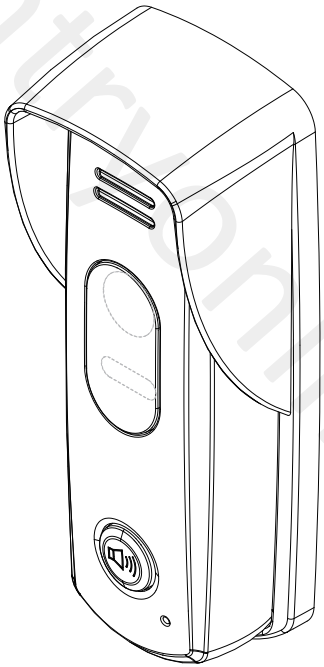
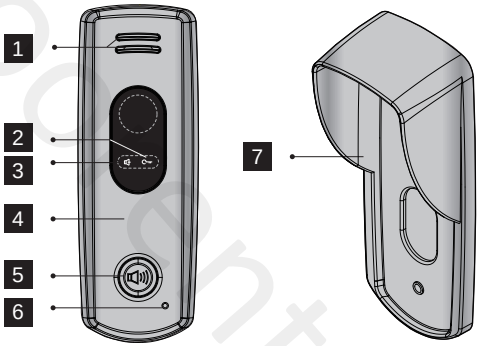
2-Wire Audio Entry System



ⓘ Read this manual carefully before using the product, and keep it safe for future use.

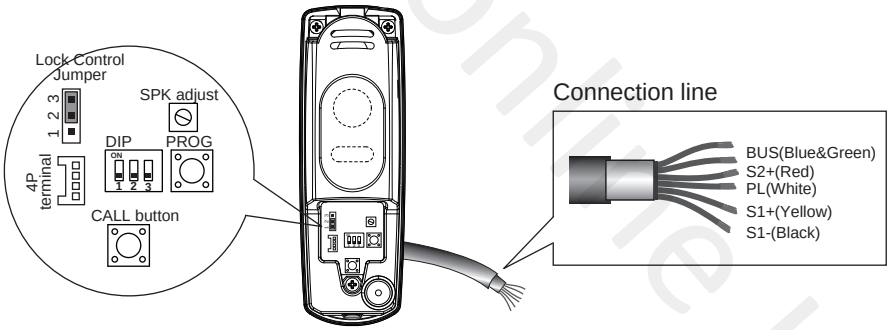
Parts and Function

The 595A audio door panel is designed for all DT 2-wire systems.
The front panel is made of zinc alloy for better protection against vandalism & cauterization, and the call button is also made of zinc alloy with blue backlight for auxiliary illumination, the unlock and talking LED indicator ensures the door panel is working efficiently.
With the rain cover, the door panel is strongly protected against the rain.



1 Speaker
2 Unlock Indicator
3 Talk Indicator
4 Front Panel
5 Call Button
6 Microphone
7 Rain Cover

Terminal Description



◆ ***Lock Control Jumper:*** to select the lock type. Please refer to Electric Lock Connection
◆ ***DIP switch:*** to set ID code for the door panel, total of 4 door panels can be connected. Please refer to DIP Switch Settings for additional door panels.
◆ ***SPK adjust:*** to adjust the talk volume.
◆ ***PROG button:*** reserved.
◆ ***CALL button:*** press to call the user.
◆ ***4P terminal:*** to update software via specified programmer. (Manufacturer only)
◆ ***Connection line:*** to connect the bus line and the electronic locks.
BUS (Blue&Green): connect to the bus line, non polarity.
S2+(Red): the S2+ connect with S1- to activate the relay of ERL to extend a camera of DT-CAM,

please refer to DT-CAM user instructions for details (Not available from Doorentryonline Ltd)
PL(White): external lock power input, connect to the power positive (power +).
S1+(Yellow): lock power(+) output.
S1-(Black): lock power(-) output.

Unit Mounting

The location of the door panel should be kept away from direct weather and all intensity light.

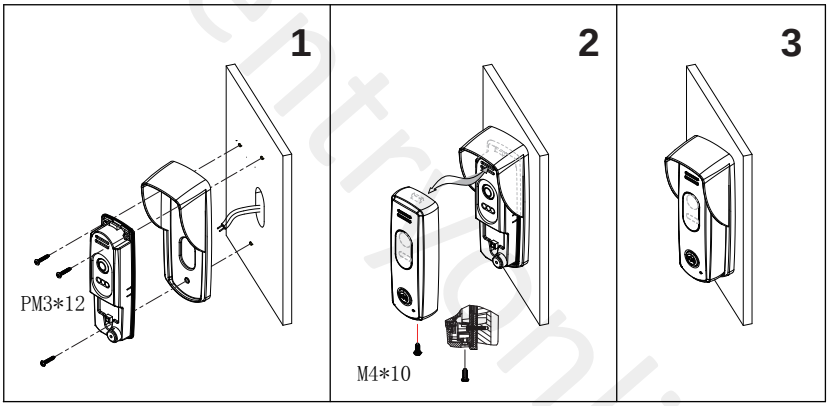
Accessory contents:

Accessories include a screwdriver T20, one M4X10 screw, two PA4X25 screws, three PA3x25 screws, three PM3x12 screws and five screw stoppers 6X30.

Installation steps:

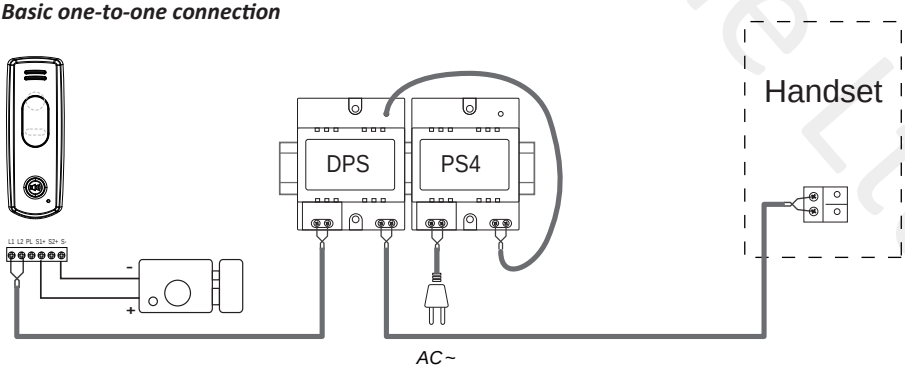
Installation height for the door panel is typically 145-160cm.

1. Use screws to fix the back panel and rain cover to the wall, then connect the cable correctly.
2. Attach the front panel to the back panel, then use the screw to fix it.



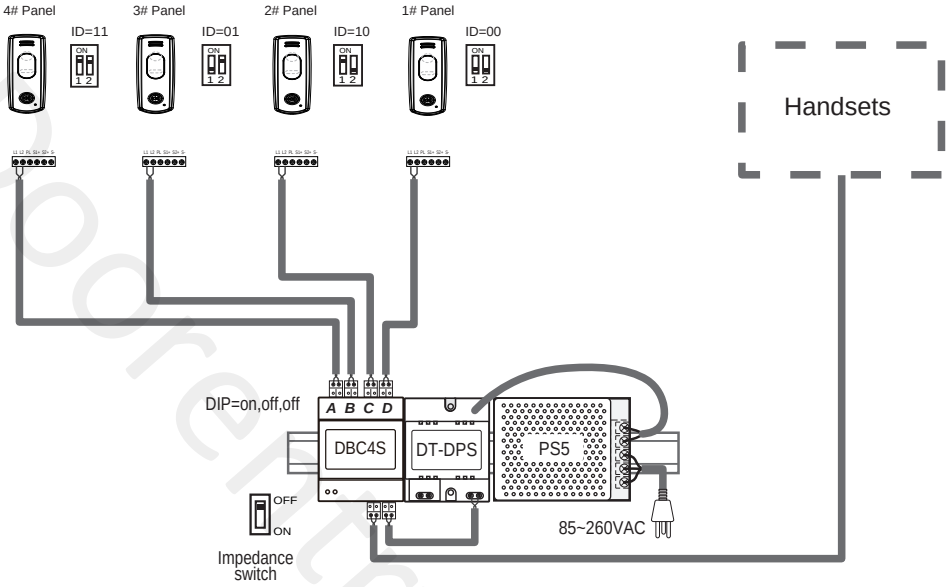
Wiring and Connection

Basic one-to-one connection



BUS(Blue&Green); S2+(Red); PL(White); S1+(Yellow); S1-(Black);

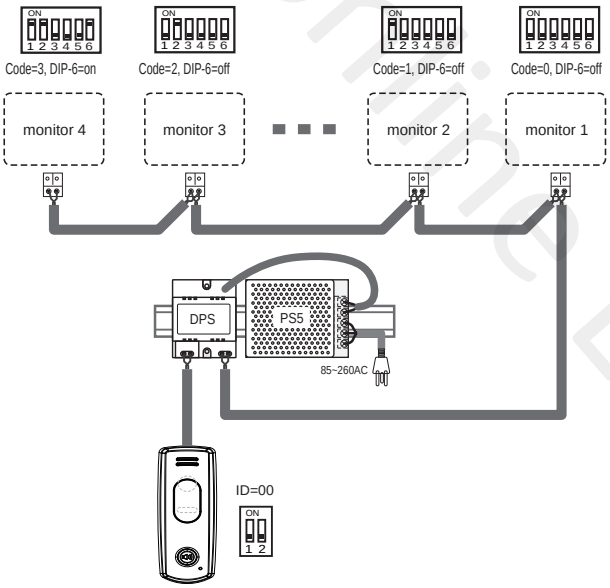
Multi Door Panel Connection



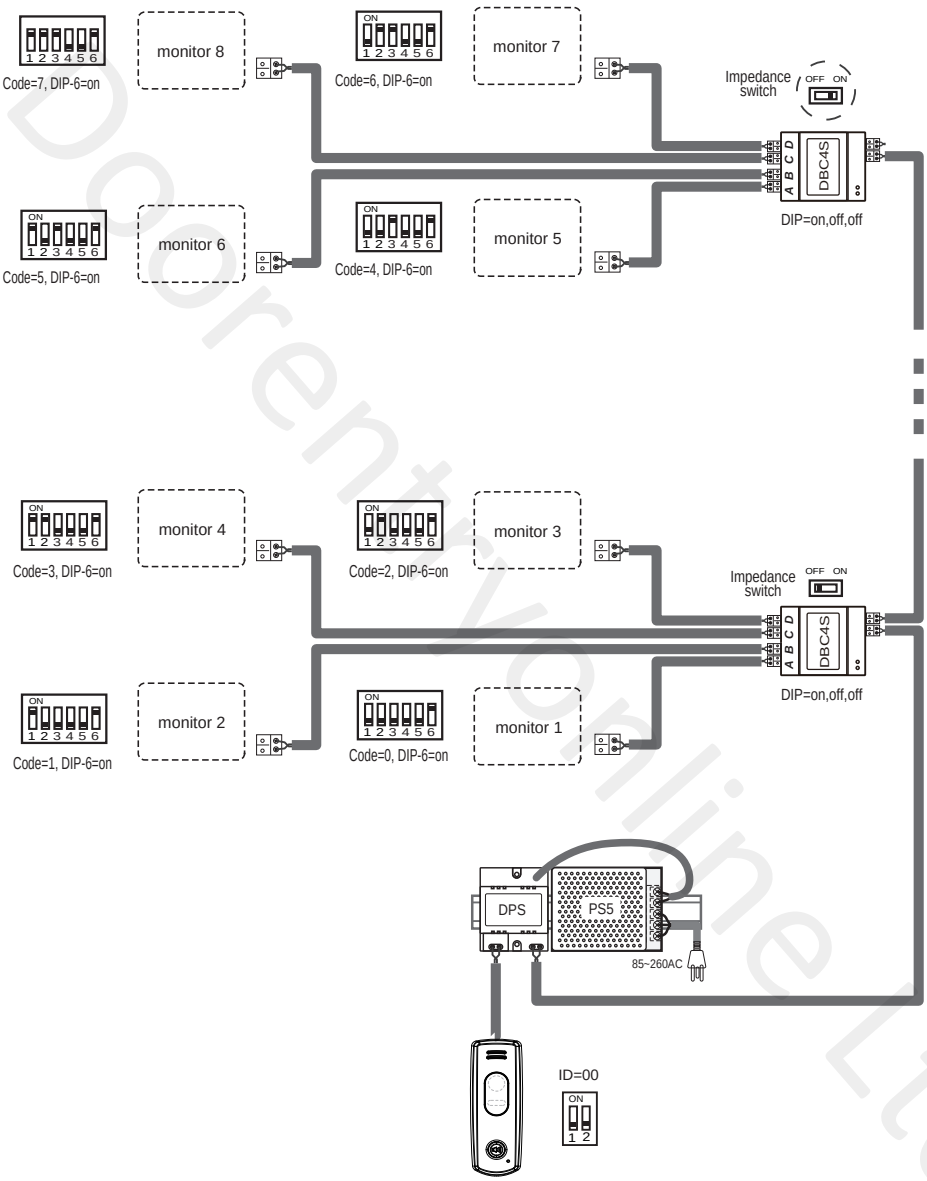
BUS (Blue&Green); S2+(Red); PL(White); S1+(Yellow); S1-(Black);

Multi Monitor/Handset Connection

Basic IN-OUT wiring mode

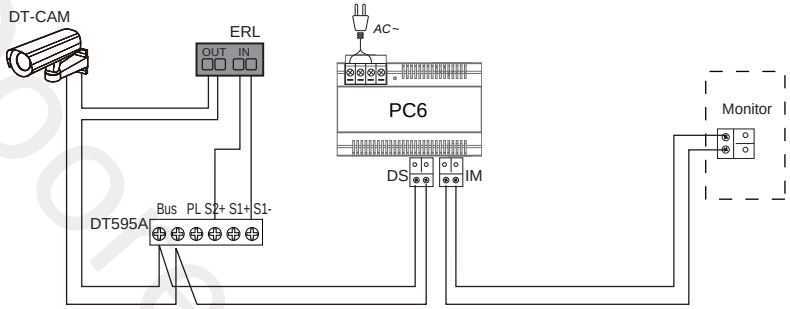


Multi Handset with DBC4S 4 way branch connector



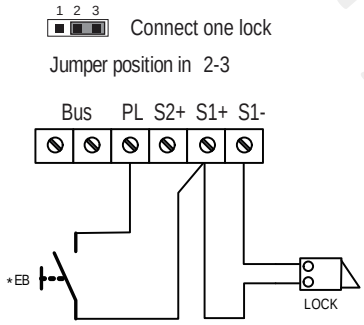
With DT-CAM wiring mode - NOT available from Doorentryonline Ltd

The audio door station DT595A can be extended an additional CCTV camera to be a video door station. For more details about the camera, please refer to DT-CAM user instructions.



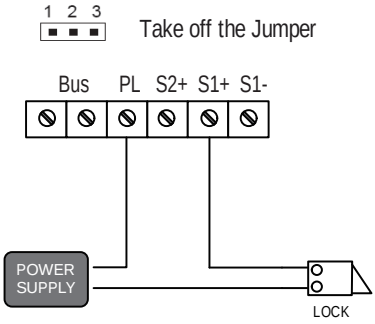
Electric Lock Connection

Door Lock Controlled with Internal Power



Note:
1. Electronic lock of Power-on-to-unlock type should be used.
2. The door lock is limited to 12V, and holding current must be less than 250mA.
3. The door lock control is not timed from Exit Button (EB).
4. The Unlock Mode Parameter on the Monitor must be set to 0 (This is default).

Door Lock release connected with additional power supply

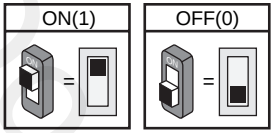


Note:
1. The external power supply must be used according to the lock.
2. The jumper must be taken off before connecting.
3. Setup the Unlock Mode of Monitor for different lock types.

* Power-on-to-unlock type:Unlock Mode=0 (This is default)
* Power-off-to-unlock type:Unlock Mode=1

DIP Switch Settings

The DIP switch is designed to set the code for door panel and monitor, there are two states for each DIP switch, please refer to the following:



Door panel DIP setting

Total of 3 bits can be configured, bit-1 and bit-2 are used to assign the ID code for the door panel, bit-3 is used to match the video impedance.The switches can be modified either before or after installation.

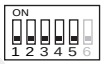
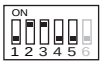
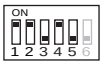
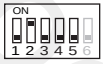
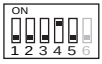
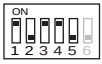
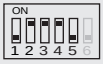
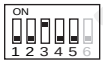
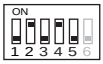
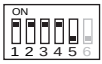
Bit state	Description
	ID = 0(00), set for the first door panel
	ID = 1(10), set for the second door panel
	ID = 2(01), set for the third door panel
	ID = 3(11), set for the fourth door panel

Note: if the video impedance needs to be matched, please set the bit-3 on.

Indoor monitor DIP setting

There are 6 bits in total. The DIP switches are used to configure the user code for Monitors.

Bit-6 is an video impedance match switch, which have to be set to ON if match the impedance, otherwise set to OFF.
Bit-1~Bit-5 are used to set the user code to the door panel, the user code should set from 0-15.
Please refer to the following settings:

Bit state	User code	Bit state	User code	Bit state	User code
	code=0		code=6		code=11
	code=1		code=7		code=12
	code=2		code=8		code=13
	code=3		code=9		code=14
	code=4		code=10		code=15
	code=5				

Specification

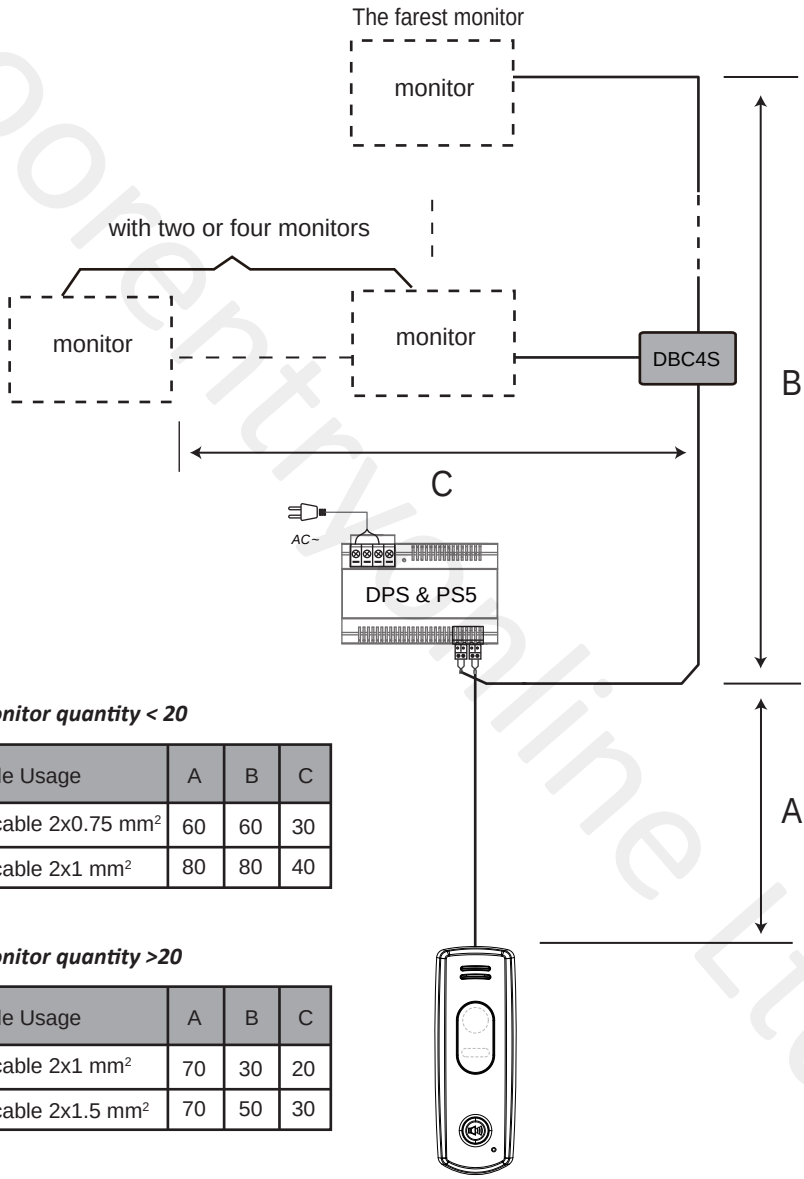
- Power Supply: DC 24V
- Power Consumption: Standby 60mA; Working status 200mA
- Lock Power Supply:12Vdc, 300mA (Internal Power)
- Working Temperature: -10ºC ~ +45ºC
- Wiring: 2 wires, non-polarity
- Dimension:137(H) x 49(W) x 28(D)mm

Precautions

• Please clean the unit with a soft cotton cloth, don't use organic impregnated or chemical cleaning agents.
If necessary, please use a small amount of pure water or diluted soap water to clean the unit.
• The unit is weather resistant, however do not spray high pressure water on the access control keypad directly. Excessive moisture may cause problems with the unit.
• You must use the right adaptor which is supplied by the manufacture or approved by the manufacture.
• Pay attention to the high voltage inside the products, please refer service only to a trained and qualified professional.

Cable Requirements

The maximum distance of the wiring is limited in the DT system. Using different cables may also affect the maximum distance which the system can reach.



When Monitor quantity < 20

Cable Usage	A	B	C
Twisted cable 2x0.75 mm^2	60	60	30
Twisted cable 2x1 mm^2	80	80	40

When Monitor quantity >20

Cable Usage	A	B	C
Twisted cable 2x1 mm^2	70	30	20
Twisted cable 2x1.5 mm^2	70	50	30