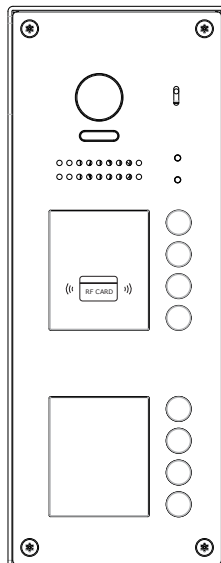


2 WIRE SYSTEM

CDV97-8ID Series

8 Button Door Station
With Proximity Access Control & Fish Eye Camera

USER MANUAL



CDV97-8ID

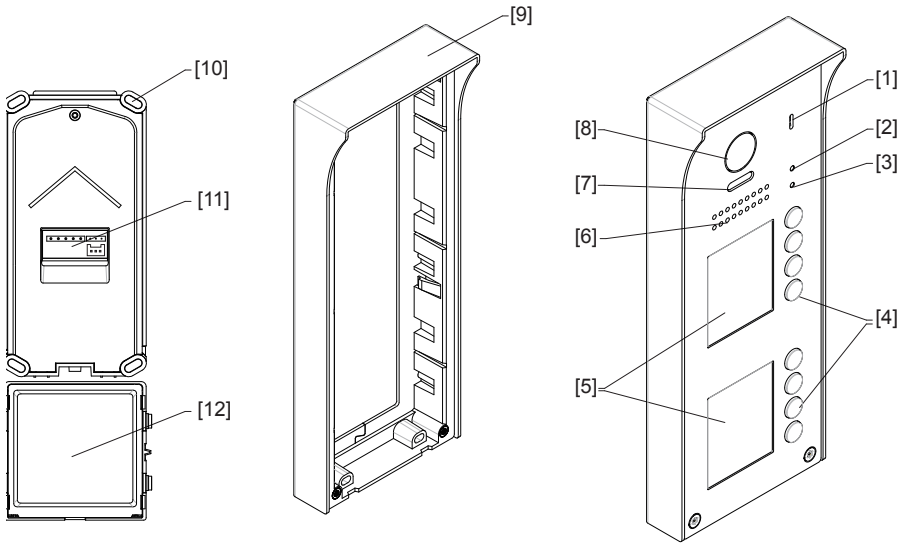
- Please read this manual thoroughly to ensure safe and correct operation.
- Please keep this manual safe for future use.

CONTENTS

PARTS AND FUNCTIONS	3
Part Names.....	3
Mounting.....	3
Terminal Description.....	4
BASIC FUNCTIONS	5
Unlock Operations.....	5
Fisheye Camera.....	5
SETUP INSTRUCTIONS	6
Functions Setting Up.....	6
Setting Door Station Address.....	7
Setting Camera N/P Standard.....	8
Setting Prompt Voice.....	8
Setting Prompt Voice Volume.....	9
Setting Unlock Mode.....	9
Setting Unlock Time.....	10
Setting Nameplate Illumination Mode.....	10
Setting Night View LED Illumination Mode.....	11
Setting Ring-back Tone.....	11
Setting Image Display Mode.....	12
Registering ID Card.....	13
Restore To Default.....	15
WIRING	16
Connecting Electric Lock.....	16
APPENDIX	17
Precautions.....	17
Specification.....	17
Cables and Requirments.....	18

PARTS AND FUNCTIONS

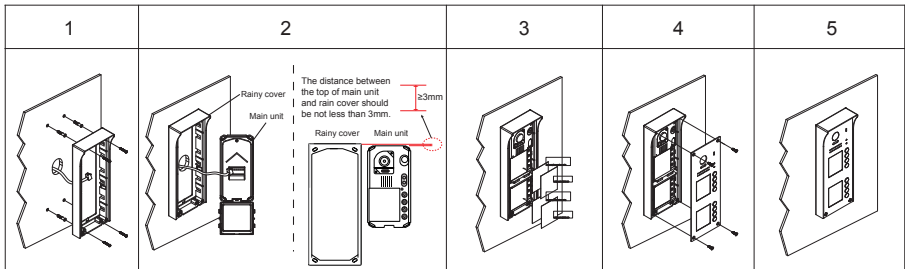
Part Names



- | | | | |
|----------------------|-----------------|--------------------|--------------------------|
| [1] Microphone | [4] Call button | [7] Night view LED | [10] Mounting holes |
| [2] UNLOCK indicator | [5] Nameplate | [8] Camera lens | [11] Connection port |
| [3] CALL indicator | [6] Speaker | [9] Rain cover | [12] External key module |

Mounting

The installation height is suggested to 145~160cm.

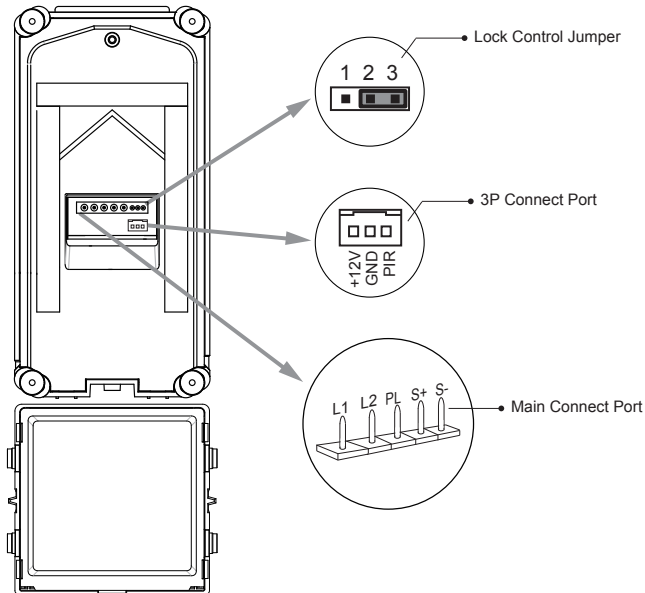


1. Drill holes in the wall to match the size of wall plugs, then attach the rain cover to the wall.
2. Connect the cable as per instructions and attach the main unit to the rain cover. The distance between the top of main unit and rain cover should not be less than 3mm.

PARTS AND FUNCTIONS

3. Install the name plate.
4. Attach the front panel to the rain cover.
5. Use the special screwdriver and the screws to fix the panel.

Terminal Description



Lock Control Jumper: To select the lock type.

3P Connect Port: To button module.

Main Connect Port: To connect the bus line and the electronic locks.

- **L1,L2:** Connect to the bus line, no polarity.
- **PL:** External lock power input, connect to the power positive(power +).
- **S+:** Lock power(+) output.
- **S-:** Lock power(-) output, connect to the power(-) input of locks(only when using the door station to power the locks, if using the external power supply for the locks, the S- will not be connected).

BASIC FUNCTIONS

Unlock Operations

Unlocking of ID Card

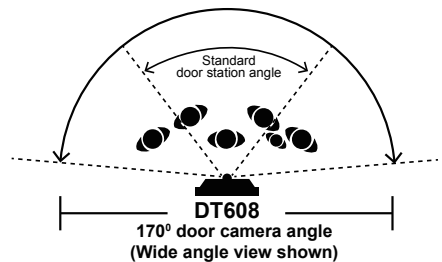
When the registered user card has been shown to ID card window, the UNLOCK indicator lights up, the buzzer sounds, and the electric door strike is unlocked.

- If show the authorized user card, the buzzer will sound of beep+, and the UNLOCK indicator will light up.
- If show the unauthorized user card, the buzzer will sound of beep, beep, beep.

Fisheye Camera

Please note that this function requires the monitor with fisheye function to support.

The angle view is 170°, visitors in this angle view can be seen clearly and can be zoomed to see individuals up close via indoor monitor with fisheye function.



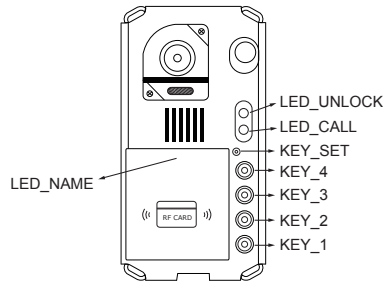
SETUP INSTRUCTIONS

Functions Setting Up

This section explains the settings of each function, please refer to the following table:

To perform the settings for the function you want, you should move away the metal front panel. Please refer to the sketch map.

Each operation is indicated by the lighting up of the **LED** indicator on the unit, and by the sounding of the buzzer.



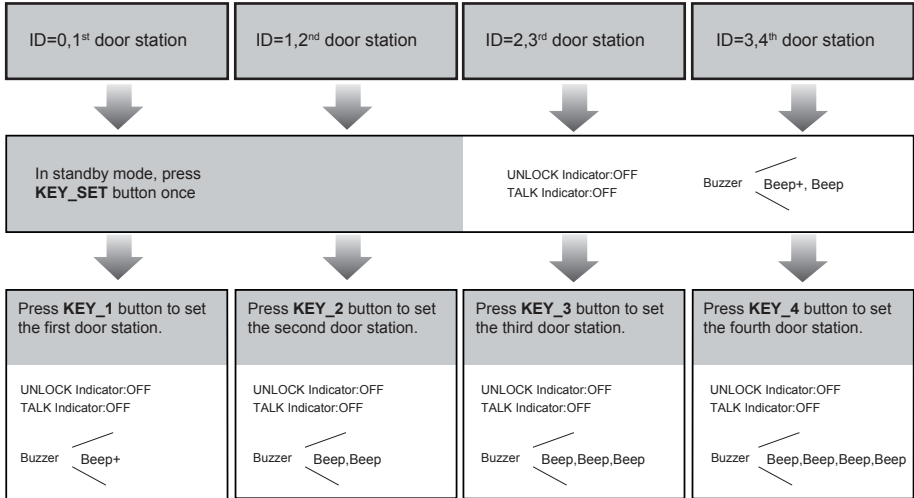
Main unit

Order	Setting items	Setting range	Default value
1	Setting door station address	0~3(DS 1 to 4)	0
2	Setting camera N/P standard	NTCS or PAL standard	PAL standard
3	Setting prompt voice	Max. 2 Settings - Off or On	Voice prompt On
4	Setting prompt voice volume	1~9	6
6	Setting the unlock mode	0 - Normally Open 1 - Normally Closed	0:opened
6	Setting the unlock time	01 to 99 seconds	5 seconds
7	Setting the nameplate illumination mode	On/Off/Auto	On
8	Setting night view LED illumination mode	On/Off/Auto	Auto
10	Setting ring-back tone	Ring once Ring continuously No ring-back tone	Ringing one time
10	Setting image display mode	Alternate switching mode Zoom mode Full screen mode	Alternate switching mode

SETUP INSTRUCTIONS

Setting Door Station Address

A of 4 addresses can be configured. The address can be modified either before or after installation. 0 (DS #1) is default, to change the address, please use the following steps:



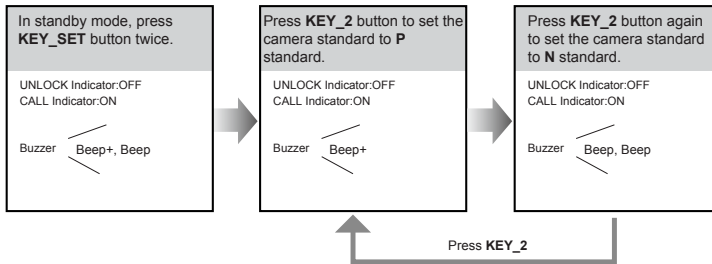
- While in the setting mode, the address of door station can be changed by pressing KEY1~4 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

SETUP INSTRUCTIONS

Setting The Camera NTSC/PAL Video Standard

The video standard of the camera can be changed at any time, that means the quality of image on screen can be set to differ.

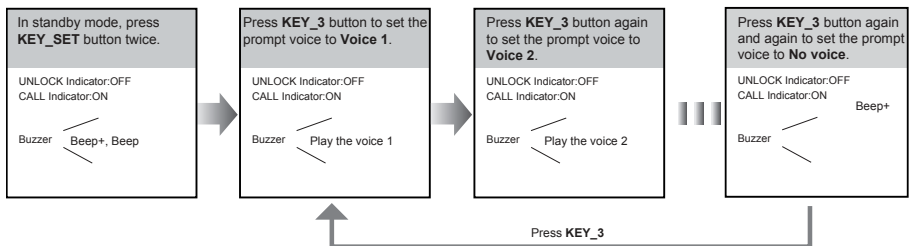
P (PAL) standard is default, to change the setting, please follow the steps:



- While in the setting mode, the calling mode can be changed by pressing KEY2 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

Setting Prompt Voice

There are 2 options Voice prompt on or off. **On** is default; to change the setting please use the following steps:

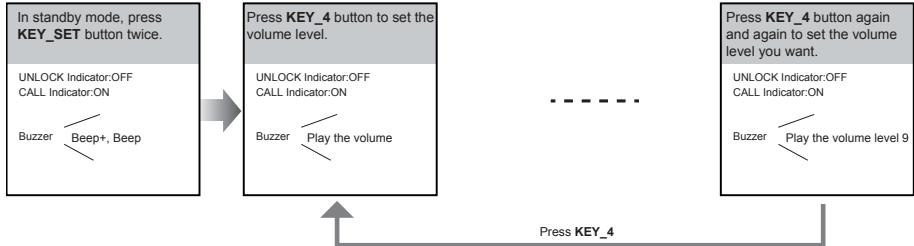


- While in the setting mode, the calling mode can be changed by pressing KEY3 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

SETUP INSTRUCTIONS

Setting Prompt Voice Volume

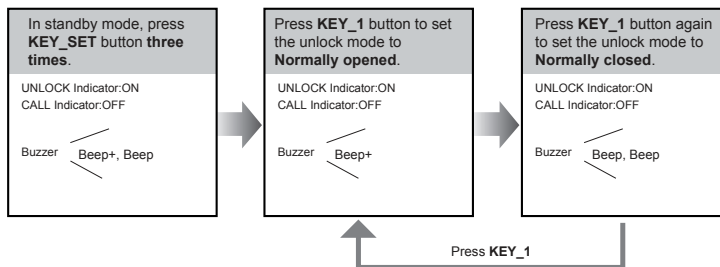
A 9 volume levels can be configured. The levels can be modified either before or after installation. 6 is default; to change the setting please use the following steps:



- While in the setting mode, the **volume level** can be changed mode by pressing KEY4 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

Setting The Unlock Mode

There are 2 unlock modes, **Normally open** and **Normally closed**. Normally opened is default, to change the setting, please follow steps:

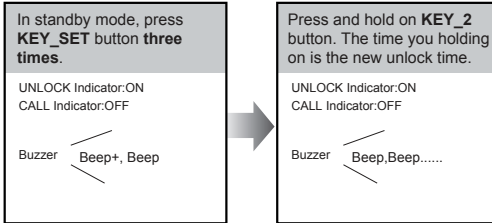


- While in the setting mode, the calling mode can be changed by pressing KEY1 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

SETUP INSTRUCTIONS

Setting Unlock Time

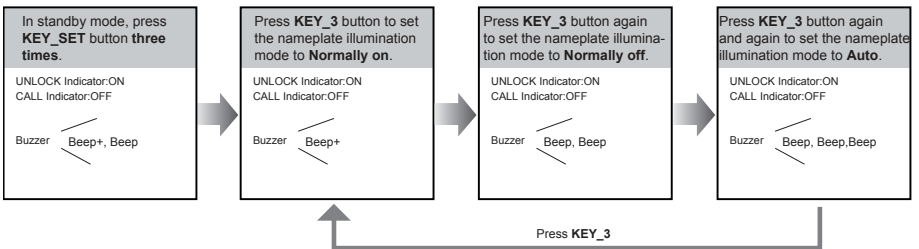
By default the unlock time is 1s, this can be changed from 1s~99s. To change the unlock time please use the following steps:



- When holding button 2 to set the unlock time, the buzzer will sound one time every second
- The **LED_NAME** indicator will flash continually while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- Press **KEY_SET** button twice to exit out the setting mode manually.

Setting Nameplate Illumination Mode

There are 3 illumination modes for nameplate indicator, **Normally on**, **Normally off** and **Auto**. Normally on is default, to change the setting, please follow the steps:

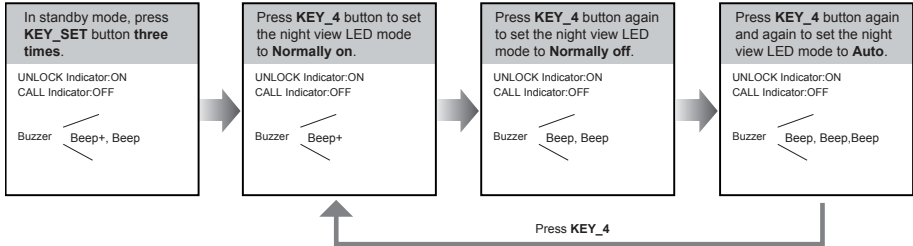


- If setting mode has not been exited, you can change the nameplate illumination mode by pressing **KEY3** cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

SETUP INSTRUCTIONS

Setting Night View LED Illumination Mode

There are 3 working modes for night view LED indicator, **Normally on**, **Normally off** and **Auto**. Auto is default, to change the setting, please follow the steps:

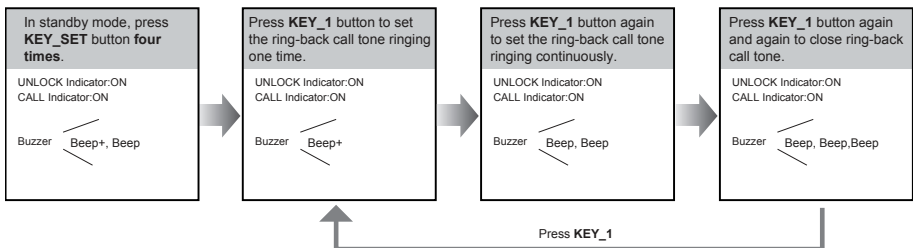


- While in the setting mode, the illumination mode can be changed by pressing KEY4 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

Setting Ring-back Tone

Press the call button to call monitor, a ring-back call tone can be heard from door station. There are 3 ring-back call tones, **Ring once**, **Ring continuously** and **No ring-back tone**.

Ring one time is default, to change the setting, please follow the steps:



- While in the setting mode, the calling mode can be changed by pressing KEY1 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

SETUP INSTRUCTIONS

Setting Image Display Mode

Please note this setting is only for monitors that do not support manual pan, tilt and zoom functions, i.e. CDV47M, CDV43 & CDV24.

When calling a monitor:

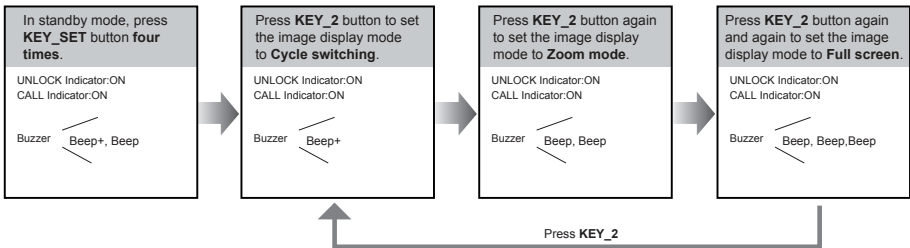
When a call is placed from door station to a monitor, the image is displayed on screen. There are 3 modes for the image that can be displayed; **Alternate switching mode**, **Zoom mode** and **Full screen mode**.

Alternate switching mode: when the monitor is called, the image will switch between **Full screen** and **Zoom** image at a time interval of 5 seconds.

Zoom mode: when the monitor is called, the image will be displayed on full screen for 5 seconds, then switch to **Zoom** image.

Full screen mode: when the monitor is called, the image will be displayed in **Full screen**.

Alternate switching mode is the default. To change the setting, please use the following steps:



- While in the setting mode, the calling code can be changed mode by pressing **KEY 2** cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

When answering the call

When answering the call, the image switching reminder can be activated or deactivated.

If set to activated, the image switching reminder will be different for each image display mode, see below.

Alternate switching mode: When answering the call, image switching reminder is not shown.

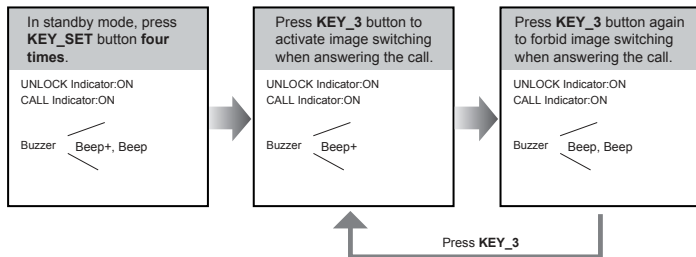
Zoom mode: When answering the call, the image will be displayed on **full screen** for 5 seconds, then switch to **Zoom** image as a reminder to enter the talk status.

SETUP INSTRUCTIONS

Full screen mode: When answering the call, the image will be displayed on **Zoom** mode for 5 seconds, then switch to **Full screen** as a reminder to enter the talk status.

If deactivated, no image switching reminder is displayed on any image display mode.

Activated is default, to change the setting, please use the following steps:



- While in the setting mode, the calling code can be changed mode by pressing KEY 3 cyclically.
- The **LED_NAME** indicator will continually flash while in the setting mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- To exit the setting mode manually press the **KEY_SET** button four times.

Registering ID Card

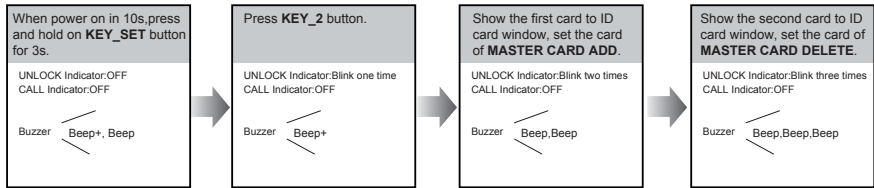
- A maximum of 320 user cards can be registered by the door station.
- Straight forward management with LED status and sound hints.
- There are two master cards, one **MASTER CARD ADD** and one **MASTER CARD DELETE**. When registering new master cards the existing master cards are invalidated automatically.
- Card reading distance is less than 3cm.
- The master cards are necessary when you add or delete user cards. Please keep safe for future use.
- EM card, 125kHz.
- Cards = Tags



Authorising master cards:

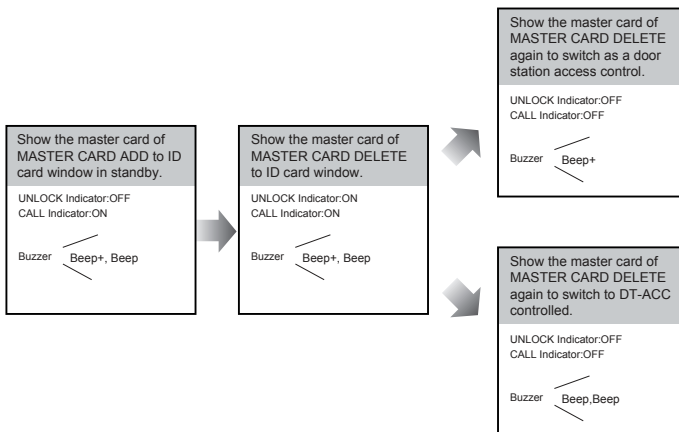
By default there are two master cards marked **MASTER CARD ADD** and **MASTER CARD DELETE**, new master cards can be authorised by users at any time. This means any two user cards can be authorised as master cards. When registered new master cards, the existing master cards will be invalidated automatically.

SETUP INSTRUCTIONS



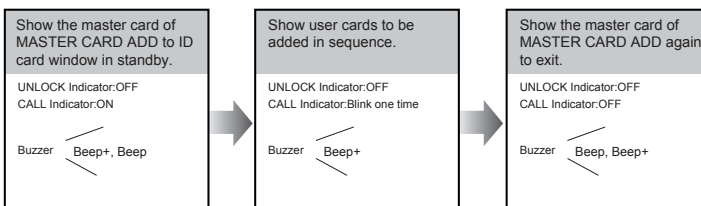
- The LED_NAME indicator will continually flash while in the authorisation mode.
- If no operation is carried out within 10 s the setting mode will exit automatically.
- The door station will exit the setting mode after showing both cards, The UNLOCK & TALK will turn off.

Switching Access Control:



- If no operation is carried out within 10 seconds, the setting mode will exit automatically.
- If current access is controlled by door station, the next access setting will controlled by CDV-ACC.

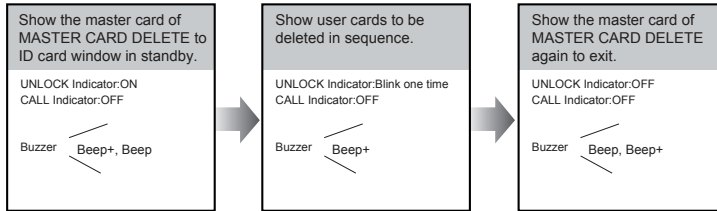
Adding User Cards:



- If no operation is carried out within 10 seconds, the setting mode will exit automatically.
- To add user cards the door station must be set for access. See above.

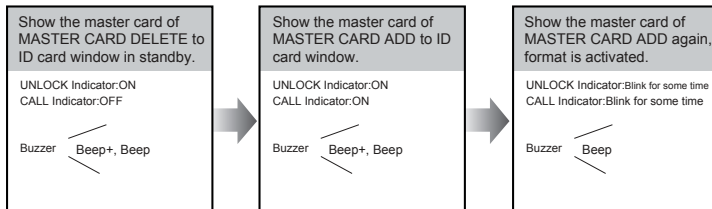
SETUP INSTRUCTIONS

Deleting User Cards:



- If no operation is carried out in 10 seconds, the setting mode will exit automatically.
- At the end of the operation, the buzzer will sound and the door station will exit the setting mode automatically.

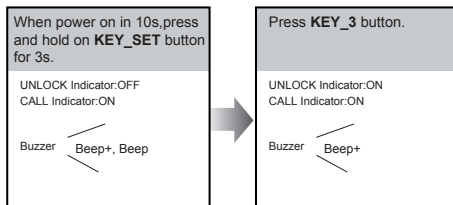
Initializing Access (delete all user cards):



- If no operation is carried out in 10 seconds, the setting mode will exit automatically.
- At the end of the operation, the buzzer will sound and the door station will exit the setting mode automatically.
- At step 3, the UNLOCK & TALK indicator will flash constantly until formatting is finished.
- When formatting is finished, UNLOCK & TALK indicator will turn off, a "Beep+" will be heard, and door station will exit the setting mode automatically.

Restore To Default

The 'restore to default' function allows the user to recover the factory settings.

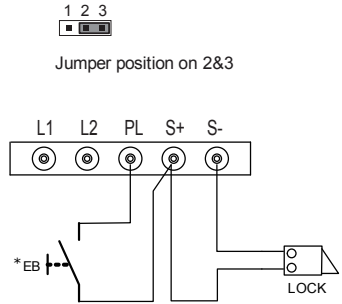


- The LED_NAME indicator will blink twice per second while in the 'restore to default' mode.
- If no operation is carried out within 10 seconds, the setting mode will exit automatically.
- When restoring is completed, UNLOCK & CALL indicator will be turned off and the setting mode will exit automatically.

Connecting Electric Lock

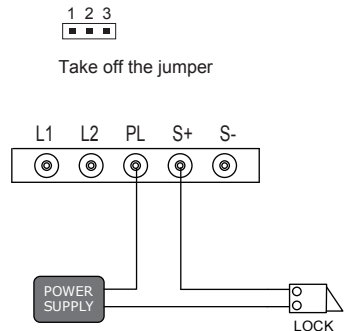
Door Lock Controlled with Internal Power

1. Electronic lock of Power-on-to-unlock (fail Secure) type should be used.
2. The door lock is limited to 12V, and holding current must be less than 250mA.
3. The jumper should be placed on position 2 and 3 before connecting.
4. The door lock control is not timed from Exit Button(EB).
5. The **Unlock Mode** is set to 0 (by default).



Door Lock Controlled with Dry Contact

1. The external power supply must be used according to the lock.
2. The inside relay contact is restricted to 230Vac 1A or 24Vdc 1A.
3. The jumper must be taken off before connecting.
4. Setup the **Unlock Mode** according to different lock types.
 - Power-on-to-unlock type: Unlock Mode=0 (by default)
 - Power-off-to-unlock type: Unlock Mode=1



* CDV-RLC relay actuator is required for 2nd lock connection.

APPENDIX

Precautions

- Please clean the unit with soft cotton cloth, don't use the organic impregnant or chemical clean agent. If necessary, please use a little pure water or dilute soap water to clean the dust.
- The unit is weather resistant. However do not spray high pressure water on 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.

Specification

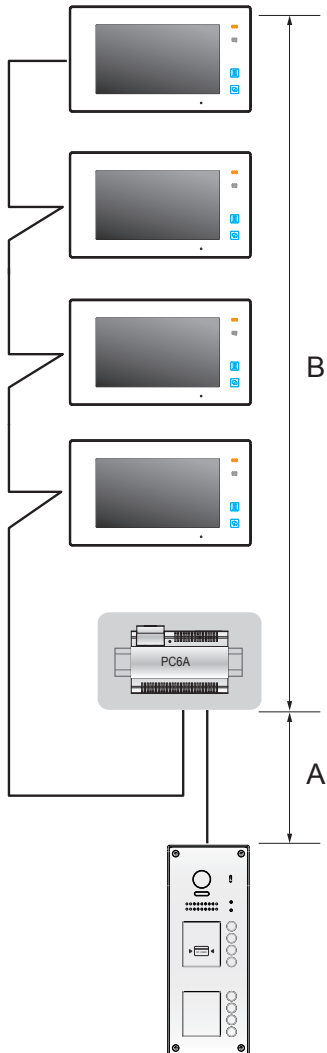
- Power Supply : DC 24V;
- Power Consumption: Standby 1.2W; Working status 4.8W;
- Fish Camera: Color CMOS, 2.0 Mega pixel 1/2.7''
fisheye camera,170° wide angle(CDV97);
- Lock Power supply: 12Vdc, 250mA(Internal Power);
- Unlock time: 1~99s(Default 1s);
- Number of relay circuits: 2 (the second lock need external device to support);
- Working temperature: -20°C ~ +55°C;
- Wiring: 2 wires,non-polarity;
- Protection: IP45;
- Dimension: 281(H)×110(W)×44(D)mm.

APPENDIX

Cables and Requirments

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.

Basic IN-OUT Wiring Mode

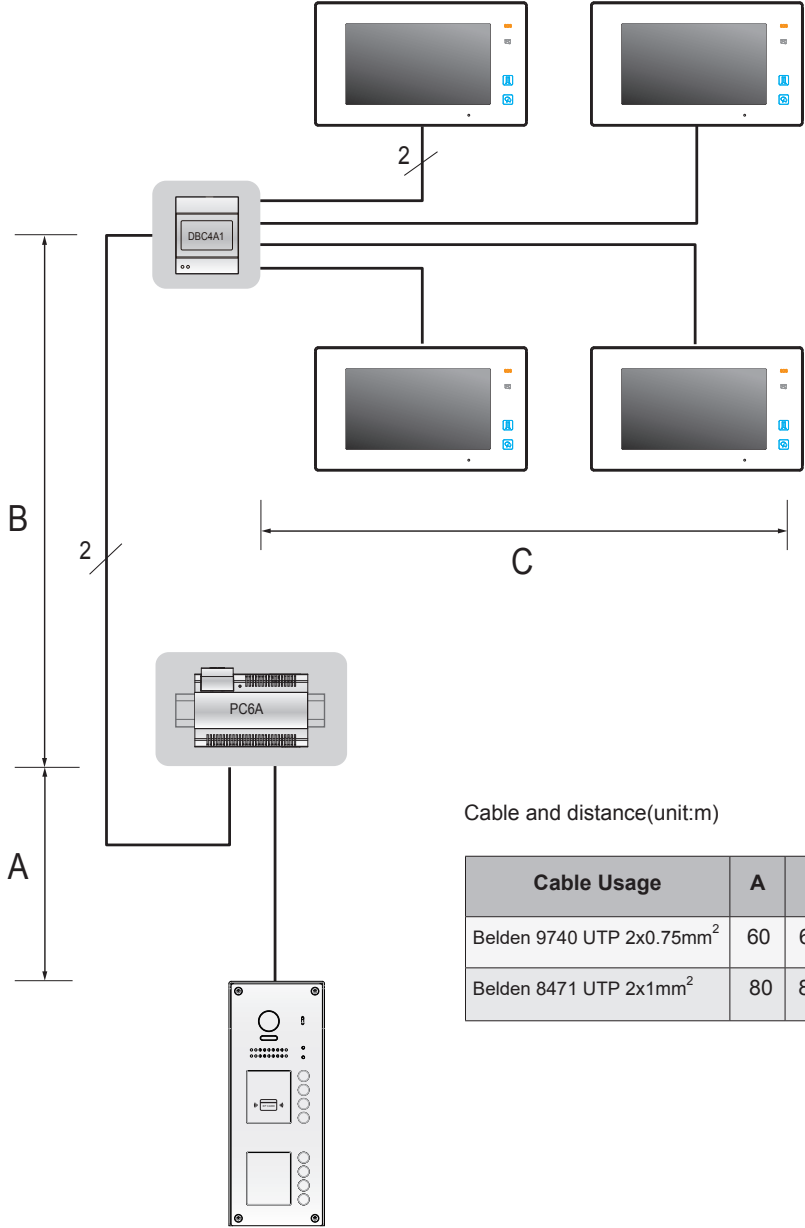


Cable and distance(unit:m)

Cable Usage	A	B	B
		≤2 IM	≤16 IM
Belden 9470 UTP 2x0.75mm ²	60	100	40
Belden 8471 UTP 2x1mm ²	80	120	60

APPENDIX

Star Topology Wiring Mode With DBC4A1



Cable and distance(unit:m)

Cable Usage	A	B	C
Belden 9740 UTP 2x0.75mm ²	60	60	30
Belden 8471 UTP 2x1mm ²	80	80	40

