

2 -Wire Intercom System

CDV96KP User Manual



CDV96KP

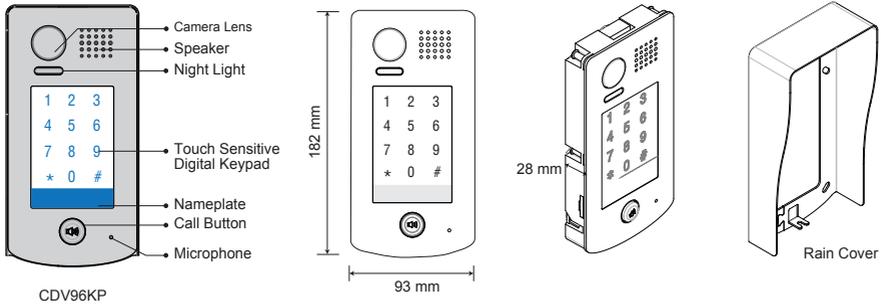


CDV96KP-SF

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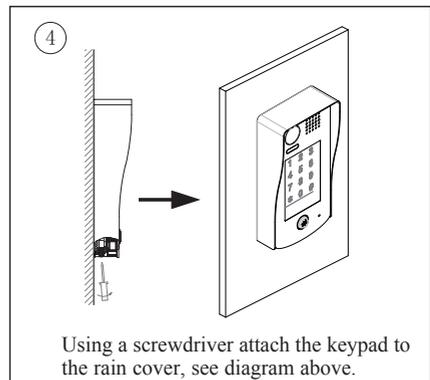
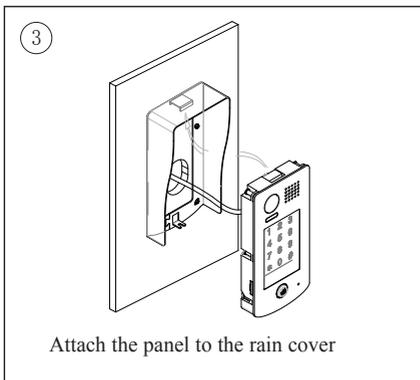
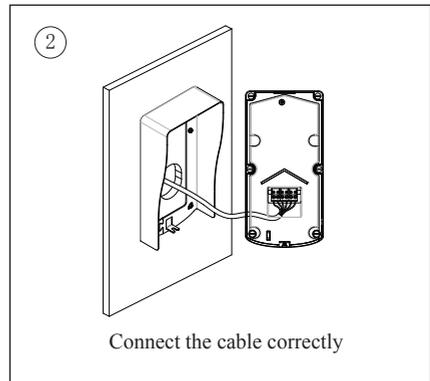
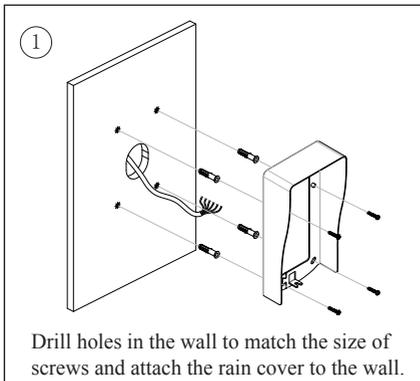
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1.Parts and Functions



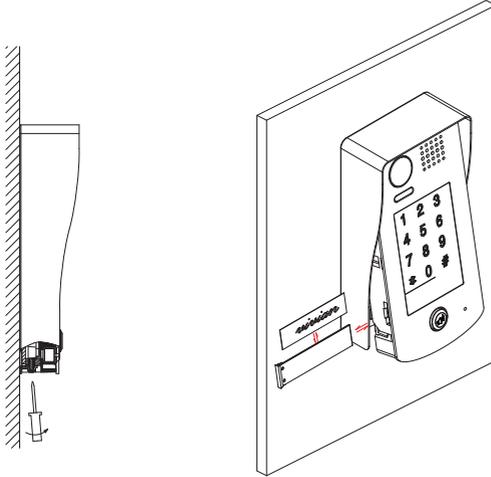
2.Mounting

CDV96KP Mounting

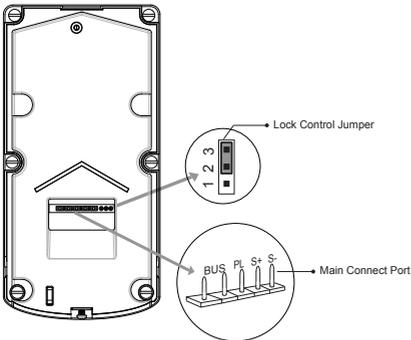


Placing Name Label

Using a screwdriver remove the fixing screw, pull forward the panel and slide in the name plate.



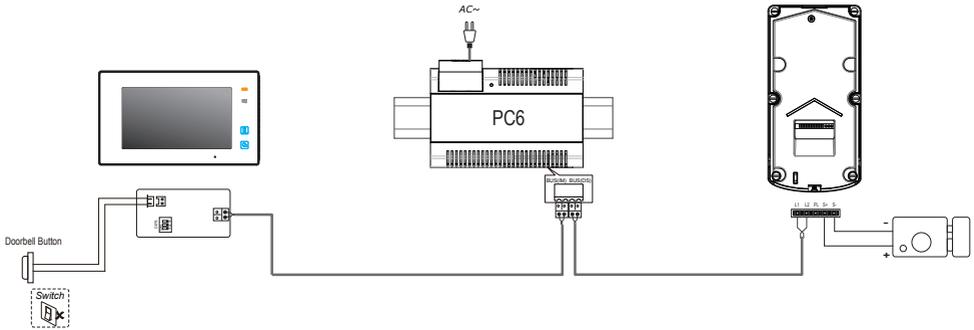
3.Terminal Descriptions



- **Lock Control Jumper:** To select the lock type.
- **Main Connect Port:** To connect the bus line and the electronic locks.
- **BUS:** Connect to the bus line, no polarity.
- **PL:** External lock power input. positive(power +).
- **S+:** Lock power(+) output.
- **S-:** Lock power(-) output (if using the external power supply for the locks, the S- will not be connected).

4. System Wiring and Connections

Basic Connection



Electric Lock Connection

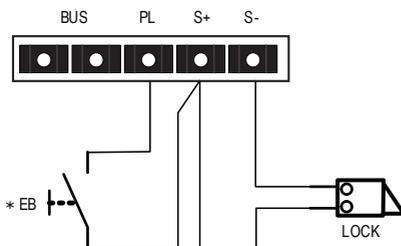
A fail secure (power applied to unlock) electronic lock device should be used.

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).

1 2 3
Connect one lock

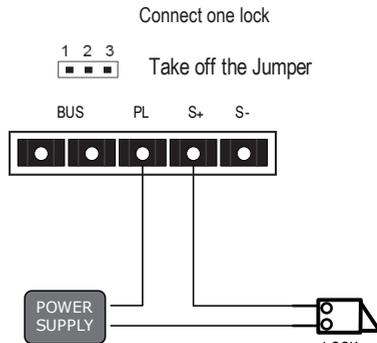
Jumper position in 2-3



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. Set the **Unlock Mode** of Monitor for different lock types.
 - Power-on-to-unlock type: Unlock Mode=0 (by default - monitor code 8010)
 - Power-off-to-unlock type: Unlock Mode = 1 - monitor code 8011



Unlock parameter setting(set in monitor)



1. Touch icon on main menu page.



2. Touch **UNLOCK** button and hold for 2s.

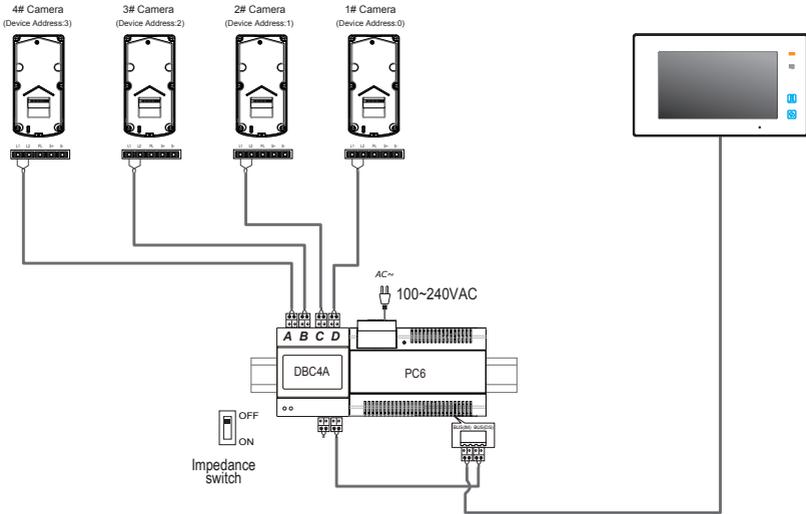


3. A digital keypad will be shown.

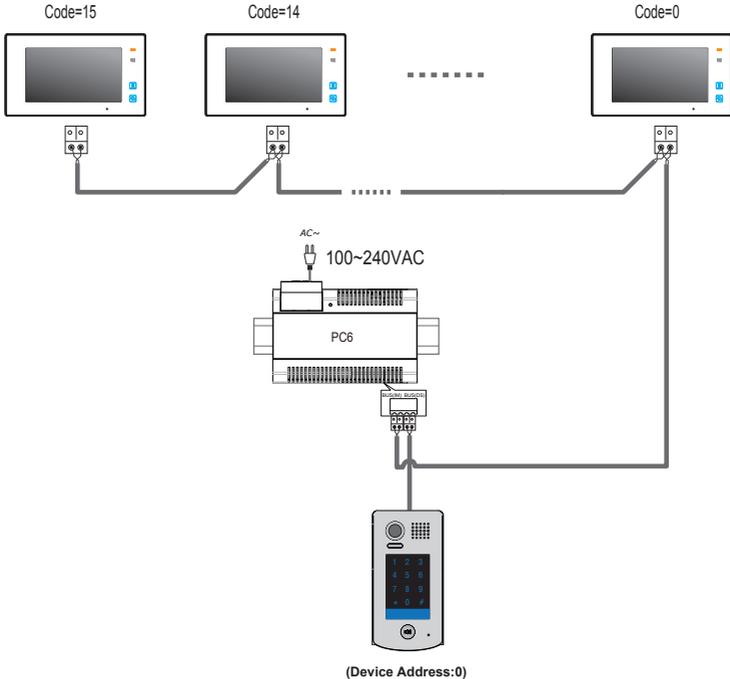
Note:

1. must connect CDV96KP correctly before setting.
2. the parameter will be saved in CDV96KP automatically, so you need only set on one monitor.
3. the above diagram is fit for icon menu series monitors only, to text menu series monitors, please refer to the corresponding user manual.

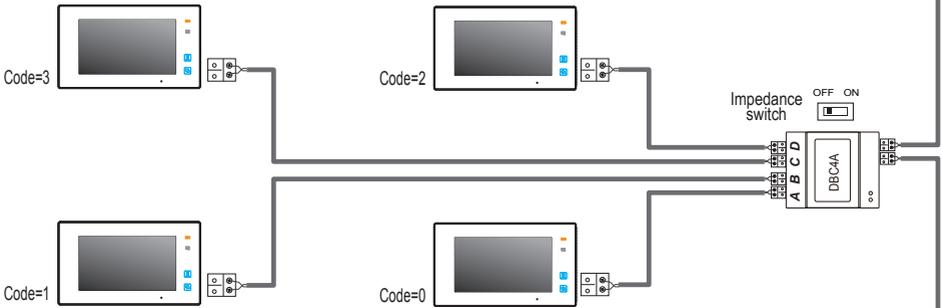
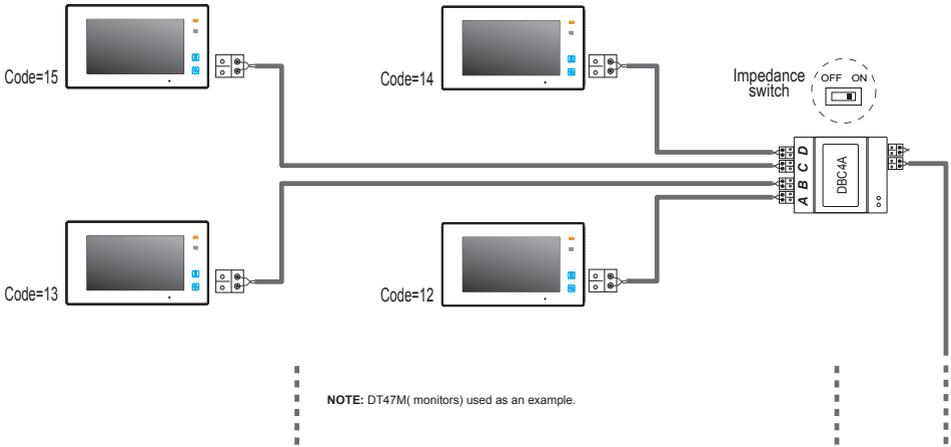
Multi Door Stations Connection



Basic IN-OUT(Daisy Chain) Wiring Mode



With DBC4A Wiring Mode

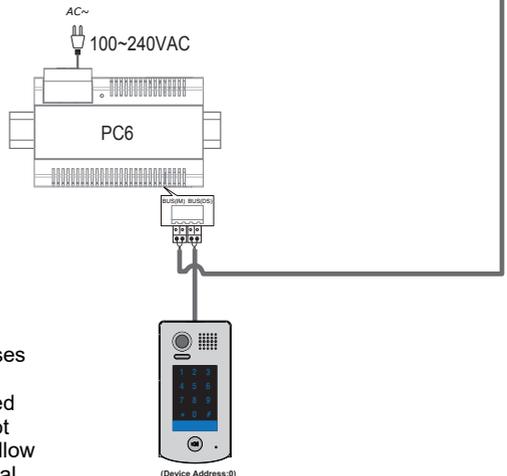


Important: When installing multiple monitors a maximum of 4 monitors can be set to show video during the ring time, if more than 4 monitors show video during the call a current overload may occur shutting the system down.

All monitors set as Master

To set video on enter code 8006
To set video off enter code 8007

Note: By setting monitors to individual addresses up to 8 monitors can be connected to a single CDV-PC6 assuming the correct cables are used and the video display during the ring time to not more than 4 monitors is set up. This will also allow use of the intercom function see monitor manual.



5. Pan-tilt & Zoom & Panview

Please Note: this function requires the CDV47-MGv2 monitor with zoom function.

It is possible to adjust the display view from the CDV96KPv2 door station by using the 5 direction pad button.

When the door station image displayed, move to the desired position by touching ▲ ▼ ● ◀ ▶ on the screen to view the image in zoom mode.

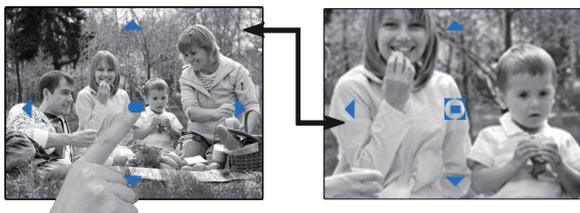
Note: The edge of pan/tilt image will not be displayed.



Screen of monitor

Here are some examples:

Touch ● icon to zoom the center position.



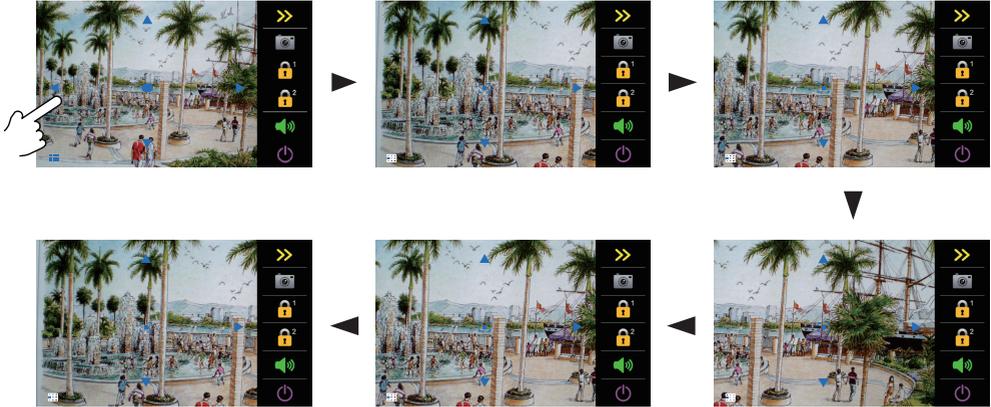
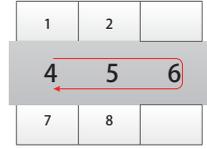
Panview function:

We have divided the screen image into nine parts, as shown in the image on the right.

In this case there are two panview modes:



1) Touch area 4: zoom to area 4, the lens moves to area 6, and then returns to area 4;(see details below)



Note: Touch the screen again to exit the panview mode.

2) Touch area 6: zoom area 6, the lens moves to area 4, and then returns to area 6;(As details below)



Note: Touch the screen again to exit the panview mode.

6. Functions Setting Up

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

Programming mode:

Input the master code to enter the programming mode then enter the corresponding setting code to set the function required. Press "*" to exit the setting mode.



- # is used to confirm and * to cancel/exit. Function 8 allows * & ~ functions to be reversed (see table on pg. 10).
- Do not slide finger across the touch pad as this can cause incorrect key presses. Press each individual key as required.
- Press 'Confirm' (#) key after entering each code number, failure to do this will result in the operation being cancelled after 10 seconds.

See next page for full function/settings descriptions

Order	Function	Setting range	Default value	Setting code
1	Reset all settings	1234	-	00
2	Sets the master code	1 ~ 12 digits Valid keys:0 ~ 9	1234	01
3	Sets the key illumination time	10 to 99 seconds/ continually lit	10 seconds	02
4	Sets the unlock time	01 to 99 seconds	1 seconds	03
5	Sets the unlock mode	0:opened/1:closed	opened	04
6	Operation tone settings	0:on/1:off	on	05
7	Reset code settings	1234	-	06
8	*&# function settings	0:Normal/1:Reverse	Normal	07
9	Call tone settings	0:Enable/1:Disable	Enable	08
10	Interference resistant grade settings	Valid keys:0 ~ 5	2	09
11	MIC Adjustment	Valid keys:0~9	7	10
12	SPK Adjustment	Valid keys:0~9	7	11
13	Display Scene	Valid keys:0~2	0	12
14	Night Light Level	Valid keys:0~5	4	13
15	Device Address	Valid keys:0~3	0	14
16	Reserve(not used)	Reserve	Reserve	15~17
17	Setting the code forTemporary1	1 ~ 12 digits Valid keys:0~9	-	18
18	Setting the code forTemporary2	1 ~ 12 digits Valid keys:0~9	-	19
19	Setting the code for user group1	1 ~ 12 digits Number of codes:40 Valid keys:0~9	-	20~59
20	Setting the code for user group2	1 ~ 12 digits Number of codes:40 Valid keys:0~9	-	60~99
21	Work Mode	0:A partment/1:Villa	1(villa)	100
22	Call Address	Valid keys: 0 - 9	00	101



Each operation is indicated by the lighting up of the different color of digital key and nameplate, and by the sounding of the buzzer.

Input the master code.
(Default: [1 2 3 4] +[#])

The color of key indicator (white) Beep+, Beep

1.Reset all settings 2.Setting the master code (Default : 1234) 3.Setting the key illumination time (Default : 10s) 4.Setting the unlock time (Default : 1s)

Input the setting code.
00+#

The color of key indicator (yellow) Beep+, Beep

Input the setting code.
01+#

The color of key indicator (yellow) Beep+, Beep

Input the setting code.
02+#

The color of key indicator (yellow) Beep+, Beep

Input the setting code.
03+#

The color of key indicator (yellow) Beep+, Beep

Inputting of code
1234+#

The color of key indicator (green--white) Beep+

Inputting of new master code (ex.: 4321)(1~12 digits)
4321+#

The color of key indicator (green--white) Beep+

Inputting of code (ex.: 10) range:00 or 10~99
10+#

The color of key indicator (green--white) Beep+

Inputting of code (ex.: 09) range:01~99
09+#

The color of key indicator (green--white) Beep+

- When the “ * cancel” key is pressed, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When there isn't any operation in 10s, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When setting failure, the color of key indicator will turn red, the buzzer beeps.

The color of key indicator (The color of standby) Beep, Beep+

- All settings will restore to their default value.
- When the keypad is powered on or the reset function is activated the keypad will carry out system check, during this period the key illumination will flash, DO NOT TOUCH THE KEYPAD. On completion the flashing will stop followed by a long beep.

- The master code can be 1 to 12 digits, the same code cannot be used for any user code. It is recommend the default master code is changed.

- If the key illumination time is set to 00, the key illumination will light up all the time when power on.
- If the key illumination time is set to 10~99, the key illumination will light up for 10~99 seconds. In this mode the illumination is off, touching any key will turn the illumination on. The illumination will turn off after the set time if no key is touched or after the final key press.

- The unlock time can be set on both monitor and door station, and the valid value is the number you set last time.

Input the master code.
(Default: [1 2 3 4] +[#])

The color of key indicator
(white) Beep+, Beep

5.Setting the unlock mode (Default : 0(opened)) 6.Setting operation tone (Default : ON) 7.Reset code setting 8.*&# function setting (Default : Normal)

Input the setting code.
04+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
05+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
06+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
07+#

The color of key indicator
(yellow) Beep+, Beep

0/1

Inputting of code (ex.: 1)
range:0:(open)/1:(close)
1+#

The color of key indicator
(green→white) Beep+

0/1

Inputting of code (ex.: 1)
range:0:(on)/1:(off)
1+#

The color of key indicator
(green→white) Beep+

Inputting of code
1234+#

The color of key indicator
(green→white) Beep+

0/1

Inputting of code (ex.: 1)
range:0:(normal)/1:(reverse)
1+#

The color of key indicator
(green→white) Beep+

- When the “ * cancel” key is pressed, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When there isn't any operation in 10s, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When setting failure, the color of key indicator will turn red , the buzzer beeps.

The color of key indicator
(The color of standby) Beep, Beep+

- The unlock mode can be set on both monitor and door station, and the valid value is the number you set last time.

- When the operation tone is set to 0,pressing the digital keypad will sent out a sound of beep.
- When the operation tone is set to 1,pressing the digital keypad will blink one time.

- Cancel all the passwords except the master code.
- Restore the master code to default value(1,2,3,4)

- When the item is set to 0,press the * button to cancel the input, and press the # button to confirm the input.
- When the item is set to 1,press the # button to cancel the input, and press the * button to confirm the input .

Input the master code.
(Default: [1 2 3 4] +[#])

The color of key indicator
(white) Beep+, Beep

9. Call tone setting
(Default : enable)

10. Interference resistant grade setting
(Default : 2)

11. IMC volume adjust setting
(Default:7)

12. SPK volume adjust setting
(Default:4)

Input the setting code.
08+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
09+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
10+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
11+#

The color of key indicator
(yellow) Beep+, Beep

0/1

Inputting of code (ex.: 1)
range:0(enable)/1:(disable)
1+#

The color of key indicator
(green→white) Beep+

Inputting of code (ex.: 3)
range:0~5
3+#

The color of key indicator
(green→white) Beep+

Inputting of code (ex.: 5)
range:0~9
5+#

The color of key indicator
(green→white) Beep+

Inputting of code (ex.: 5)
range:0~9
5+#

The color of key indicator
(green→white) Beep+

- When the " * cancel" key is pressed, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When there isn't any operation in 10s, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When setting failure, the color of key indicator will turn red , the buzzer beeps.

The color of key indicator
(The color of standby) Beep, Beep+

- If the item is set to 0, the unit will emit a call tone when pressing the "CALL" button.
- If the keypad function 9 is set to '1', the keypad will have no response but will still call the monitor.

- The larger you set the interference resistant grade, the stronger it will be, but the sensitivity of the keypad will be more lower.
- The interference resistant grade setting also will activate the keypad checking.

- Unlock via password is still available even when the door station is still in call mode.
- When the door station is in call mode, you can enter the Master code (the LED turns white) to activate the volume adjusting function:
* MIC adjustment: 1 (up), 4 (down);
* Speaker adjustment: 3 (up), 6 (down).

Input the master code.
(Default: [1 2 3 4] +[#])

The color of key indicator (white) Beep+, Beep

13. Display scene setting (Default : 0) 14. Night light level setting (Default : 4) 15. Device address setting (Default:0)

Input the setting code.
12+#

The color of key indicator (yellow) Beep+, Beep

Input the setting code.
13+#

The color of key indicator (yellow) Beep+, Beep

Input the setting code.
14+#

The color of key indicator (yellow) Beep+, Beep

0/1

Inputting of code (ex.: 1) range:0~2
1+#

The color of key indicator (green→white) Beep+

Inputting of code (ex.: 3) range:0~5
3+#

The color of key indicator (green→white) Beep+

Inputting of code (ex.: 0) range:0~3
0+#

The color of key indicator (green→white) Beep+

- When the “ * cancel” key is pressed, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When there isn't any operation in 10s, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When setting failure, the color of key indicator will turn red , the buzzer beeps.

The color of key indicator (The color of standby) Beep, Beep+

- Scene0: Standby(blue), calling (blue blinks rapidly), talking(blue blinks slowly), unlock(green).
- Scene1: Standby(green), calling (green blinks rapidly), talking (green blinks slowly), unlock(blue).
- Scene2: Standby(blue), calling (yellow), talking(red), unlock(green).

- Night Light Level:0~5.
- The higher the number, the brighter the night lights.

- Device address Settings:
0(device address:0),1(device address:1),2(device address:2), 3(device address:3).

Input the master code.
(Default: [1 2 3 4]+[#])

(red) ON (blue) OFF
● ○ Beep+, Beep

16. Setting the code for Temporary1 17. Setting the code for Temporary2 18. Setting the code for user group1 19. Setting the code for user group2

<p>Input the setting code. 18+#</p> <p>(red) ON (blue) ON ● ● Beep+, Beep</p>	<p>Input the setting code. 19+#</p> <p>(red) ON (blue) ON ● ● Beep+, Beep</p>	<p>20~59 Input the setting code. (ex.:21) 21+#</p> <p>(red) ON (blue) ON ● ● Beep+, Beep</p>	<p>60~99 Input the setting code. (ex.:60) 60+#</p> <p>(red) ON (blue) ON ● ● Beep+, Beep</p>
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<p>Inputting of code (ex.: 1006) 1~12 digits 1006+#</p> <p>(red) ON (blue) OFF ● ○ Beep+</p>	<p>Inputting of code (ex.: 2011) 1~12 digits 2011+#</p> <p>(red) ON (blue) OFF ● ○ Beep+</p>	<p>Inputting of code (ex.: 2011) 1~12 digits 2011+#</p> <p>(red) ON (blue) OFF ● ○ Beep+</p>	<p>Inputting of code (ex.: 2012) 1~12 digits 2012+#</p> <p>(red) ON (blue) OFF ● ○ Beep</p>
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- When the “ * cancel” key is pressed, the LED lights off, the buzzer beeps, and the system exits the setting mode

- When there isn't any operation in 10s, the LED lights off, the buzzer beeps, and the system exits the setting mode

(red) OFF (blue) OFF
○ ○ Beep, Beep+

- When input the correct temporary password to release the door, the system will clear the temporary password after 60 seconds automatically. But you should know that the password is valid within 60 seconds after inputting the correct temporary password
- The temporary1 is used to release the first lock, and the temporary 2 is used to release the second lock.
- If the password length exceeds 12 digits, the system will sent out the sound of “beep,beep,beep,beep”, and the digitals you input before will be cleared at the same time.
- The temporary code can not be set the same as the master code and user code.

- The user code group1 is used to release the first lock, and the user code group2 is used to release the second lock.
- The user code group1 and user code code group2 can contain 40 group passwords
- If the password length exceeds 12 digits, the system will sent out the sound of “beep,beep,beep,beep”, and the digitals you input before will be cleared at the same time.
- The user code can not be set the same as the master code and temporary code.

NOTE: User group 2 operates part No. CDV-RLC if connected.

Input the master code.
(Default: [1 2 3 4]+[#])

The color of key indicator
(white) Beep+, Beep

20. Work mode setting
(Default: 1/villa)

21. Call address setting
(Default: villa:00, 16;
a partment:00~31)

Input the setting code.
100+#

The color of key indicator
(yellow) Beep+, Beep

Input the setting code.
101+#

The color of key indicator
(yellow) Beep+, Beep

Inputting of code (ex.: 1)
range:0(a partment)/1:(villa)
0+#

The color of key indicator
(green—white) Beep+

Inputting of code (ex: 01)
range:Valid keys: 0 - 9
0+#

The color of key indicator
(green—white) Beep+

- When the “ * cancel” key is pressed, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When there isn't any operation in 10s, the indicator will show its standby color, the buzzer beeps, and the system exits the setting mode.
- When setting failure, the color of key indicator will turn red , the buzzer beeps.

The color of key indicator
(The color of standby) Beep, Beep+

- Work mode setting:
0(apartment)/1:(villa).

- When the work mode is villa, the call address:00 or 16.
- When the work mode is apartment, the range of call address:00~31.

7.Unlock Operations

Unlocking of user code

When the registered user code has been input using the keypad (1~12 digits), the LED background indicator lights up, the buzzer sounds,and the electric door strike is unlocked.(note that you should press "#" button(if "#" button is set to confirm button) after input the unlock code)

- The time interval during which the button must be pressed is approximately 10 seconds. If the time interval exceeds approximately 10 seconds, the input value will be cleared.
- If you make a mistake when inputting the user code,press the" cancel" button and input the user code again.
- The release function is forbidden and the input operation is disabled for 60 seconds if 10 times incorrect access codes are continuously attempted. During this time,the buzzer will continuously sound about 8 times.



1. During calling,pressing "cancel" button can cancel the calling
2. If input the incorrect access code,the buzzer will sound of beep,beep,beep

8. Precautions

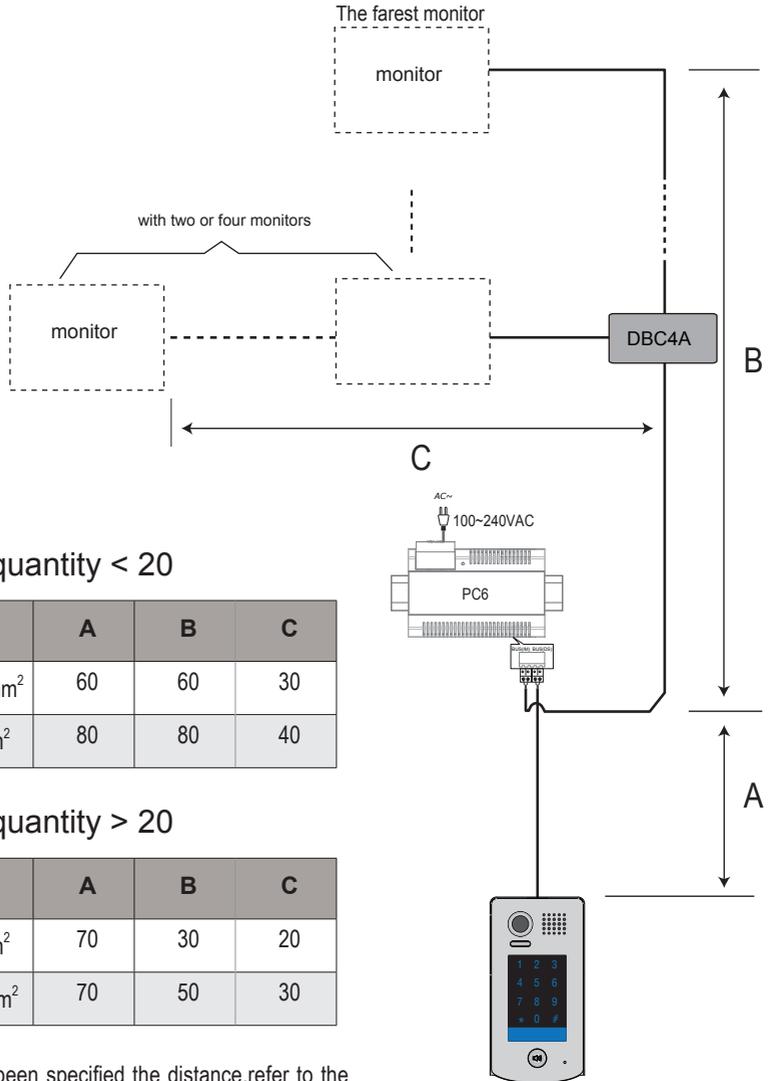
- Please clean the unit with soft cotton cloth, don't use the organic impregnant or chemical clean agent. If necessary, please use a little pure water or dilute soap water to clean the dust.
- The unit is weather resistant. However do not spray high pressure water on access control keypad directly. Excessive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

9.Specifications

- | | |
|-----------------------------|--|
| • Power Supply : | DC 24V (supplied by PS4-24V or PS5-24V); |
| • Power Consumption: | Standby 40mA; Working status 160mA; |
| • Camera: | Color CMOS; 2.0 mega Pixel; 1/2.7 170° Fish Eye |
| • Unlocking time: | 1~99s |
| • Lock Power supply: | 12Vdc, 280mA(Internal Power); |
| • Number of relay circuits: | 2(the second lock need external device to support) |
| • Mounting: | Surface mounting(CDV96KP) |
| • | Flush mounting (CDV96KP-SF) |
| • Working temperature: | -15°C ~ +55°C |
| • Dimension: | 182(H)×93(W)×44(D)mm(DT601/KP) |
| | 220(H)×120(W)×50(D)mm(DT601F/KP) |

10.Cables 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

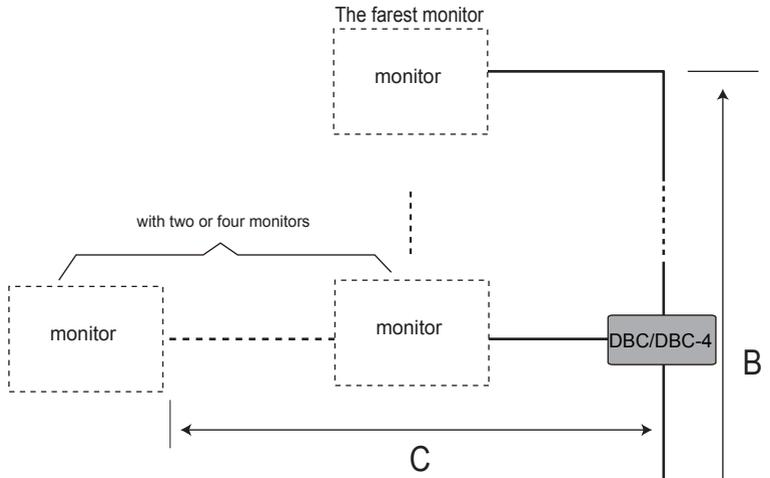
Cable Usage	A	B	C
Twisted cable 2x0.75 mm ²	60	60	30
Twisted cable 2x1 mm ²	80	80	40

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

Note: If the monitor has been specified the distance, refer to the parameter.

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.

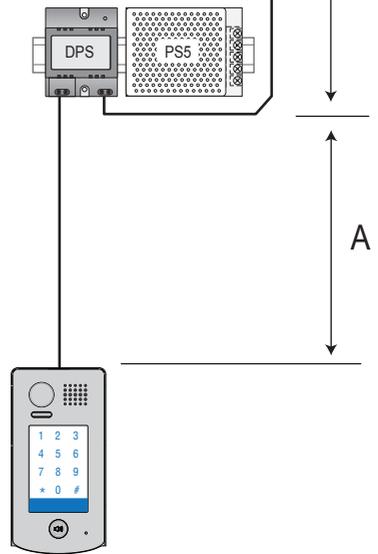


When Monitor quantity < 20

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



Note: If the monitor has been specified the distance, refer to the parameter.

Note:

A series of horizontal dotted lines for writing.

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