

#### **500 Series Video**

Schematics, connection diagrams and installer's notes

For the system installed at:
By:

#### Contents

#### **Page Important** 3 Schematic and connection diagrams - examples One line system - looped wiring 4 Three way system - single run wiring 6 Six-way system - two riser looped wiring 8 Multi-door system using 500DCU door capture relays 10 Panel connections 12 Phone binary codes 14 Installer's notes 15 Telephones 4 Way Splitter **Power Supply** 1111 **Multi-button Entrance** Single button **Relay Unit** Unit. **Entrance** Unit Door Release. **Timeswitch Remote Camera** see pages 4/5 and see pages 6/7 DIP Switch Extension **Coded Access** Sounder see pages 6/7 789

see pages 4/5

\*\*\*

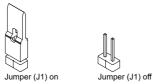
# **Important**

Entryphone 500 Series equipment is designed to enable video systems to be installed on standard audio wiring. The video, speech, signalling and power are on five common conductors to every part of the system.

#### There are two very important things that must be done to ensure a system works well.

 The video signal is balanced and therefore termination jumpers must be inserted at line ends or removed from mid-line equipment.

Schematics and wiring diagrams show when jumpers should be fitted.



NOTE: If, on test, a video screen seems over bright or washed out it is likely that the line has not been terminated properly, either a jumper is inserted mid-line or missing at the end of the line.

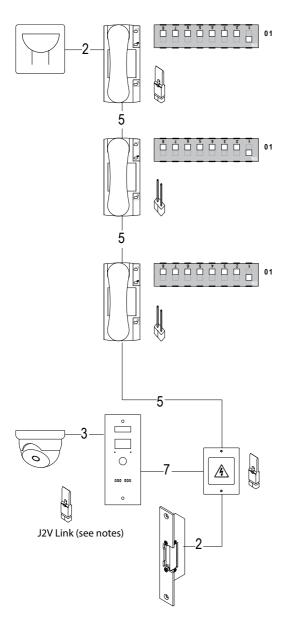
2. There are no individual call lines for the 500 series systems, instead each phone has a switch setting that should be set when the telephone is installed. The phone's address is set as a binary number on an eight way DIL (dual in-line) switch (up to 255 addresses available) fitted in each phone. When planning a system it is good practice to determine which address is to be assigned to which phone and noted on the numbering sheet on page 14 of these instructions. NOTE: 500 Series panels are pre-wired starting with 1 at the top.



#### **System Layout**

Whether installing a system on existing or new wiring it is best to determine the layout of the cabling and positions of the apparatus before starting the installation. There are a number of layout examples and their corresponding connection diagrams in this booklet.

Please make a note of the phone codes and sketch the layout of the system on pages 14 and 15 of this booklet. Leave this booklet with the installed system.

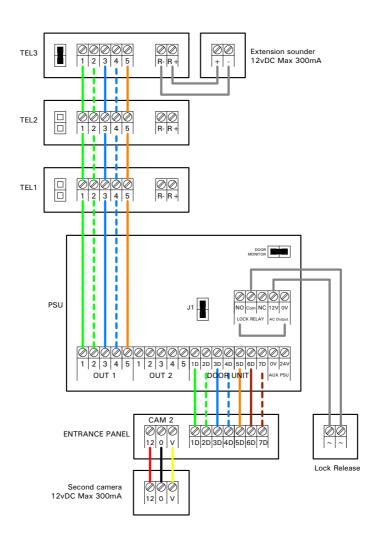


#### System Description One line system - looped wiring

A one-way system with two parallel phones with wiring looped from phone to phone.

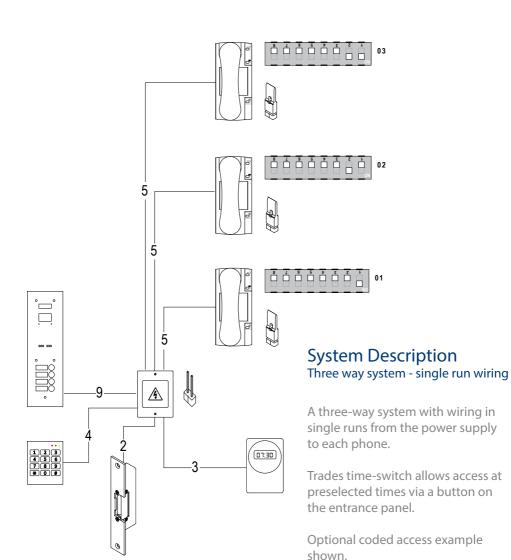
Second camera: There is an option to fit a second camera to the system. The camera should be connected to the 2nd camera terminals on the door amplifier printed circuit board (see page 12/13) and link J2V should be inserted. When the J2V link is inserted the cameras switch over every two seconds. The camera button on the phone will switch between cameras or lock view to one camera.

Single button panel's call address is set to 01.



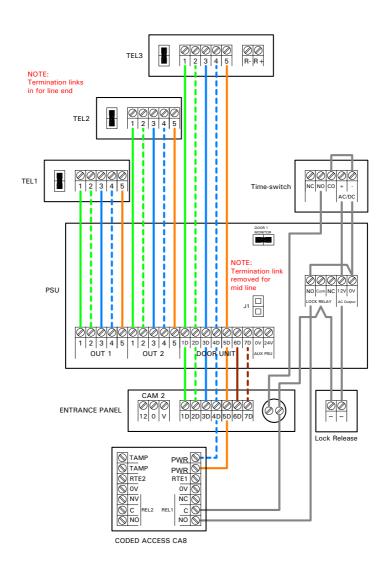
#### Key: line function

			4 24V-		6 Lock Data +	
GRN/	WHT/	BLU/	WHT/	ORG/	BRN/	WHT/
WHT	GRN	WHT	BLU	WHI	WHT	BRN



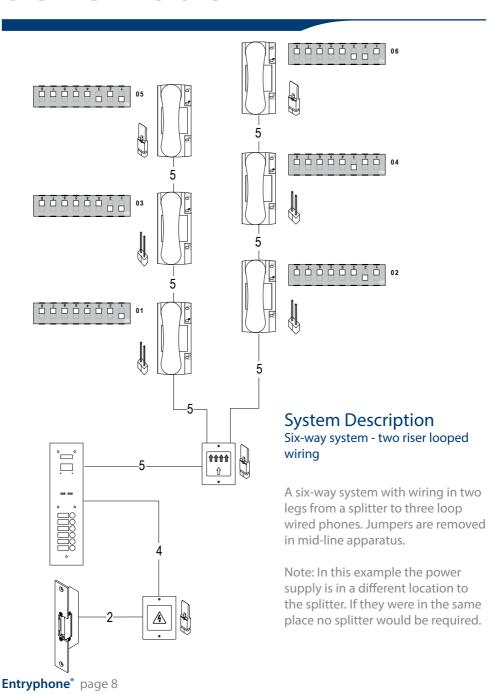
Note: In this example the link in the power supply is removed as the input terminals are mid-line.

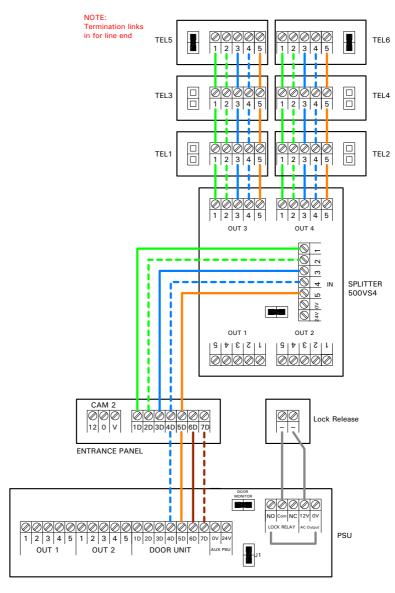
**Entryphone**° page 6



#### Key: line function

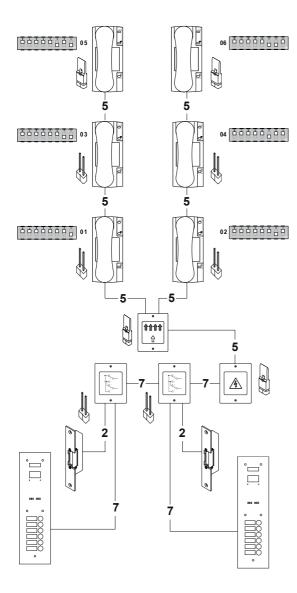
	2 Video +		4 24V-	5 24V+	6 Lock Data +	7 Lock Data -
GRN/	WHT/	BLU/	WHT/	ORG/	BRN/	WHT/
WHT	GRN	WHT	BLU	WHI	WHT	BRN





#### Key: line function

	2 Video +		4 24V-	5 24V+	6 Lock Data +	7 Lock Data -
GRN/	WHT/	BLU/	WHT/	ORG/	BRN/	WHT/
WHT	GRN	WHT	BLU	WHI	WHT	BRN



# System Description Multi-door panel video system using 500DCU door capture

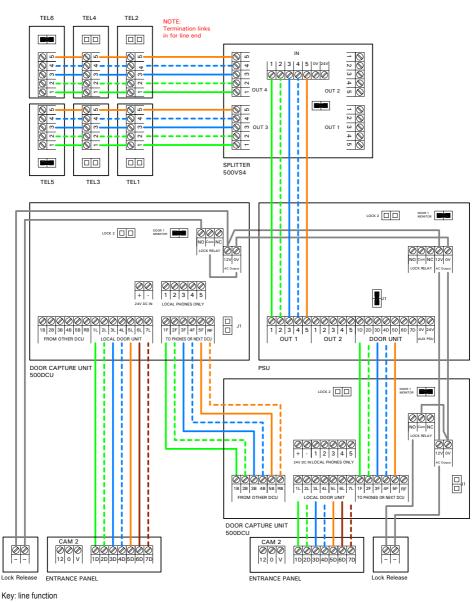
using 500DCU door capture relays.

The 500DCU relay unit enables any number of door panels to be fitted on a system.

When a button is pressed on any door panel the relay switches the circuitry on in that panel and sends a signal to turn off the other panels.

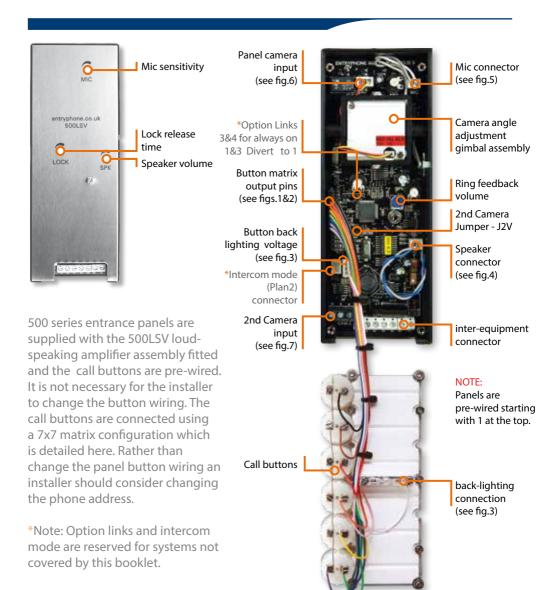
The system shown is a two door six-way system with wiring in two legs from the power supply/ splitter i.e. two runs of three loop wired phones from the two phone outputs in the power supply. The diagrams here show just two doors served but the DCU can be daisy-chained for additional panels.

Termination links (jumpers) must be removed in mid-line apparatus.



	2 Video +		4 24V-	5 24V+	6 Lock Data +	7 Lock Data -
GRN/	WHT/	BLU/	WHT/	ORG/	BRN/	WHT/
WHT	GRN	WHT	BLU	WHI	WHT	BRN

### Panel connections



# Panel connections

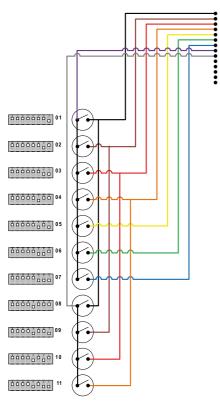


Fig.1 Matrix connection to buttons 1-11 shown

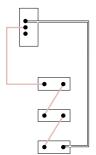


Fig.3 Back-lighting (note wired in series)

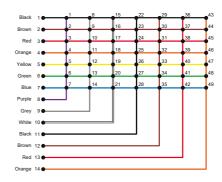


Fig.2
Matrix connection numbers 1-49



Fig.4 Speaker

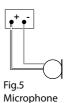




Fig.6
Panel camera

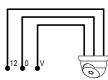
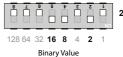


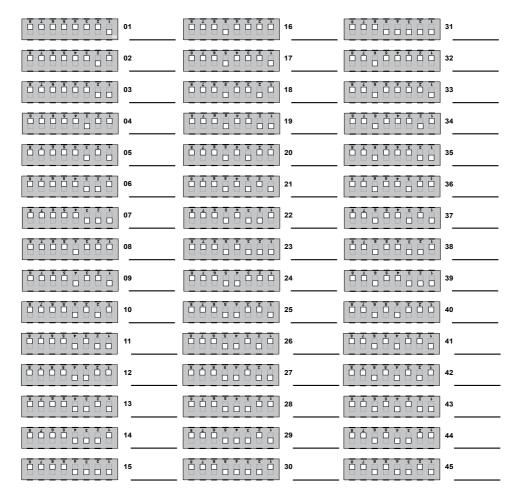
Fig.7 2nd Camera

# Phone binary codes

It is good practice to decide the layout of the system and the allocation of phone codes before starting an installation. Use the list below to indicate which code is assigned to which phone. Bear in mind the positions of the number or names on the entrance panel.

To work out the decimal value of the binary code add the decimal values of each switch together. This example shows switches 2 (binary value 2), 4 (binary value 8) & 5 (binary value 16) down. Therefore 2+8+16=26.





# Installer's notes

#### **The Entryphone Company Limited** 23 Granville Road,

23 Granville Road, London, SW18 5SD t: 020 8870 8635 f: 020 8874 0066 e: enquiries@entryphone.co.uk w: www.entryphone.co.uk