

English

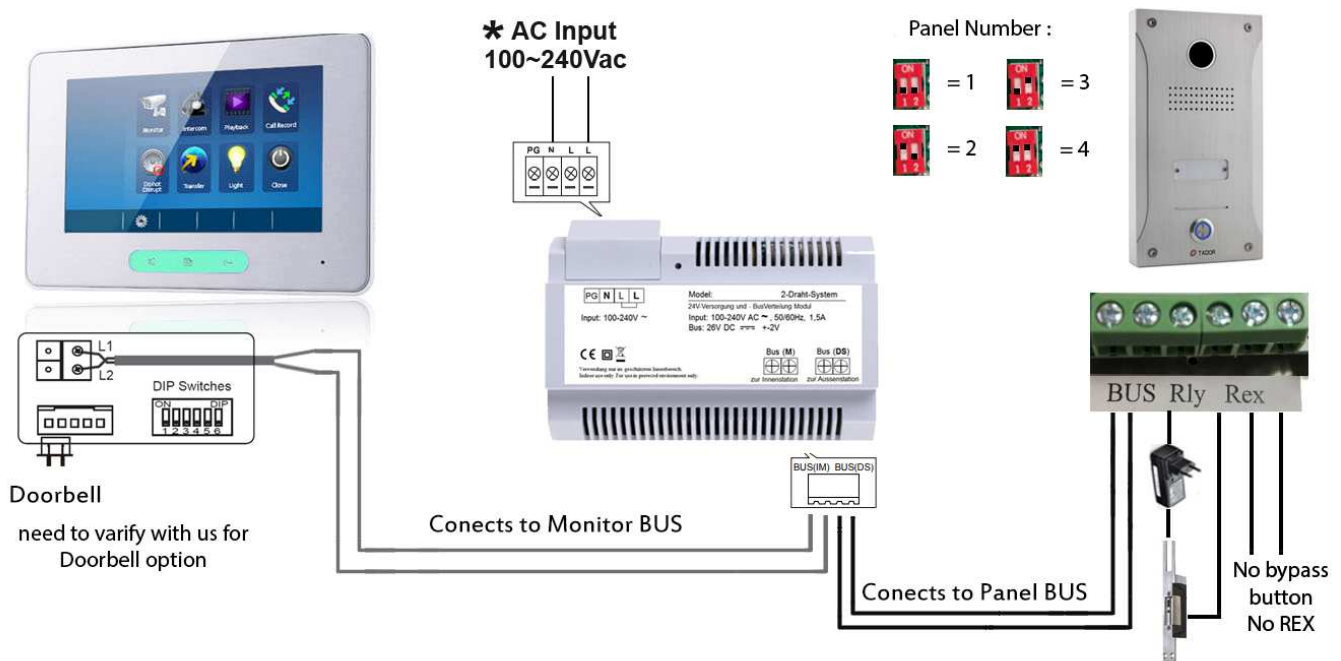
# TOPAZ

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## User Guide

### TOPAZ





## 1. General

Topaz Door entry system is Audio-Video door entry system 2 wires based for villa houses and apartments.

The system works on 2 wires and very easy to program and install.

It allows connecting up to 4 panels and 32 monitors.

The door entry panel is Anti-Vandal and made to work under hard weather conditions Allow to see the visitor and open the from the monitor by single click

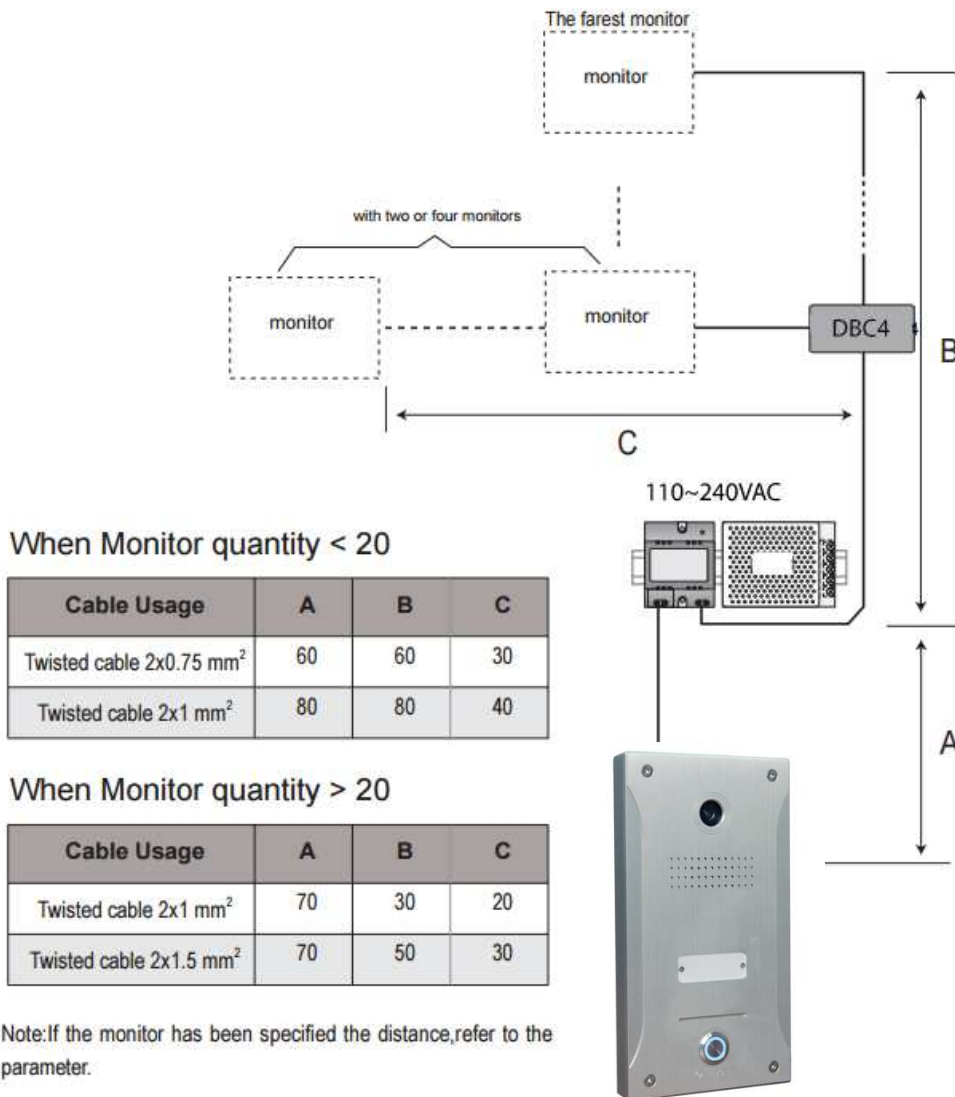
## 2. Specifications

Require 2 wires only	Can work with telephone calling with additional Tele adapter
Possible to connect 32 monitor for system	Can work with mobile calling with additional GSM adapter
Possible to connect 4 Panels for system	102 wide degree angle
Bypass Push button for door opening	Panel with 1/2/4 calling buttons available
Stand Hard weather conditions	

### 3. Power supply details

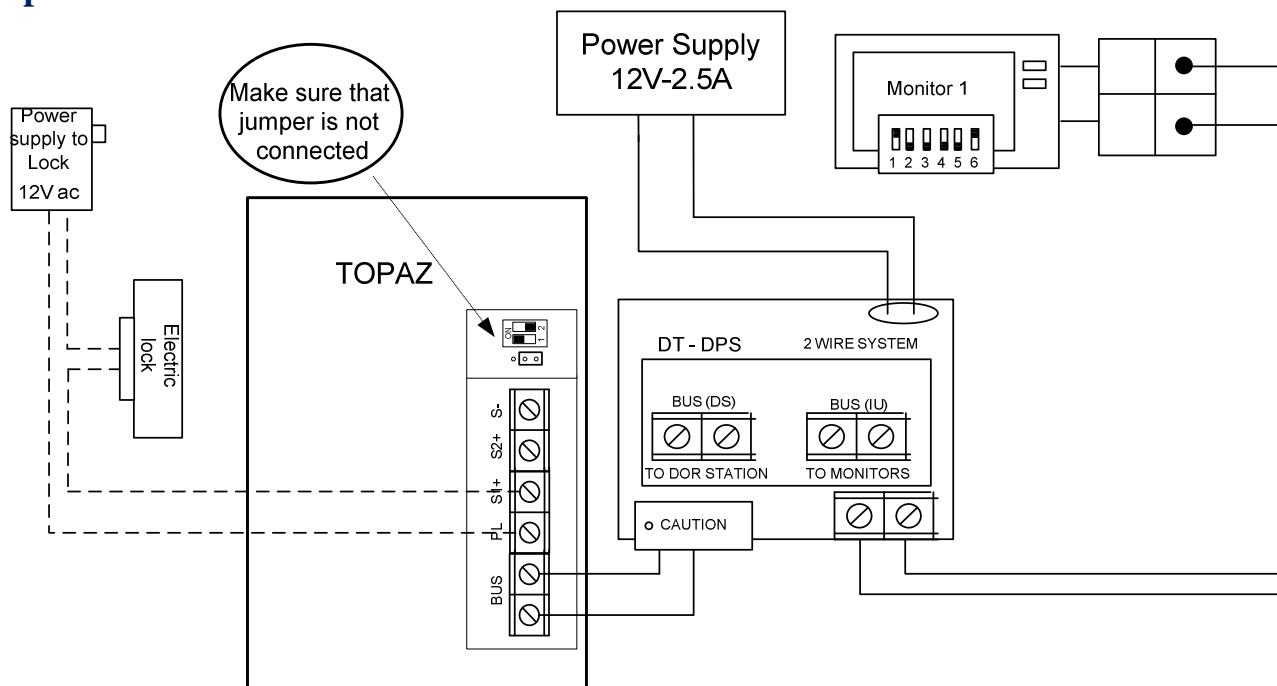
Operating voltage			
Transformer type	Description	Amount of monitors	Amount of Panels
Ns-100	24V 4.5A	Up to 3	1
Ns-150	24V 6.5A	Up to 7	+ 2
Ns-350	24V 14.6A	Up to 32	+ 3
Electric or magnetic Normally close and Normally open			Lock Type
Surface 213*116*36	Flush Mount 170*90*28	Sizes	

### 4. Cable Distance Information

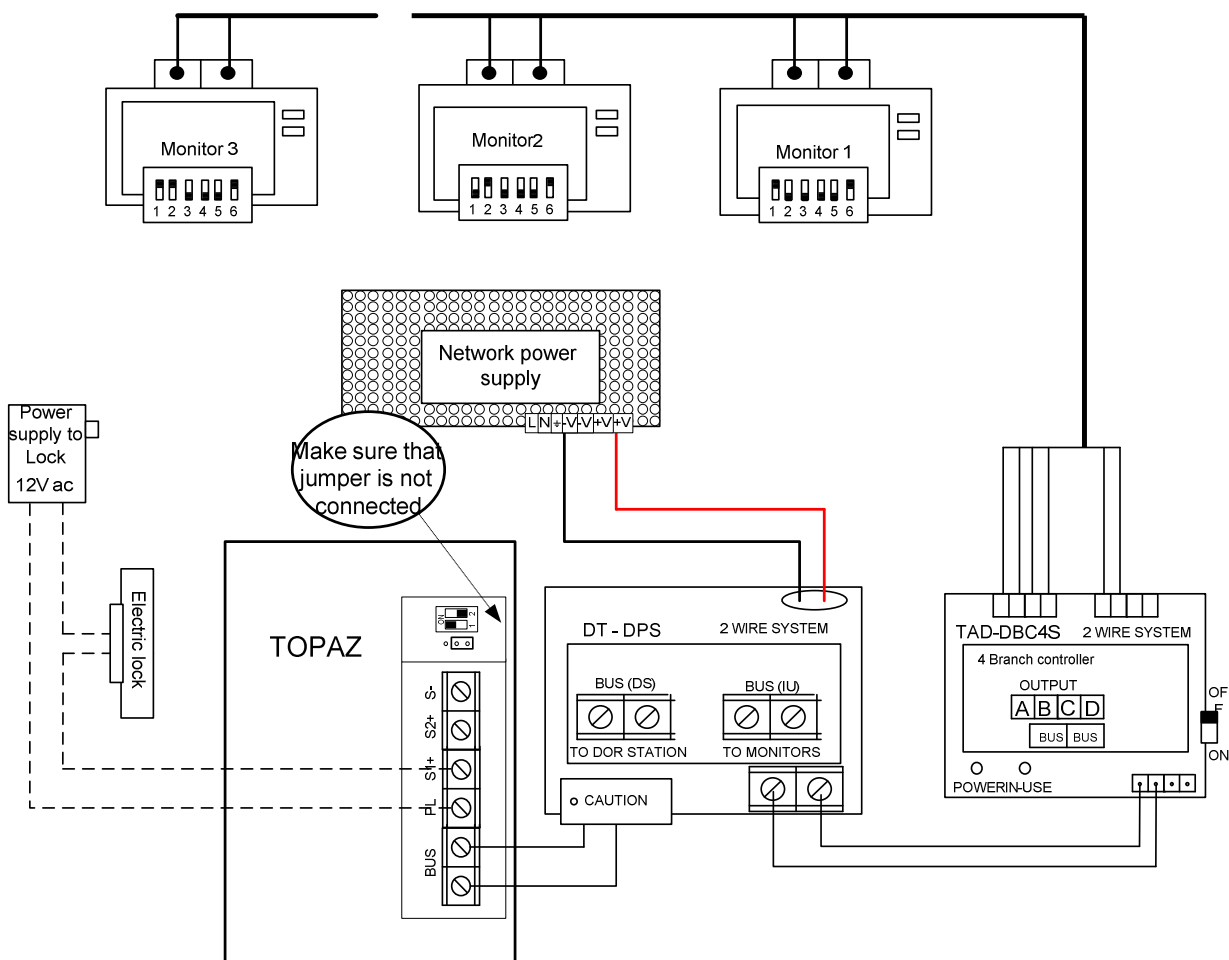


## 5. Installation diagram

### A. Topaz Panel + 1 Monitor



### B. Topaz panel + more than one monitor

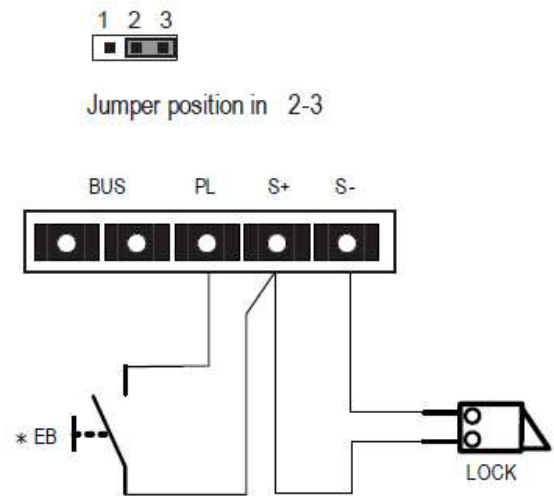


# Electric Lock Connection

## 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 of Monitor must be set to 0 (by default).

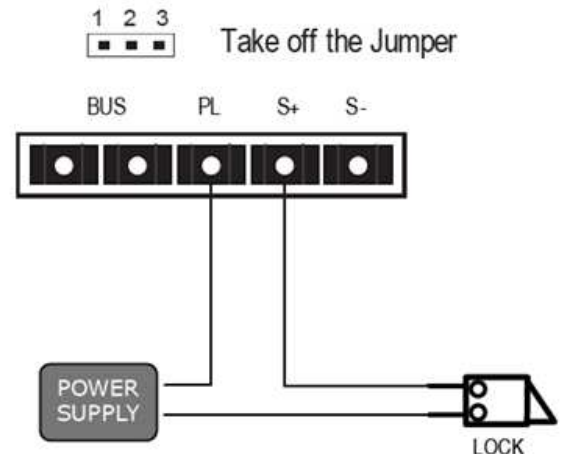


- **250mA, we advise to use external power supply for maximum results as 250mA is lock that made for small voltage and might be to weak for the system**

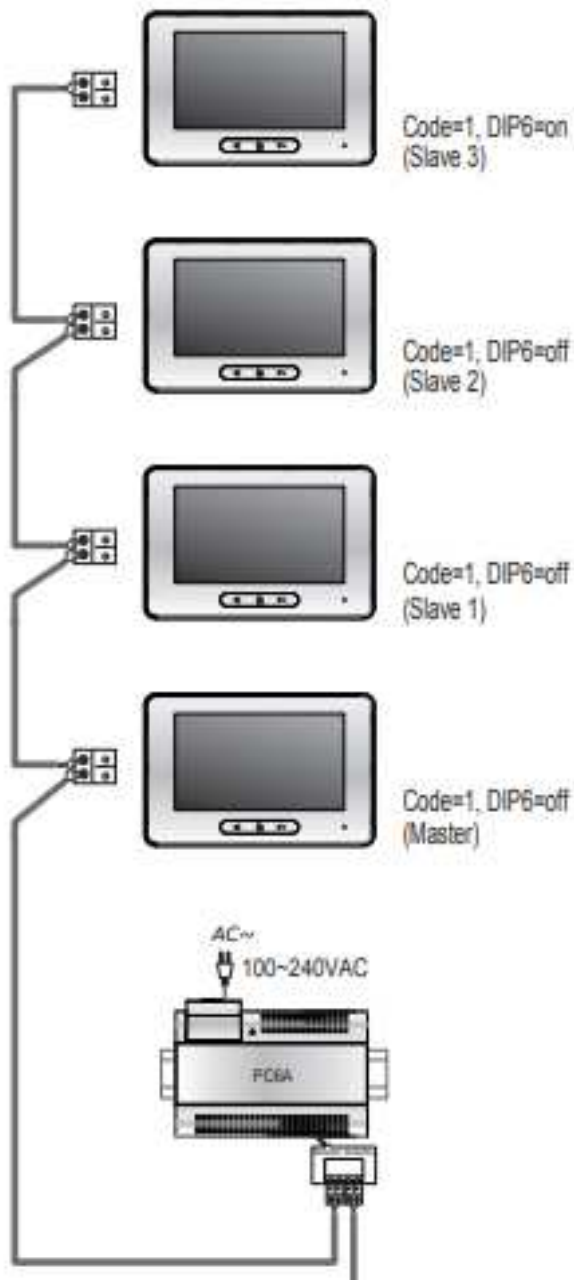
## Door Lock Controlled with Dry Contact

Note:

1. The external power supply must be used according to the lock.
2. The inside relay contact is restricted to AC or DC 24V/1A.
3. The jumper must be taken off before connecting.
4. Setup the **Unlock Mode** of Monitor for different lock types.
  - Power-on-to-unlock type:Unlock Mode=0 (by default)
  - Power-off-to-unlock type:Unlock Mode=1



## Basic IN-OUT Wiring in Standard Mode



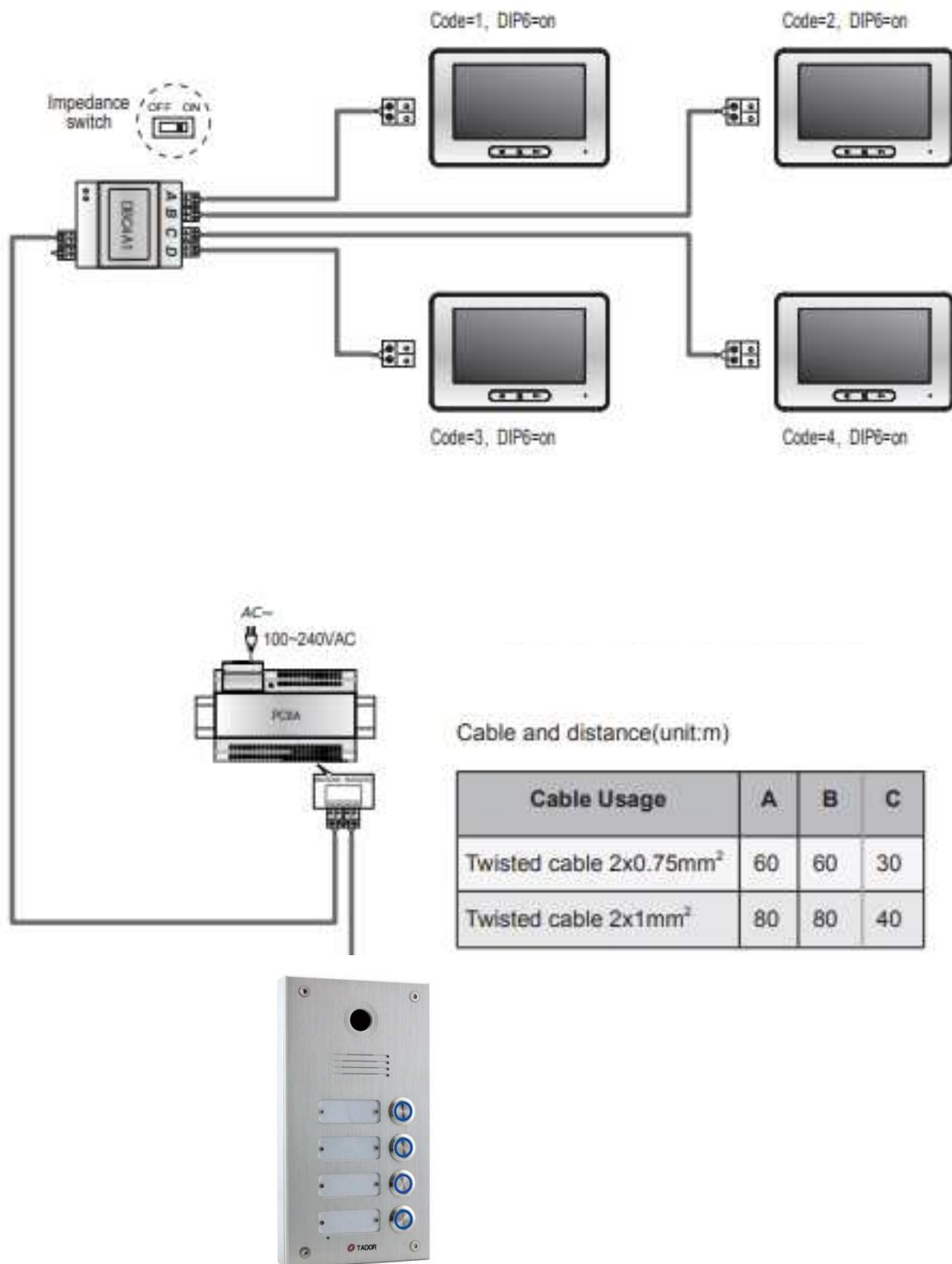
- The door station is also compatible with other monitors which are provided by our company.
- Please set door station into group calling mode if there is more than 4 monitors in villa(Refer to Page 9)
- Distributor is unnecessary in full audio system, and IN-OUT mode is recommended.
- For the last monitor connected to the system, DIP6 should set to **ON**.

Cable and distance(unit:m)

Cable Usage	A	B	B
		≤2 IM	≤16 IM
Twisted cable 2x0.75mm <sup>2</sup>	60	100	40
Twisted cable 2x1mm <sup>2</sup>	80	120	60



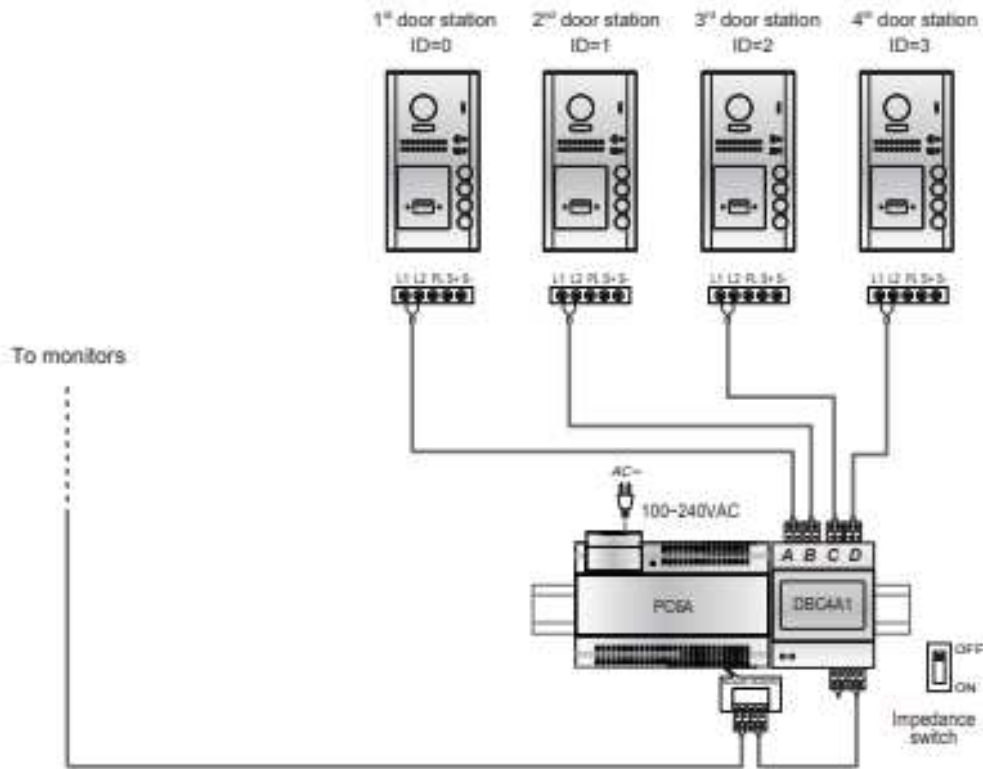
## Star Topology Wiring With DBC4A1 in Standard Mode



- The door station is also compatible with other monitors which our provided by Tador.
- It can be extended 3 slave monitors for each monitor ( Better use with extra distributor for extension )



## Connecting Multi Door Stations



- Max.4 door stations can be connected to the system.
- Ensure to set the correct address for each door station, Refer to Page 8 for more details about the address setting of door stations.

## FAQ:

### 1. Is it possible to connect system to large distance 400 ft?

Possible, but need to make sure below details during installation:

1. Good cable preferred twisted cable 2 x 1 mm
2. PC6A should be nearest as possible to the monitor inside the house.
3. Just to make sure, monitor need to get 24V, so if you can connected and check the power that arrives to the monitor is 24V it should be working  
this is why good cable is very important.

1. Bus from Monitor goes to PC6A
2. Bus from PC6A goes to the panel Bus
3. Relay : connects to electric lock in your situation you can connect it directly to gate command to open the gate
4. Rex : if want to install bypass button to open the door by pressing a button

### 2. Unit doesn't show Picture / Audio?

It may be a problem with infrastructure check below:

Disconnect the unit and connect again in a short distance between the monitor, panel and PC6A if unit show picture, there might be a problem with wires quality or distance.

- + Try to improve the cable quality
- + Try Reduce distance between PC6A and Monitor.





Thank you for buying one of our products

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