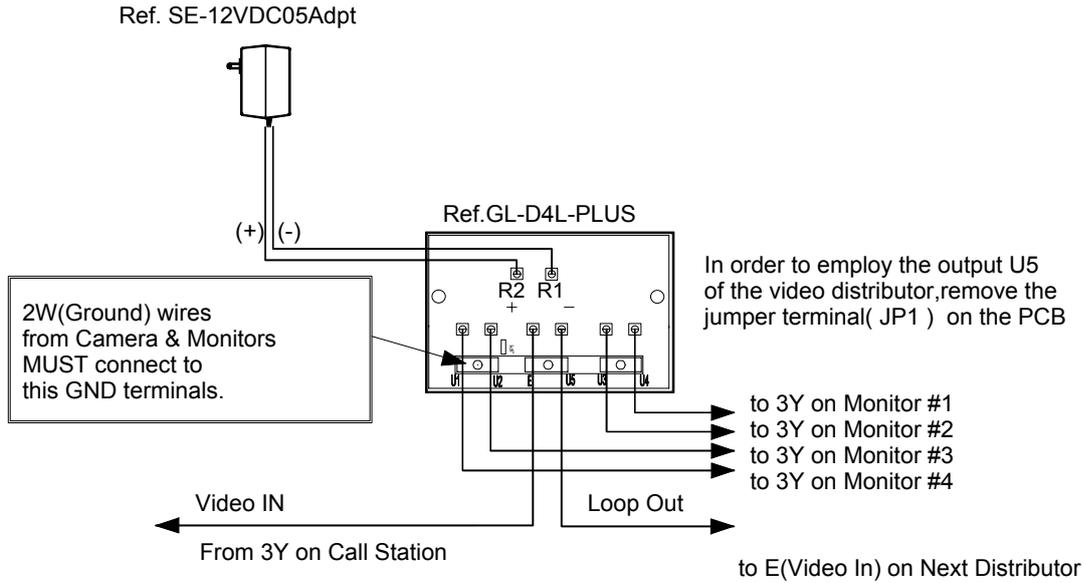


Fig. 14

System connection with audio Handset

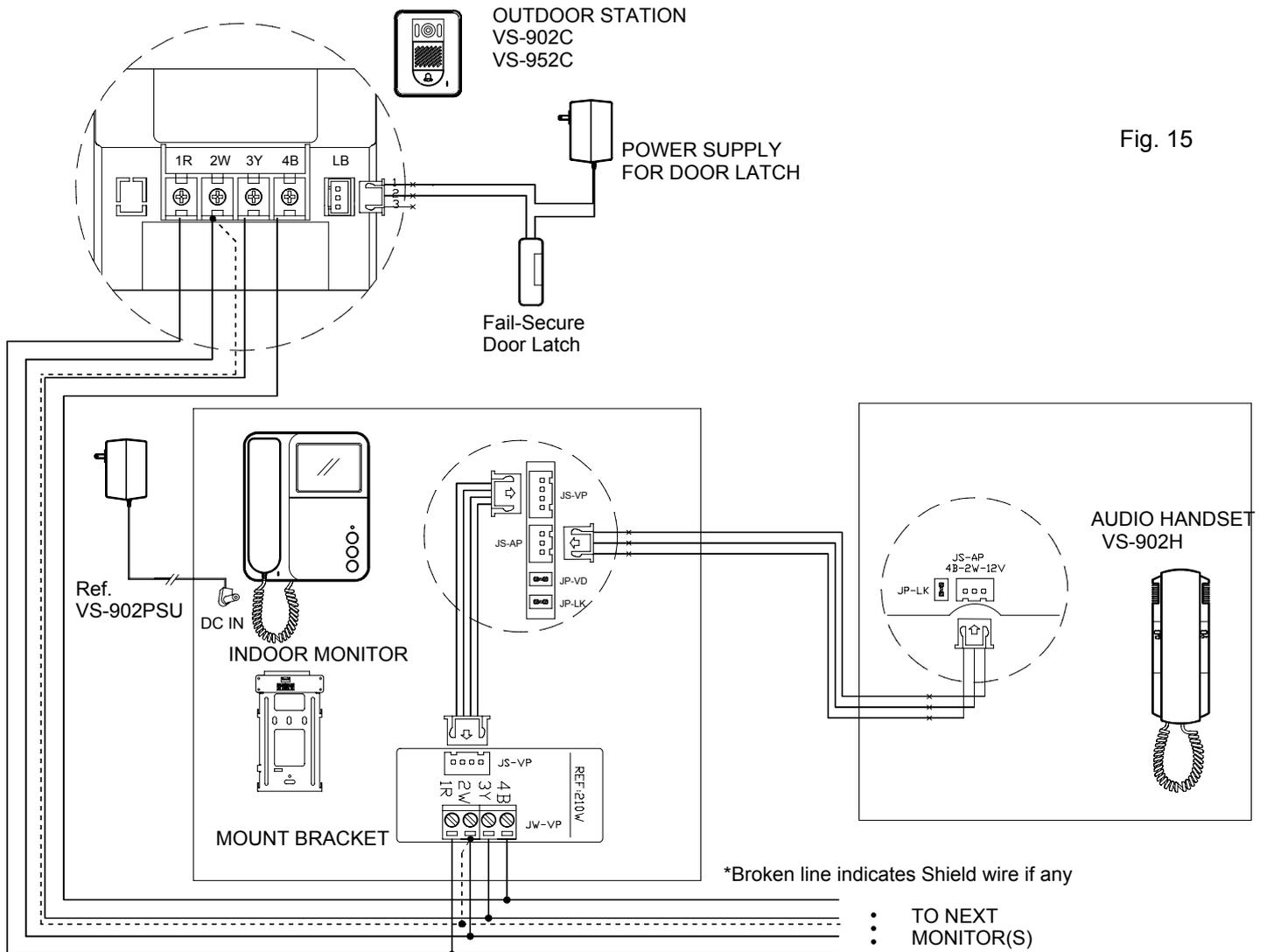


Fig. 15

Basic Operation

When visitor presses the "CALL" button on the outdoor station, the electronic bell in indoor monitor chimes, at the same time, the screen displays the visitors' images.

Pick up the handset, and talk with the visitors for 90 seconds. If nobody answers the phone, the screen will turn off in 30 seconds automatically. If the system connects more than one indoor monitor – when one handset is picked up, the other indoor monitors will be off immediately.

Monitoring through indoor monitor

Press "MONITOR" button on indoor monitor, the screen will display the outdoor camera. To turn it off press again or wait in 30 seconds turn it off automatically.

Monitor adjustment

If desired, the contrast and brightness may be adjusted improve the image and brightness level.

Volume level of the ring tone may also be adjusted by the potential meter at the back of monitor.

Impedance setting is required by JP-VD Jumper at the back of monitor, when more than one monitor is installed.

(Refer to Page5 Note2)

Door latch operation

Click "UNLOCK" button to open the electronic latch during monitoring or talking.

- 1) Single click will activate the latch for 3 Seconds. For longer door latch operation, press and hold the "UNLOCK" button
- 2) Door unlock operation type can be setup by JP-LK Jumper on the back of monitor. (Refer to Page3#15, Page4#7 & Page5 Note1,2)

Operation for Intercommunication between monitors/handsets

When system is connected with multiple monitors/handsets, internal intercommunication is available.

An Intercom calling can be started by any indoor monitor. Pick up (off the cradle) the handset and press "INTERCOM" button, other indoor monitors/handsets will ringing if they are on the cradle, pick up handset to talk between monitors/handsets.

Change of Ring tone by "INTERCOM" button

While the handset is on the cradle, press and hold the "INTERCOM" button for 3 second for ring tone change. Click the button until desired ring tone for the door bell is heard, then lift the handset and hang up. This setting will be reset to factory default ring tone once monitors lose its power.

Operation for multiple outdoor cameras

- 1) When outdoor station calls, the screen will display the view of the visitor automatically and communication is available after picking up the handset.
- 2) The indoor monitor can supervise each outdoor station (cameras) in turns. When "MONITOR" button is first pressed, it displays image from No.1 outdoor camera; Second press of "MONITOR" button will display image from No.2 outdoor camera. Press "MONITOR" button again to turn the screen OFF.

NOTE: While monitoring or talking, press "UNLOCK" button to open the lock, that is connected to the outdoor camera which is being monitored.

Cable requirement – STAR Wiring method

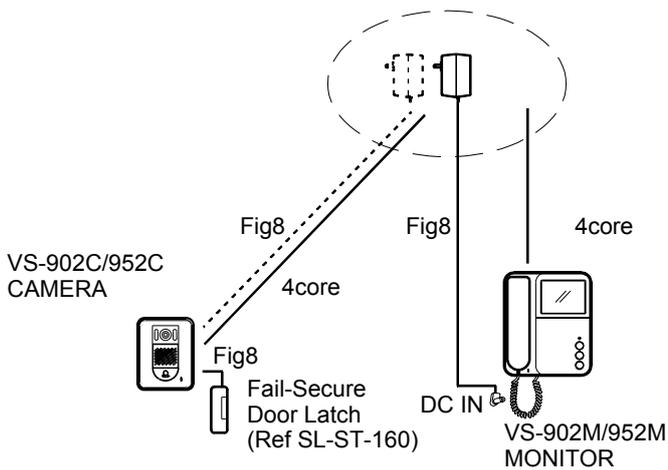


Fig. 16

An additional power supply and Fig8 Cable is required when JP-LK Jumper is removed. (Indicated as broken lines of the diagrams)
Refer to Page3 #15, Page4 #7 and Page5 Note1,2,3 of this manual.

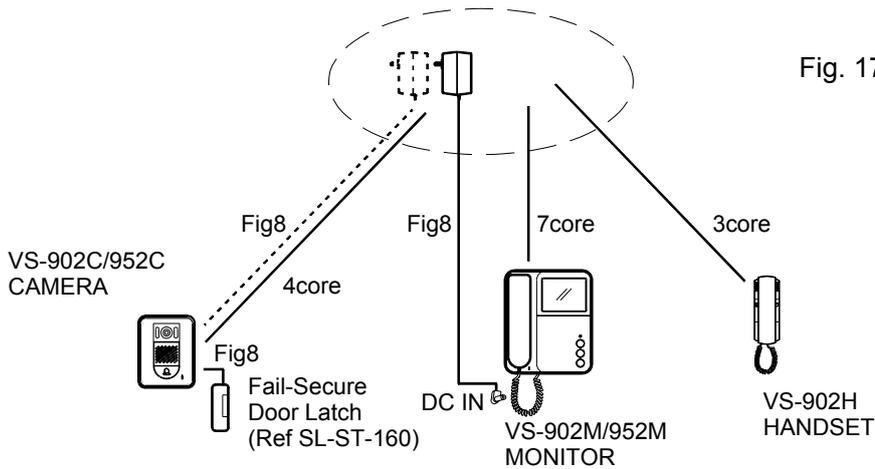


Fig. 17

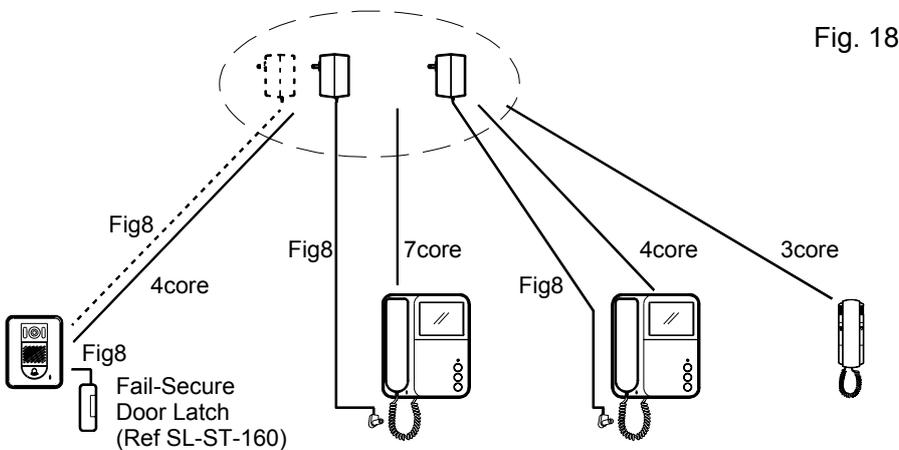


Fig. 18

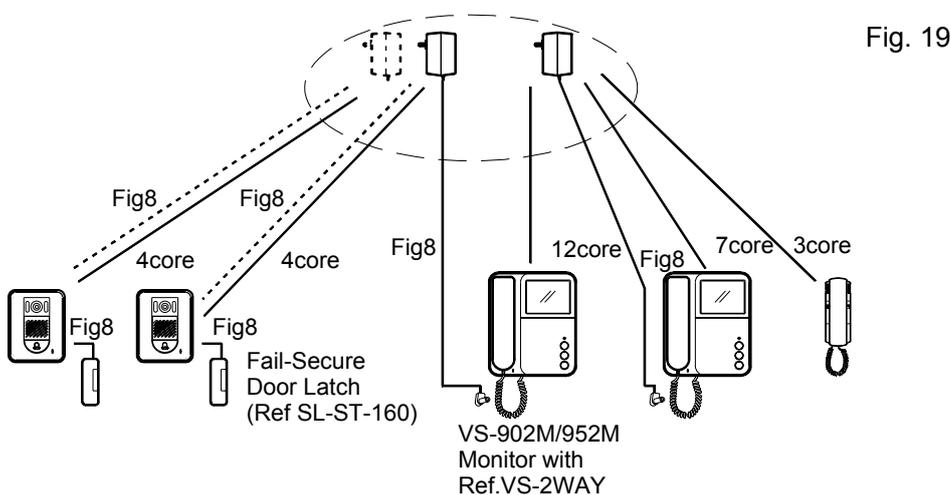
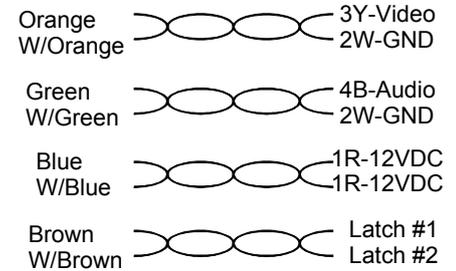


Fig. 19

Cable requirement

Based on the distance from the camera to the furthest monitor,

- < 20M : CAT5 cable



CAT5 wire configuration

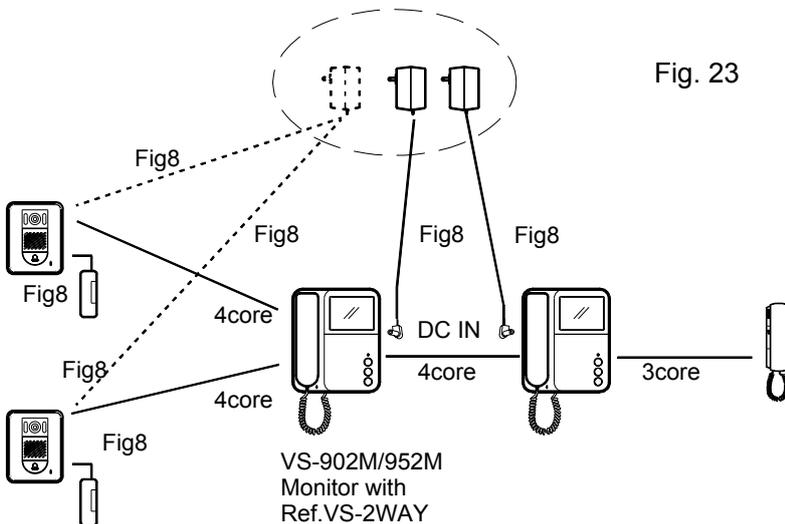
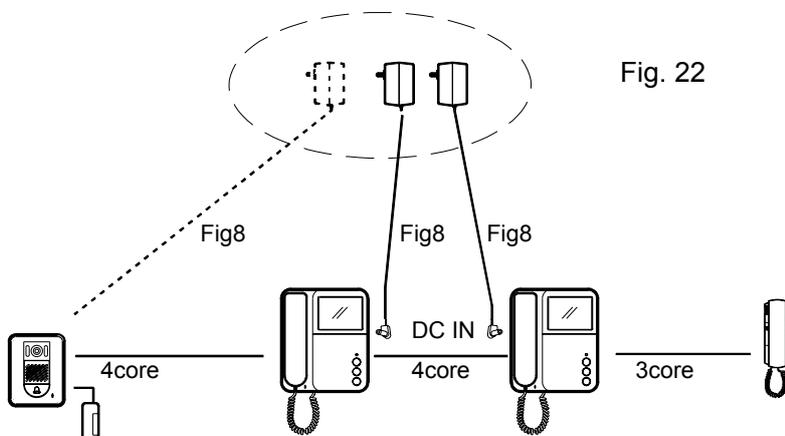
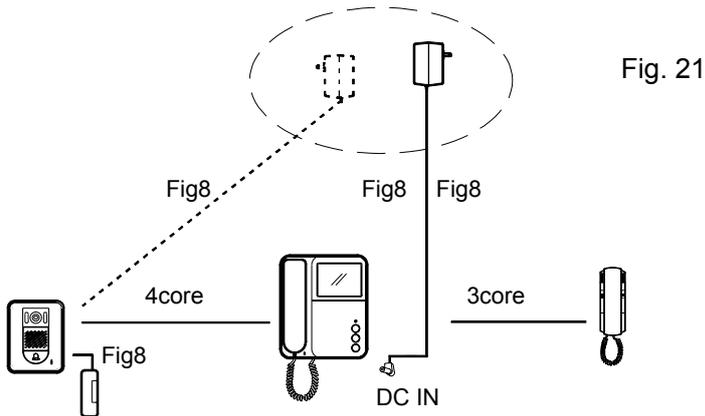
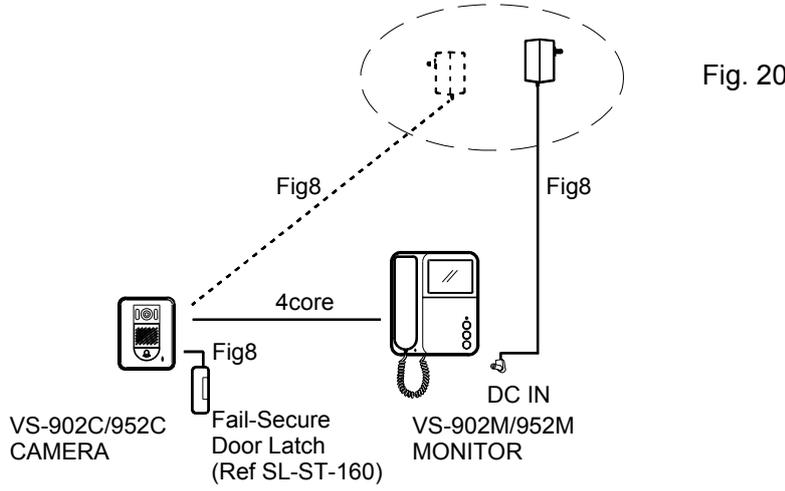
- < 50M :
14/020 (0.44mm²) shielded cable (connect shield to 2W)
AND
RG-59/U for video signal (connect core to 3Y & shield to 2W)

- < 100M :
24/020 (0.75mm²) shielded cable (connect shield to 2W)
AND
RG-59/U for video signal (connect core to 3Y & shield to 2W)

- > 100M :Contact your supplier

NOTE : Fig 8 = 2Core 24/020 (0.75mm²/Core)

Cable requirement – Daisy Chain (loop-in-loop-out) wiring method



MEMO

MAINTENANCE

1. All components should be protected from violence vibration, impacting, knocking and dropping.
2. If necessary, clean the lens and screen with dampen soft cotton cloth do not use chemical clean agent.
3. Image distortion may occur if the monitor is installed near microwave ovens, TVs, computers, DC/AC adaptors or any other electro magnetic field generating appliances.
4. Keep away all monitors and cameras from high temperature, dust, caustic and oxidation gas.
5. Use only the power supply which is supplied by the manufacture.
6. Pay attention to the high voltage inside the products. Please ensure this unit is only serviced by qualified professionals.

TECHNICAL SPECIFICATIONS

1. Talk auto-off time: 90 seconds
2. Power supply for indoor monitor
16V DC : Ref.VS-902M, VS-952M
240 AC : Ref.VS-902PM, VS-952PM
3. Power for outdoor station: 12V DC (Supplied by indoor monitor)
4. Power for video phone (Ref.VS-902H): 12V DC (Supplied by monitor)
5. Power consumption: Standby 0.5W, Max. 15W
6. Indoor monitor screen: 4" B/W CRT (Ref.VS-902, VS-902PM) or 4" colour TFT LCD (Ref.VS-952M, VS952PM)
7. Camera Lens: 3.6mm, 72 degree horizontal visual angle
8. Image sensor : 1/3" CCD
9. Resolution: >300 TV lines
10. Video signal: 1Vp-p, 75Ω, CCIR standard
11. Connection mode: 4 wire, polarity conscious
12. Surveillance auto-off time: 30 seconds
13. Door latch operation time : 3seconds by single click or "press & hold" for longer time

WARRANTY STATEMENT

This equipment is warranted to be free from defects in material and workmanship for a period of twelve months from the date of purchase as indicated on the proof of purchase and/or by serial number on the product.

Defective units returned by the purchaser at his own expense during this period will be required (or replaced at the option of the distributor) with an equivalent piece of refurbished and tested equipment. The repaired or replaced equipment is then warranted for the balance of the initial warranty period or for thirty (30) days, whichever is longer.

The repair or replacement will be without charge provided that the equipment has not been subjected to electrical or physical misuse or to unauthorised repair or modification.

The foregoing warranty is in lieu of all other warranties, express or implied, including, but not limited to, merchantability or fitness for a particular purpose.

The purchaser's exclusive remedy with respect to any and all losses or damages resulting from any cause whatsoever, shall be repair or replacement as specified above.

Distributor shall in no event be liable for any consequential or incidental damages, however occasioned, whether by negligence or otherwise. No suit or action shall be brought against manufacturer more than one year after the accrual of the cause of action therefore. No agent, employee or representative of the distributor nor any other person is authorised to modify this warranty in any respect. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.