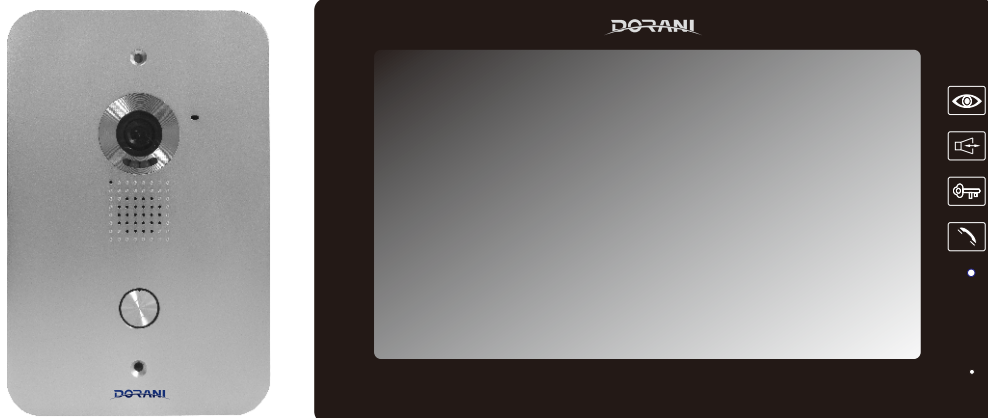# DORANI
DORANI LIMITED

7" COLOUR VIDEO INTERCOM SYSTEM

600 SERIES

Memory & Non-Memory Models

INSTALLATION AND USER GUIDE

WWW.DORANI.COM.AU

Dorani (PJM Sales) – 03 9357 0942

4/1 Merri Concourse, Campbellfield, Victoria 3061

SPECIFICATIONS

WIRING
Distance:
Door to Furthest Monitor   70m (Max)

Recommended Cable Type:
Signal Wires   Cat 5
Power   14/020 Figure 8

Note: Cable diameter required is 0.5mm^2 per signal conductor
        When using Cat 5 Join 2 conductors per signal wire

Configuration: Looped
Door Station – Monitor 1 – Monitor 2 – Monitor 3 – Monitor 4

Each Monitor is individually powered

7" TFT MONITORS
Max Per System   4
Power Voltage   15V DC
Current Draw   700mA
Dimensions mm (W,H,D)   200x125x22

DOOR STATIONS
Max Per System   2
Current Draw   280mA
Dimensions mm (W,H,D)   Surface   91x130x41
                          Flush (finished on wall)   130x200x3
                          Back Box   106x165x40
IP Rating   IP55

GATE RELEASE
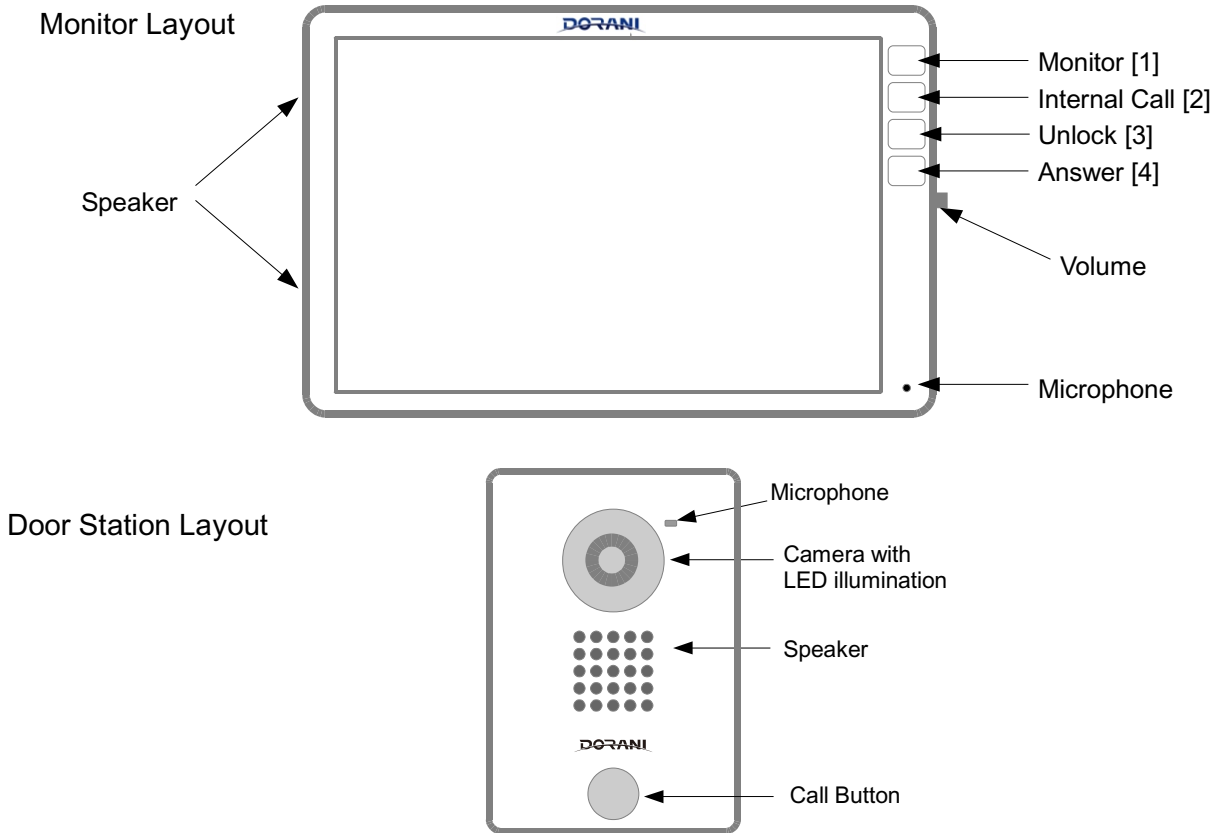Relay Contact Only   NO/C
Rated Voltage   12VDC
MAX Current   1 Amp
Release Time   5 Seconds

PICTURE MEMORY – (Models fitted with Memory feature ONLY)
Storage Location/Viewing   ALL Monitors
Memory Capacity   50 Still Images

OPERATING INSTRUCTIONS

Monitor Layout

Monitor [1]
Internal Call [2]
Unlock [3]
Answer [4]

Speaker

Volume

Microphone

Door Station Layout

Microphone
Camera with LED illumination
Speaker
Call Button

Visitor Communication

To Place a Call from front station - Press Call Button and chime is heard at Door station and Internal Monitors – The Picture will be displayed automatically on the monitors.

Answer the Call by Pressing the Answer [4] button ONCE, communication is active for approximately 120 seconds.

To cancel communication press Answer [4] button again

Monitoring of door station can be achieved by pressing Monitor [1] button ONCE to display the image, to communicate press the Answer [4] button ONCE.

Door Unlock

If a locking device is installed, you can now press the Unlock [3] button ONCE to activate the lock.

Internal Calling (Monitor to Monitors)

To Call ALL internal monitors from another monitor,press Internal Call [2] button ONCE, a Chime will be heard at other monitors, Reply by pressing Answer [4] button ONCE, communication is now active, press Answer [4] button again to cancel communication.

Volume Control

Slide internal monitor switch up/down for High & Low Volumes

Picture Memory – (Models fitted with Memory feature ONLY)
Images Available on ALL Memory monitors

Press Answer [4] button to bring up last recorded picture

Scroll through pictures using buttons [2] & [3]

To Delete recorded picture press button [1], Delete will flash, Press button [1] again to confirm deletion.

To exit Press button [4]

Complete erasure of pictures can be done in Main Menu (Must be in Standby to access Menu)
Hold down button [4] for 5 Seconds to activate menu.
Scroll using button 4 to desired location, Press button [3] to enter delete process.
Press button [4] to confirm deletion. (Deleting will appear on the screen)
Press [1] to exit.

Setting Date and Time
(Must be in Standby to access Menu)

Press and Hold Answer [4] button for 5 Seconds to activate menu. Press Answer [4] button to scroll down to Date and press Lock [3] button.
Year will be flashing – Set Year by Using buttons [2] + [3]
Press [4] to jump to Month Set by Using buttons [2] + [3]
Press [4] to jump to Day Set by Using buttons [2] + [3]

Time is set in same manner as Date

Brightness and Contrast
(Must be in Standby to access Menu)

Hold down button [4] for 5 Seconds to activate menu.
Scroll using button [4] to desired location, use buttons [2] & [3] to adjust, press button [1] to exit.

Optional Door Bell Function (See Diagram Page 6)

If Door Bell connector is used, a push button can be located that will allow the monitors to chime ONLY (no video or audio functions available). Upon pressing of doorbell chime will be heard at the monitors, this chime will cease automatically.

WIRING AND INSTALLATION
(Sample Diagrams Pages 5-6)

Note:
- Signal Cables are looped from monitor to monitor (Max 70m Door to furthest monitor)
- Monitors are powered individually
- Cat 5 is recommended cable, utilise 1 pair per signal conductor (Diagram 1)

Monitor Connections
Door Station 1   Door Station 2
Power

Terminal 1 =   Audio Signal
Terminal 2 =   Ground
Terminal 3 =   Voltage
Terminal 4 =   Video Signal

Additional monitors connect in common with Terminals 1-4 (Diagram 1)

2 Door stations require 2 separate trunk lines – cabled like 2 separate systems (Diagram 4)

Master Monitor Jumper
J1 = ON for 1st monitor in Loop, OFF all other times. (Refer Diagrams)

Video Termination – IMPORTANT
J2 = ON for Last monitor in Loop, OFF all other times. (Refer Diagrams)

Door Station Connections
Note: Door station provides clean set of contacts for lock release, separate power to be supplied if power unlocking is required.

Terminal 1 =   Audio Signal
Terminal 2 =   Ground
Terminal 3 =   Voltage
Terminal 4 =   Video Signal

RECOMMENDED TERMINATION SAMPLE (Diagram 1)
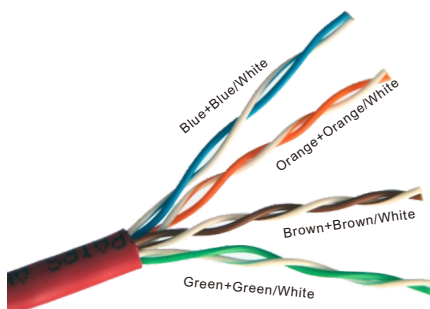
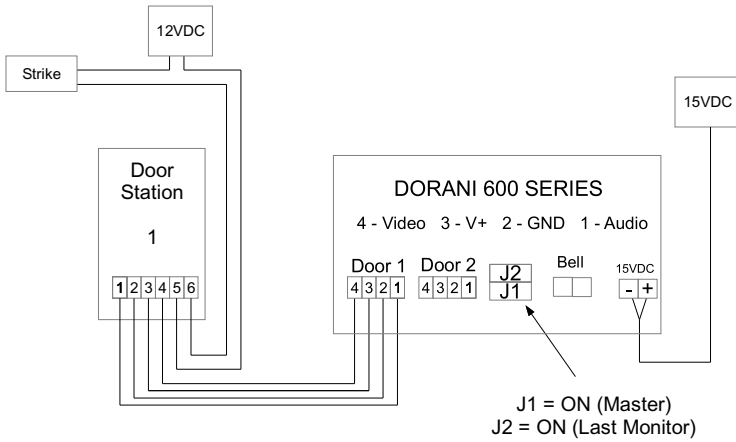Terminal 1 = Blue + Blue/White (Audio Signal , Blue Connector)
Terminal 2 = Green + Green/White (Ground, Black Connector)
Terminal 3 = Brown + Brown/White (Voltage, Red Connector)
Terminal 4 = Orange + Orange/White (Video Signal, Yellow Connector)

Each signal conductor = Colour + Mate

1 TO 1 WIRING SAMPLE (Diagram 2)

12VDC

Strike

Door
Station
1

1 2 3 4 5 6

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

Door 1   Door 2   J2   Bell   15VDC
4 3 2 1   4 3 2 1   J1   - +

15VDC

J1 = ON (Master)
J2 = ON (Last Monitor)

Recommended Cable:
Cat 5= 2 Conductors per 1,2,3,4

Max Distance Door to Last Monitor =70m

J1 = Master/Slave Configuration
ON - FIRST monitor in line
OFF - All Other monitors

J2 = Video Termination
ON - LAST monitor in line
OFF - All Other monitors

1 TO 4 WIRING SAMPLE (Diagram 3)

12VDC

Strike

Door
Station
1

1 2 3 4 5 6

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

Door 1   Door 2   J2   Bell   15VDC
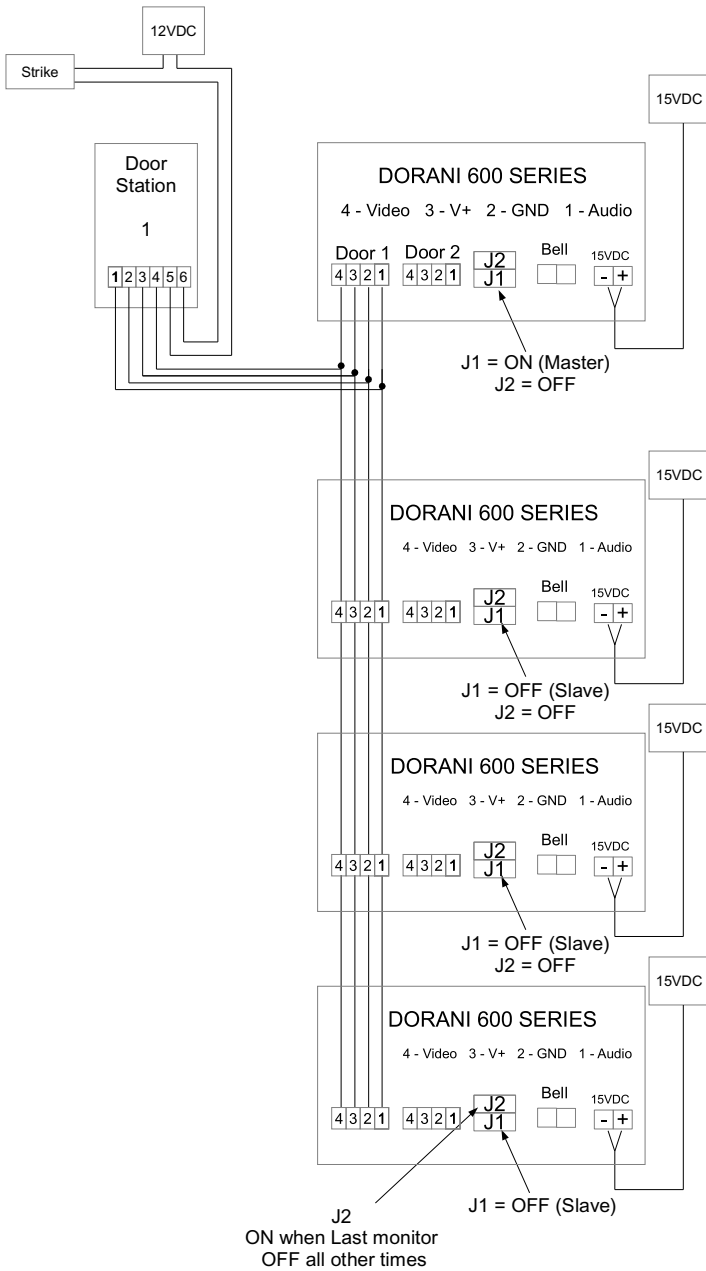4 3 2 1   4 3 2 1   J1   - +

15VDC

J1 = ON (Master)
J2 = OFF

Recommended Cable:
Cat 5= 2 Conductors per 1,2,3,4

Max Distance Door to Last Monitor =70m

J1 = Master/Slave Configuration
ON - FIRST monitor in line
OFF - All Other monitors

J2 = Video Termination
ON - LAST monitor in line
OFF - All Other monitors

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

4 3 2 1   4 3 2 1   J2   Bell   15VDC
                    J1   - +

15VDC

J1 = OFF (Slave)
J2 = OFF

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

4 3 2 1   4 3 2 1   J2   Bell   15VDC
                    J1   - +

15VDC

J1 = OFF (Slave)
J2 = OFF

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

4 3 2 1   4 3 2 1   J2   Bell   15VDC
                    J1   - +

15VDC

J2
ON when Last monitor
OFF all other times

J1 = OFF (Slave)

5

2 TO 4 WIRING (Diagram 4)

12VDC

Strike

12VDC

Strike

15VDC

Door Station 1

1 2 3 4 5 6

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

Door 1   Door 2
4 3 2 1   4 3 2 1

J2
J1

Bell   15VDC
- +

Door Station 2

1 2 3 4 5 6

J1 = ON (Master)
J2 = OFF

15VDC

4 3 2 1   4 3 2 1

J2
J1

Bell   15VDC
- +
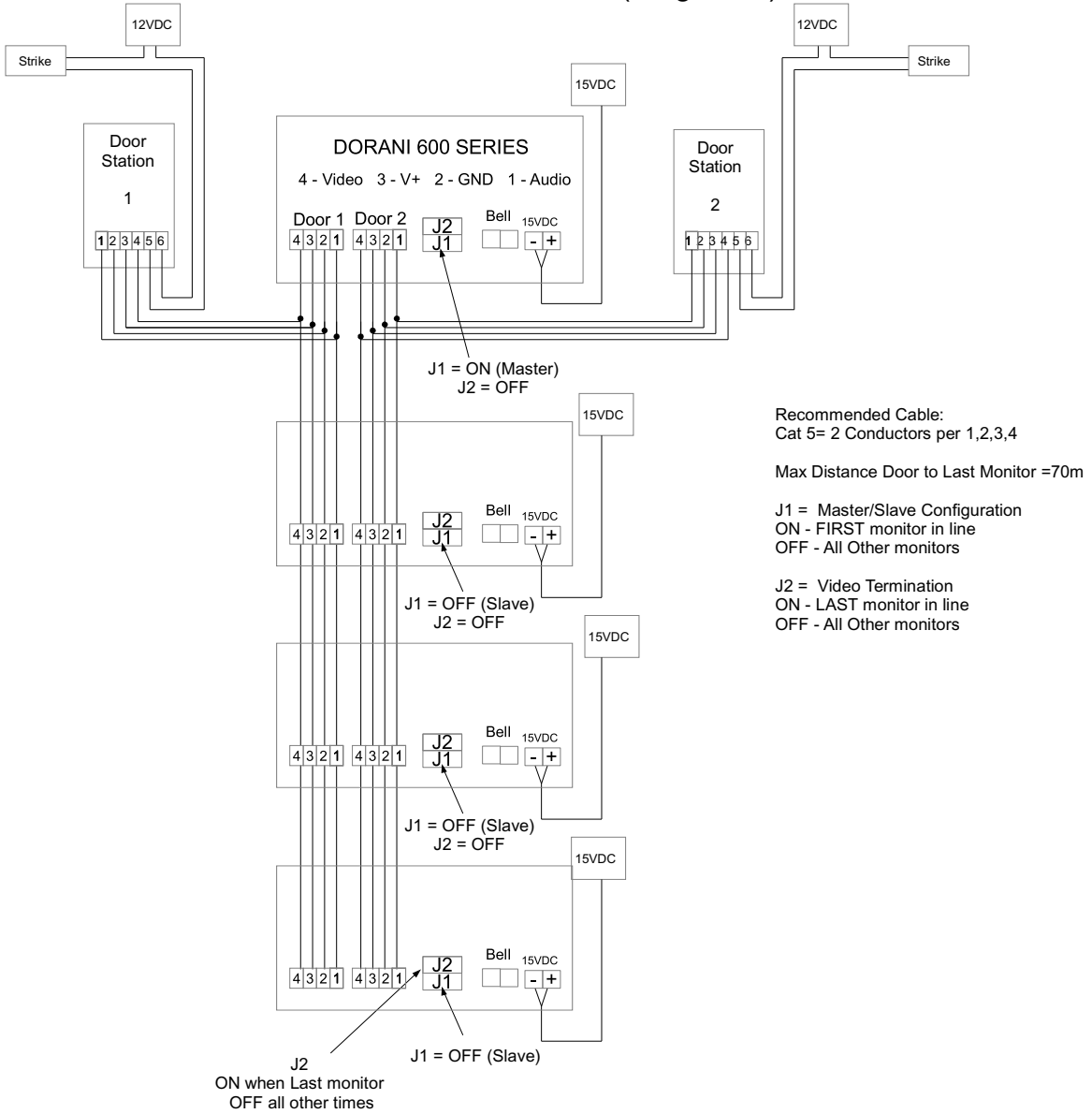
J1 = OFF (Slave)
J2 = OFF

Recommended Cable:
Cat 5= 2 Conductors per 1,2,3,4

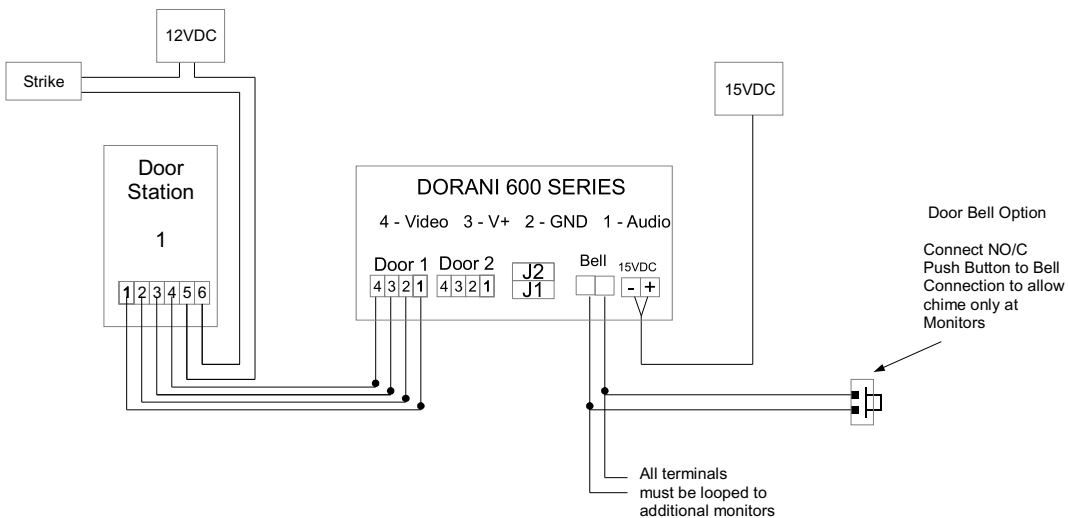Max Distance Door to Last Monitor =70m

J1 = Master/Slave Configuration
ON - FIRST monitor in line
OFF - All Other monitors

J2 = Video Termination
ON - LAST monitor in line
OFF - All Other monitors

15VDC

4 3 2 1   4 3 2 1

J2
J1

Bell   15VDC
- +

J1 = OFF (Slave)
J2 = OFF

15VDC

4 3 2 1   4 3 2 1

J2
J1

Bell   15VDC
- +

J2
ON when Last monitor
OFF all other times

J1 = OFF (Slave)

OPTIONAL DOOR BELL WIRING – CONNECTOR (Diagram 5)

12VDC

Strike

15VDC

Door Station 1

1 2 3 4 5 6

DORANI 600 SERIES

4 - Video   3 - V+   2 - GND   1 - Audio

Door 1   Door 2
4 3 2 1   4 3 2 1

J2
J1

Bell   15VDC
- +

Door Bell Option

Connect NO/C
Push Button to Bell
Connection to allow
chime only at
Monitors

All terminals
must be looped to
additional monitors

CONGRATULATIONS, on your new Dorani Video IntercomProduct

Dorani Video Intercoms pride themselves on providing innovative solutions in domestic, commercial and apartment video intercom systems.

We endeavour to provide all of our clients with the highest level of customer service, and ongoing product support.

We value your feedback; please see the product warranty details below

<u>Warranty</u>

All Dorani Video Intercom products come with a limited 24 months warranty from time of initial purchase.

Damage caused by incorrect installation, negligence, abuse or malicious damage is not covered.

Damage from power strikes, surges, insect or vermin damage is not covered.

If you have any queries on the warranty of your product please do not hesitate in calling your installer or local distributor found on our website dorani.com.au.

DORANI
DORANI LIMITED

WWW.DORANI.COM.AU

Dorani (PJM Sales) – 03 9357 0942
4/1 Merri Concourse, Campbellfield, Victoria 3061