



Access Control Advanced Wi-Fi Kit



User Manual DOOR-ENTRY-TS



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Kit Code:
DOOR-ENTRY-TS



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**Melody
Setting**



**Mute
Function**



**Remote
Access**



**Micro
SD**



**Wi-Fi
Function**

DOOR-ENTRY-TS KIT SPECIFICATIONS

OUTDOOR STATION SPECIFICATION

Resolution: 900 TVL

View Angle: Horizontal 120°

Signal Standard: PAL

Night LED: White

Water & Dust Proof: IP54

Installation: Surface mounting

Power Supply: 30±2Vdc/1.2A from bus

Operation Condition: -20°C ~ +55°C

Dimension: 92(w) x 177.5(h) x 29.5(d)mm

Weight: Net 380.86g Gross 400.86g

Colour: Dark grey

OUTDOOR STATION FEATURES

- High resolution 900tvl, 120 degree wide angel
- White LED with auto day & night mode sensor for night vision
- Large Backlit nameplate
- Supports 2 locks
- Supports analog camera connection
- Central BUS power supply
- Aluminum alloy housing, IK07, IP54
- Surface mounted
- Supports RFID function, 82pcs per panel

7" TOUCH SCREEN MONITOR SPECIFICATION

Screen resolution: 800(RGB)*480

Signal standard: PAL

Flash memory capacity: 100 pictures

Additional SD card: 8-32G

Power supply: 30±2Vdc from bus

Dimension: 222(w) x 154(h) x 15(d)mm

Weight: Net 477.99g Gross 537.99g

Installation: Surface mounting

Colour: White

7" TOUCH SCREEN MONITOR FEATURES

- True Glass surface panel
- GUI menu
- 15mm slim design
- Colorful status LED indicators
- Inner flash+ SD card memory
- Auto/Manual video and photo recording
- Built-in Wi-Fi support Andriod/ios APP
- Support Ringer
- 6 Melody

POWER SUPPLY SPECIFICATION

Input: 100~240Vac/0.6A, 50/60Hz

Output: 30±2Vdc/1.2A

Installation: DIN rail mounting

Dimension: 140(w) x 97.5(h) x 58.5(d)mm

Weight: Net 367.25g Gross 387.25g

Colour: White

POWER SUPPLY FEATURES

- 30±2Vdc/1.2A
- DIN rail mounting

COMPLETE KIT

Dimensions: 288(w) x 210(h) x 125(d)mm

Weight: Net 1226.1g Gross 1326.1g

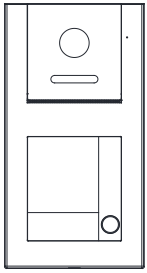


OUTDOOR STATION

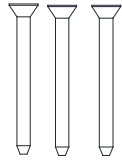


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- 2. Installation 7
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- 4. Diagram 11

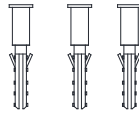
1.Package contents



Main Body



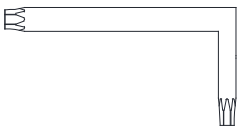
KA M3.5*35mm
Mounting Screw



M3.5*35mm
Plastic Expansion Pipe



KM M4*10mm
Fixing Hood Cover



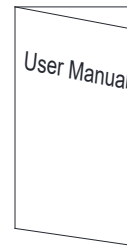
WRENCH
Fixing Hood Cover



Doorplate card

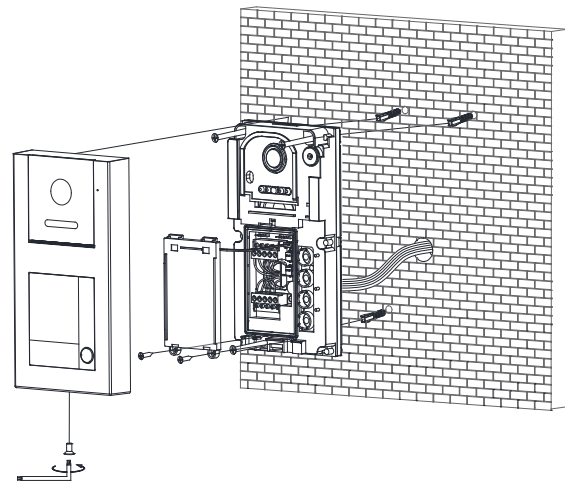
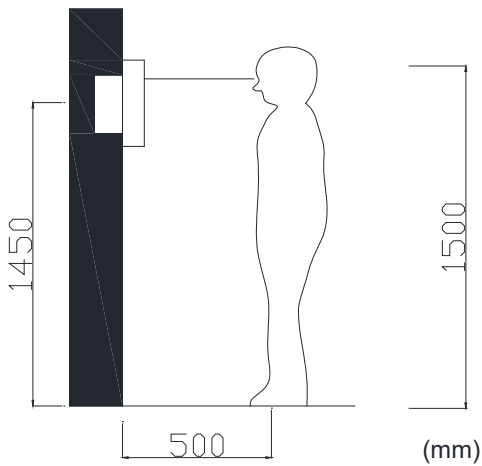


Warranty card

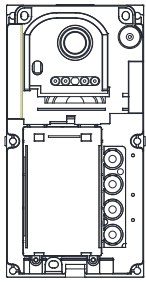


User Manual

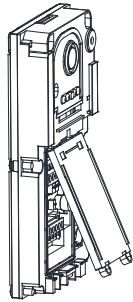
2.Installation



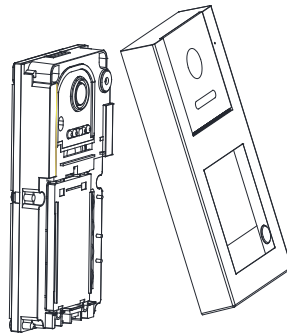
2.1 Main parts



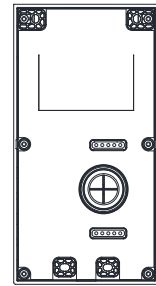
middle cover



middle cover



front cover



back cover

3. features and functions

wide angle horizontal 120°, 900TVL

Release electronic lock and automatic door

dust-proof and water-proof IP54

Speaker volume adjustment

White LED for night vision

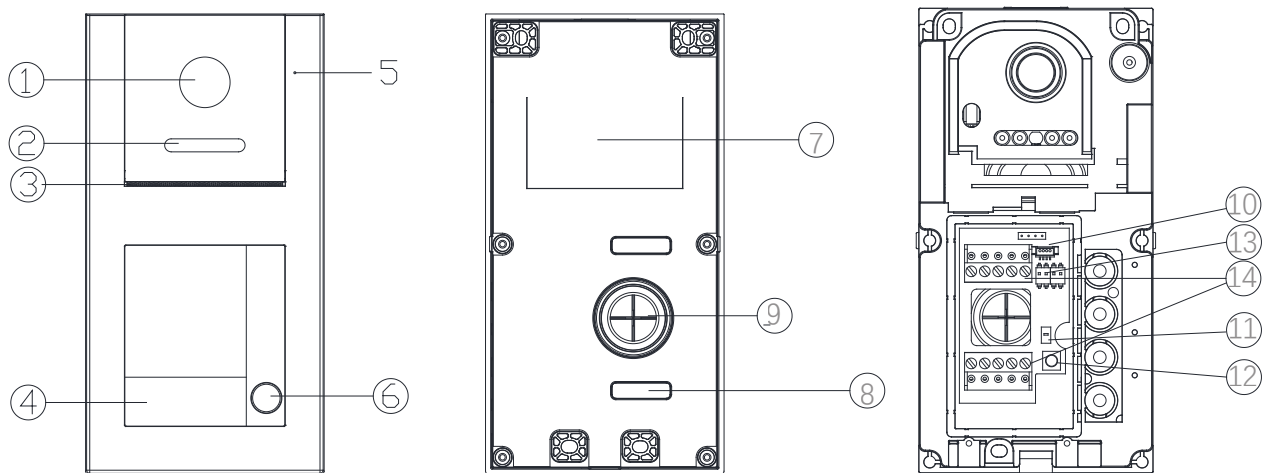
surface mounted

Backlight nameplate & optional 1-4 call buttons

support ID card

3.Specifications

Category	Specification
Input power	System power: 30±2V
Wiring	2 wire bus/2 wire electronic lock 2 wire automatic door/2 wire exit button/2 wire cctv
Dimensions(mm)	176x90x27
Working Temperature	-20°C~+55°C



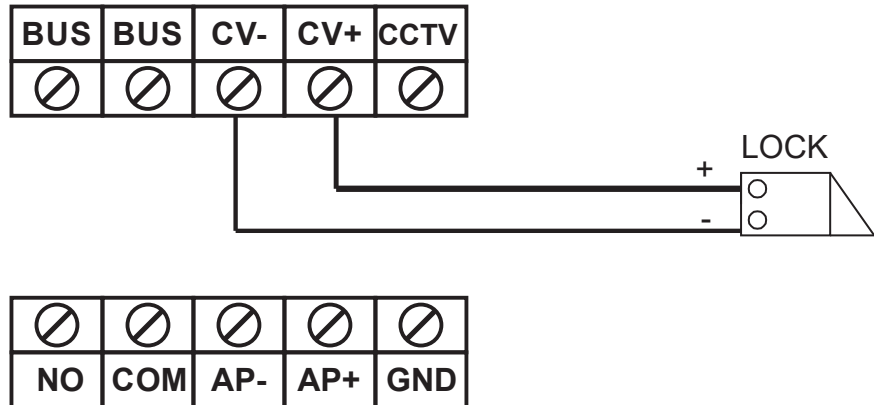
NO.	Part Name	NO.	Part Name
1	Camera	8	testing point
2	LED for night vision	9	water proof rubber
3	Speaker	10	connector for ID card reader
4	Name plate	11	reset button for ID card setting
5	Microphone	12	knob for ring and talking volume adjustment
6	Push buttons	13	dip switch for address , unlock type,ring tone
7	Back cover foam	14	connectors for bus,lock, cctv,exit button

5. terminal for outdoor station

BUS BUS	connect to the bus cables
CV- CV+	connect to the electric lock with internal power supply
CCTV GND	connect to the analog camera.
NO COM	connect to the second lock with external power supply
AP- AP+	connect to the exit button.

Door lock controlled with internal power (electric lock)

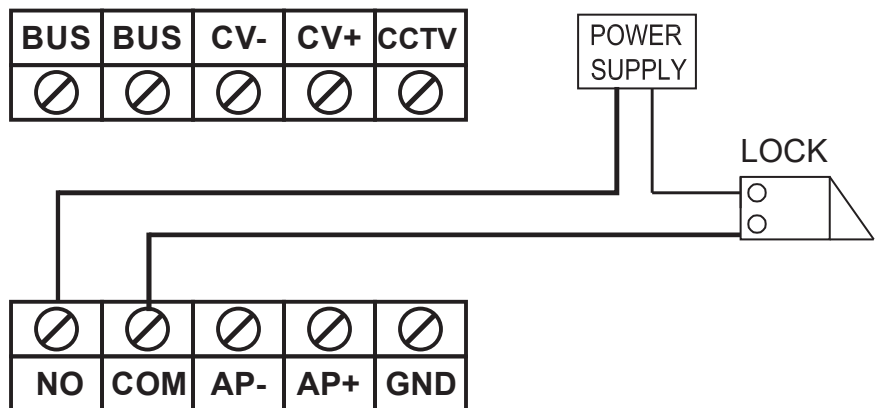
Note:the door lock is limited to 12V, and holding current must be less than 160mA,



Door lock controlled with Dry contact (automatic door)

Note:

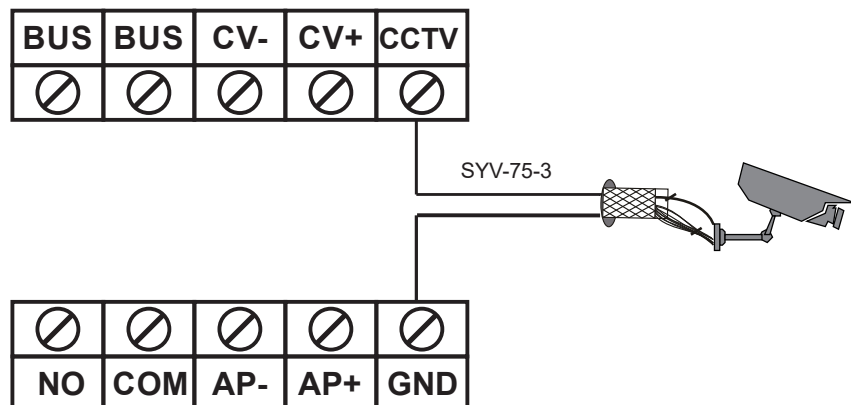
- 1.the external power supply must be used according to the lock
- 2.the door lock is limited to 12V,And holding current must be less than 6A
- 3.only support power-on-to-unlock



Analog CCTV connection

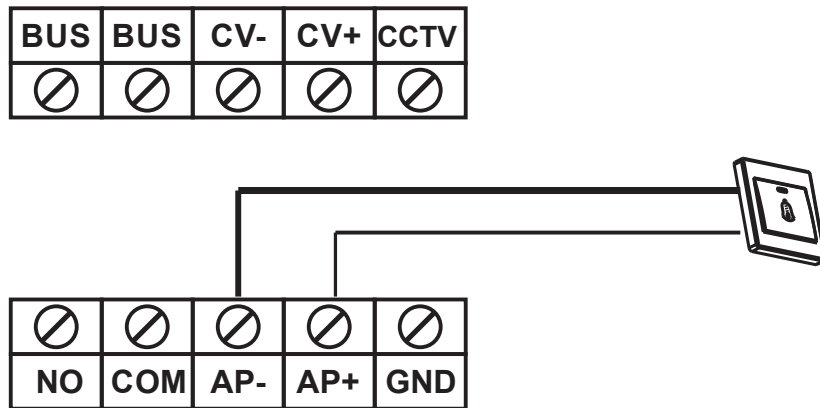
Note:

the CCTV need external standard 12V power supply



Exit button connection:

it can control electric lock or automatic lock, depend on the Bit3 dip setting.



5.DIP-Switch Setting For Indoor Monitor

- 0 =down=off ,1=up=on.
- Bit-1 ~ Bit 2 are used for outdoor station address settings.
Maximum support 4 outdoor stations
- Bit-3 is used for exit button unlock type setting
- Bit 4 is used for the ringtone mute.

Bit 1-2	Function	Bit 3	Function	Bit 4	Function
00	door1	0	electric lock	0	ringtone disable
10	door2	1	automatic door	1	ringtone enable
01	door3				
11	door4				

5.ID card setting and use



5 RFID card:
4 users (grey)
1 setting (Yellow)

1. Press the reset button for 1 seconds, then it will enter into reset mode accompany with 6 beeps. In the reset mode, all the ID cards (including the setting card) will be deleted first.
2. after 6 beeps, attach the first card to the reader accompany with 1 long beep.

Note:

- 1)the first added card will be regarded as the setting card
- 2)if you don't attach any card within 8 seconds. it will quit reset mode automatically accompany with 1 long beep
3. attach setting card to the reader, you will enter into adding user card mode accompany with 4 beeps. then attach the user cards to the reader one by one accompany with 1 short beep each card.

Note:

if you added all the user cards. it will quit the adding mode after 10 seconds automatically.

How to use:

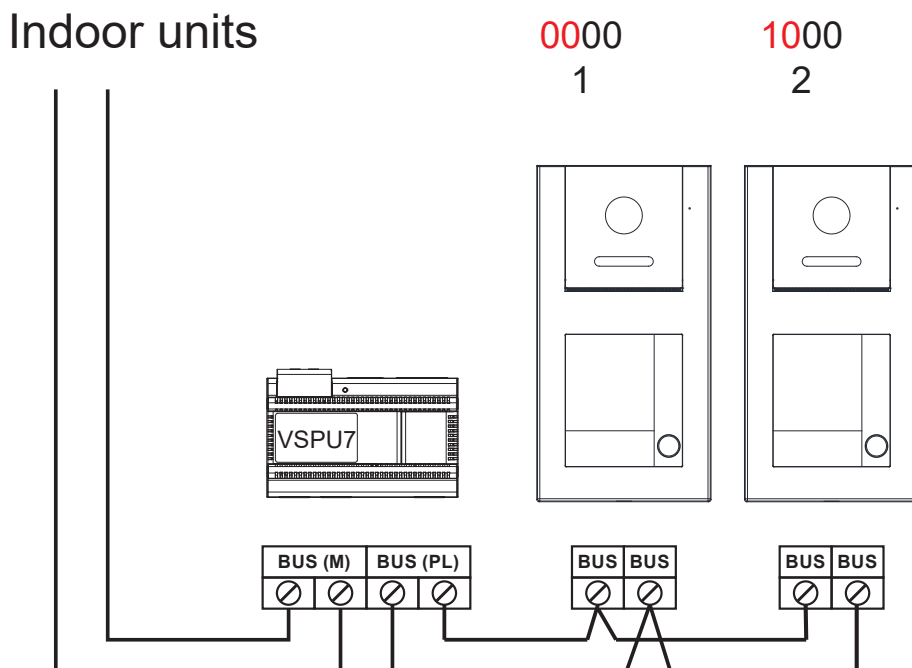
attach the user card to the name plate area.

if you keep it with 2s, it will unlock the electric lock.

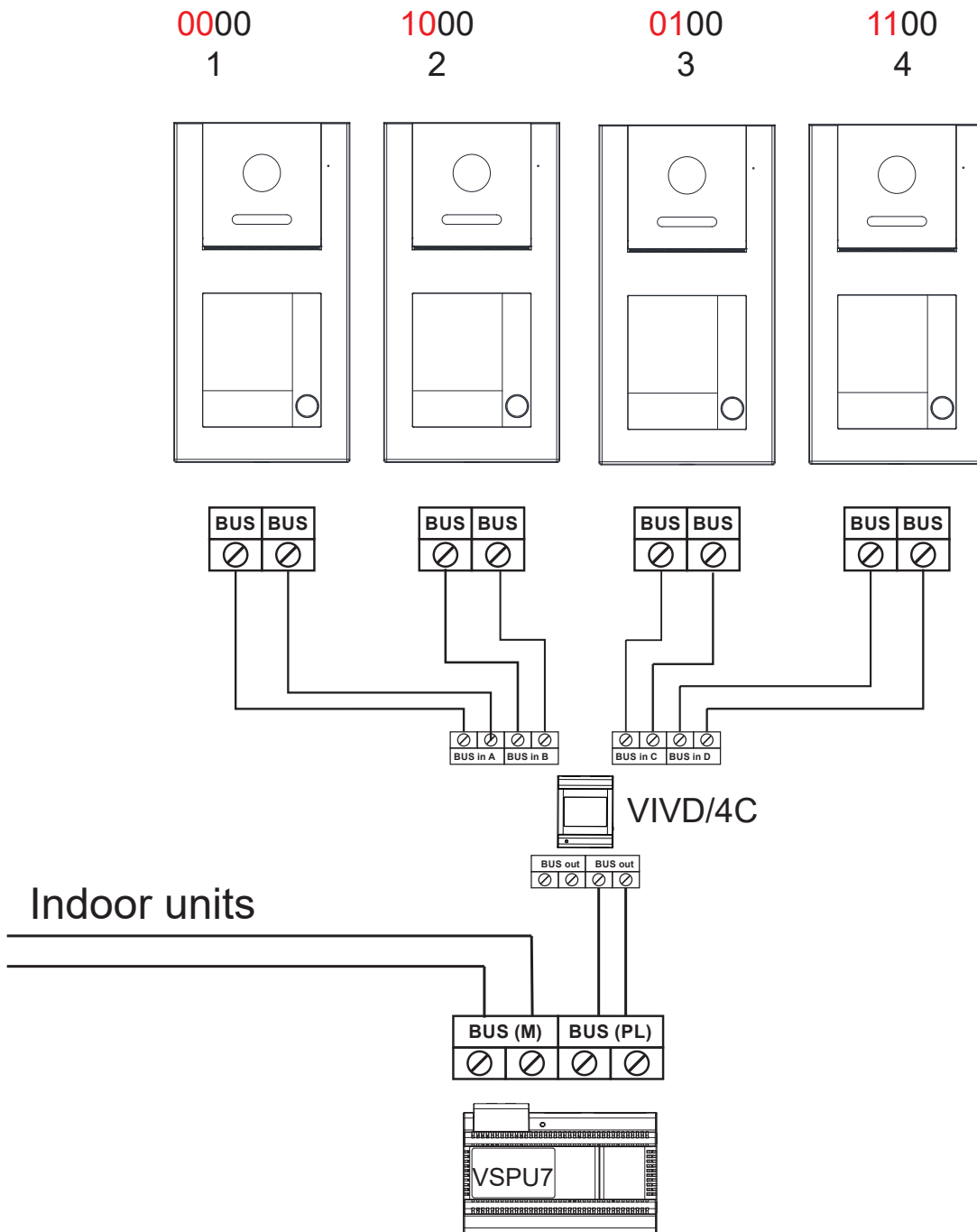
if you keep it with 5s, it will unlock the automatic door lock.

4. Diagram

Type: In-out diagram (Maximum 2 outdoor stations)



Type: star diagram with VOVD



Cable	A	B	C
RVV 2 x 0,75mm ²	30 m	30 m	15 m
Twisted 2 x 0,75mm ²	60 m	60 m	30 m

- A.Distance between the farthest outdoor station and power supply
- B.Distance between the farthest monitor and power supply
- C.Distance between the the farthest monitor and its connected video distributor

7" TOUCH SCREEN MONITOR

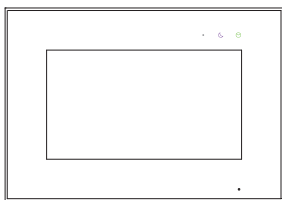


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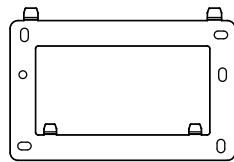
1.Features And Function

- 7 inch capacitive touch screen monitor
- Inner flash memory and micro SD card
- Brightness, color and contrast adjustable
- Ringtone volume & talking volume adjustable
- Built-in WIFI module can support local and remote mobile phone control(optional)
- GUI menu support sliding operation
- 6 melodies for each door station
- Do not disturb function
- Auto&manual video/picture recording
- Point to point or broadcast intercom

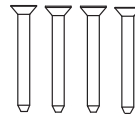
2.Packing Contents



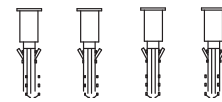
Main body



Wall bracket

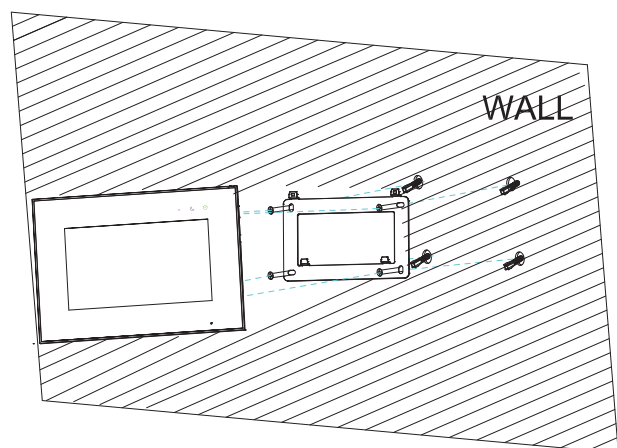
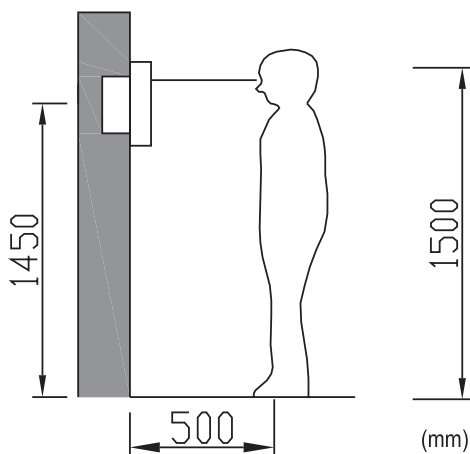


KA M4*35mm
Mounting screw

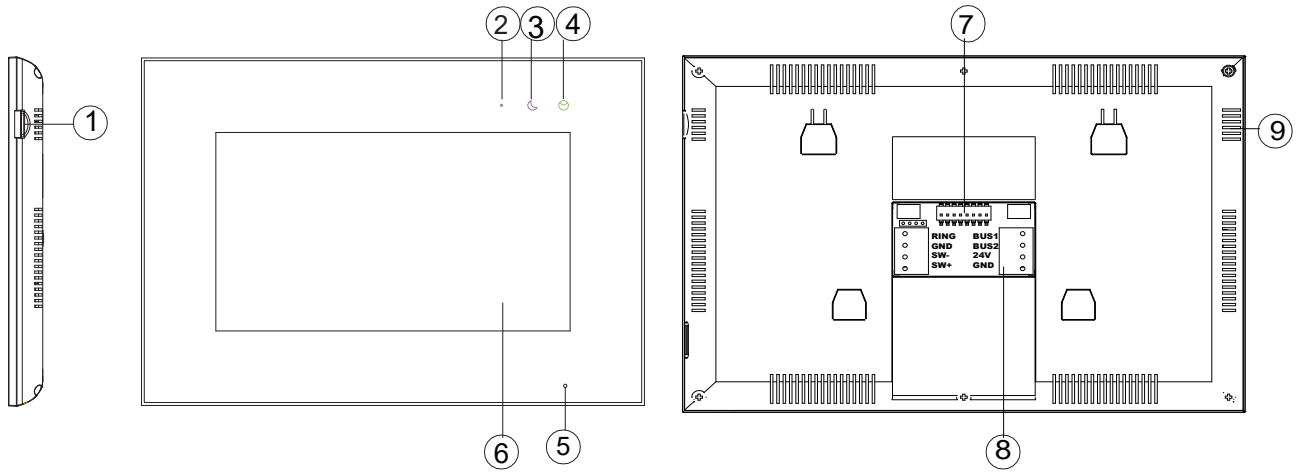


M4*35mm
Plastic expansion pipe

3.Installation



4.Name and Function Of Each Part



RING		BUS	
GND		BUS	
SW-		24V	
SW+		GND	

NO.	Part Name	Description
1	Micro SD Card Slot	Socket for micro SD card
2	Power Indicator	White led when power on
3	Do not disturb mode Indicator	Purple led when mute function enable
4	Message indicator	Green led when have new image/video
5	Microphone	
6	Screen	7 inch digital TFT LCD
7	Switch	Bit-1 ~ Bit 5 are used for indoor monitor address settings. Bit-6 ~ Bit 7 are used for master and slave selection. Bit 8 is used for the impedance switch.
8	Connection Port	BUS1&BUS2:connector for system connection 24V&GND: connector for external Power when WIFI function enable Ring&Gnd:connector for external speaker SW+&SW-: connector for door bell
9	Speaker	

5.DIP-Switch Setting For Indoor Monitor

- 0=down=off ,1=up=on.
- Bit-1 ~ Bit 5 are used for indoor monitor address settings.

Maximum support 32 apartments

- Bit-6 ~ Bit 7 are used for master and slave selection.

Support 1Master , 3 slaves.

- Bit 8 is used for the impedance switch.

Bit 1-5

Code	DIP-switch	Code	DIP-switch	Code	DIP-switch	Code	DIP-switch
1	00000	2	10000	3	01000	4	11000
5	00100	6	10100	7	01100	8	11100
9	00010	10	10010	11	01010	12	11010
13	00110	14	10110	15	01110	16	11110
17	00001	18	10001	19	01001	20	11001
21	00101	22	10101	23	01101	24	11101
25	00011	26	10011	27	01011	28	11011
29	00111	30	10111	31	01111	32	11111

Bit 6-7

Master	Slave1	Slave2	Slave3
00	10	01	11

Bit 8:ON represent open impedance switch,OFF represent close impedance switch.
If the monitor at the end of the bus terminal. Bit 8 should be 1; if not, bit 8 should be 0;

6. Operation Description











6.1 Main Screen

Touch the screen anywhere in standby mode, the main page will be shown as follows:



It will show corresponding functions when pressing each icon on main screen. It will also show more setting page when you slide the main page to the right or left.

※ Icon Definition









	Set the ring melody for monitor/ Intercom		Turn off screen
	Set the date & time of the monitor and select the date format		Set the language of the monitor
	Delete all images or videos in the micro SD card or FLASH,copy all images in the FLASH to micro SD card and format micro SD card		
	reset system to factory settings (except date & time, intercom address)		Enable/disable the mute function
	Set the picture/video record mode or select to turn off the automatic record mode		Switch the background
	Open or close wifi function,Set call forwarding latency or reset the wifi setting		

6.2 Monitor Function

When you press the [Monitor] icon on main screen, the system will enter monitor mode, and will show image from the corresponding door station.



※ Icon Definition

	Capture a picture		Record a video
	Switch the channel		Talk
	Adjust display parameters brightness,color, contrast (have 9 levels)and volume (have 5 levels)		Back to [Main Screen]
	Release the electric lock		Open the automatic door

NOTE:

- 1.You can record a video when insert SD card.
- 2.You can record a video(less than 15s) or capture a picture from the calling door station automatically depending on the system setting.
- 3.Indoor monitor support switch 8 channels,4 camera channels,4 CCTV channels.
- 4.when release the electric lock or open the automatic door,the corresponding pattern will display in the center of the screen.

6.3 Visitor Call

When door station calls in, the visitor's image will be shown on the monitor screen and you can press [Talk] icon to talk with the visitor and press it again to terminate the talk

6.4 Multimedia

6.4.1 Image&Video Storage

If you insert micro SD card, monitor can record images and videos; if you do not insert micro SD card, monitor can only capture images.

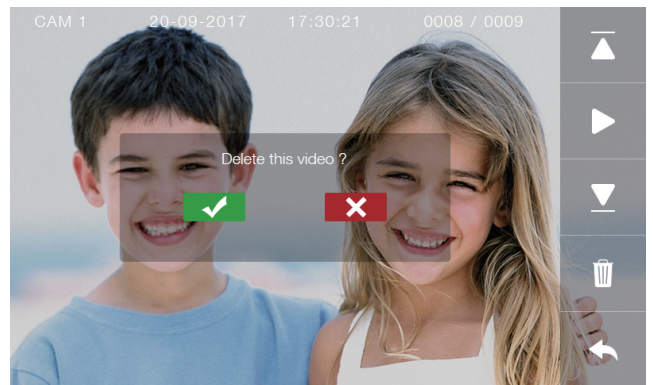
SD card Maximum Capacity: Micro SD card: 1000 images and 1000 videos support 8-32G card, Class10

Inner flash Storage: 100 images

When the storage is full, the newest image/video will automatically cover the oldest image/video.

6.4.2 Image&Video Review

Press [Photo] or [Video] icon on main screen, you can review the image/video. The image/ video list with a red circle means that the image/video is not viewed. You can press the corresponding list directly to review the image/video.



NOTE: 1. Micro SD card must be formatted by monitor before using.
2. Micro SD card is excluded in the kit.

6.4.3 Storage Settings

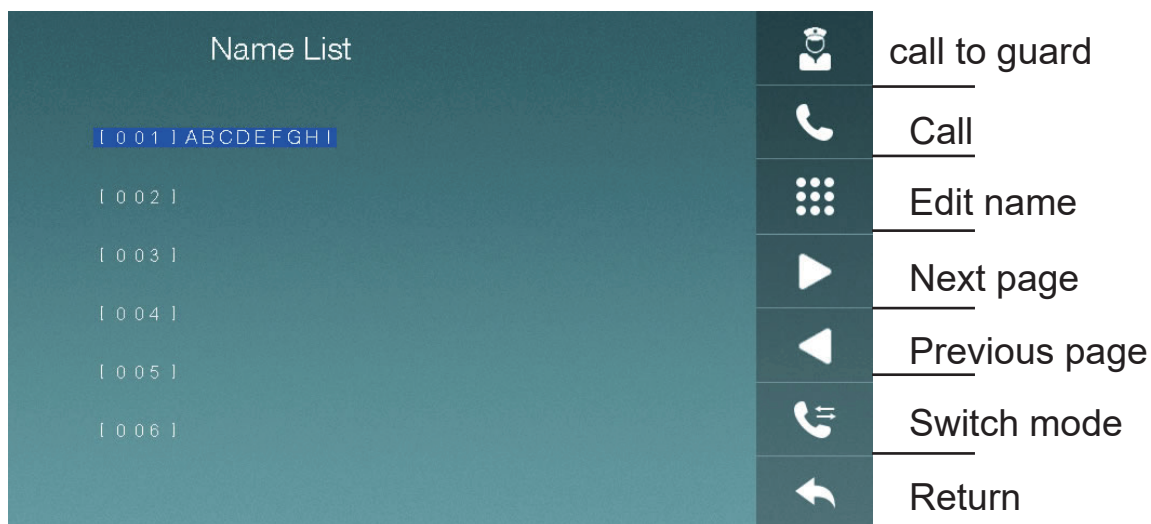
Press the [Memory] icon on main screen,you can set internal storage and micro SD. you can choose an item to operate. You can delete all photos or copy internal storage to SD card.Also you can delete all photos/videos in micro SD or format SD card.



6.5 Intercom Function

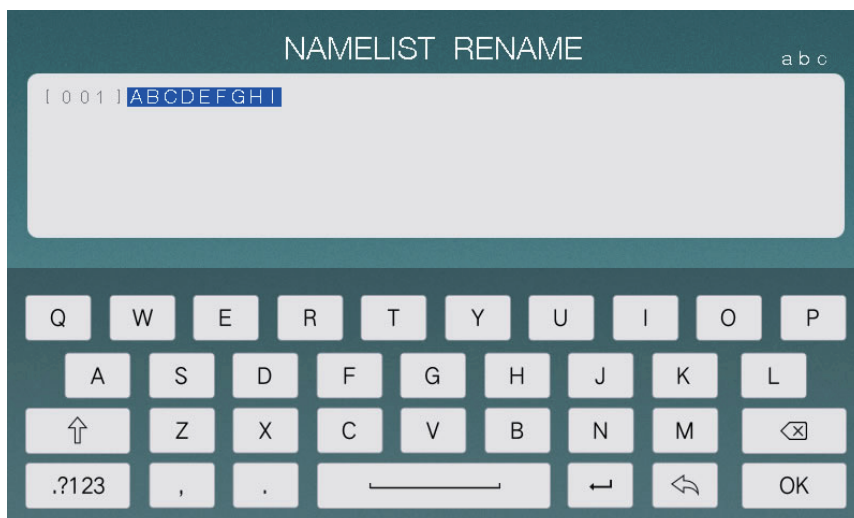
6.5.1 Name List

Press the [Intercom] icon on main screen,you can do intercom and edit the apartment name



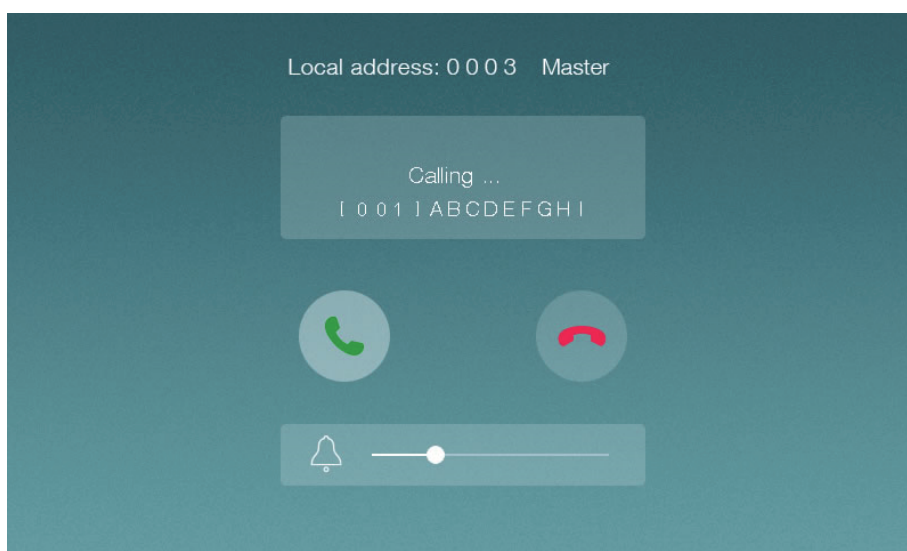
Note: any monitor can be set as a guard by hidden code, if one monitor has been set as guard, the “guard” word will show after the apartment address.

choose the apartment address then press “edit”, you can input the name of the user, Capital and small english letter is supported



6.5.2 Intercom Mode For Apartment

Select the intercom address of the monitor you want to call, and then press [Call] icon to start the call, then you can talk with the corresponding monitor if the called monitor answers the call. The talking and ringtone volume for intercom can be adjusted.



NOTE:

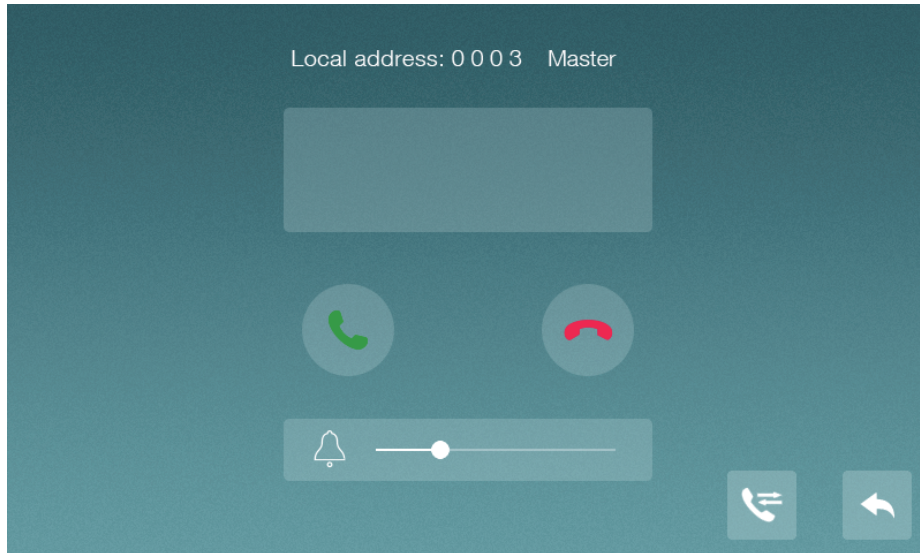
1. Outdoor station calling can interrupt the current intercom,
2. User cannot do Preview ("net busy") when the system have a intercom communication
3. Only Master monitor will ring and light the screen when there is a intercom.
4. you can disable the apartment intercom mode (namelist page) by hidden code.

6.5.3 Intercom Mode For Villa

Press the [Intercom] icon on main screen, and then press [Switch Mode] icon to start the call, Press the [Talk] button All the master and 3 slaves in the same Apartment will ring.

Note: if the monitors are in standby mode, all the monitors will only ring. you can press the buttons to activate screen then answer the call.

if one monitor accept the call, the other will quit the intercom and go to standby mode.

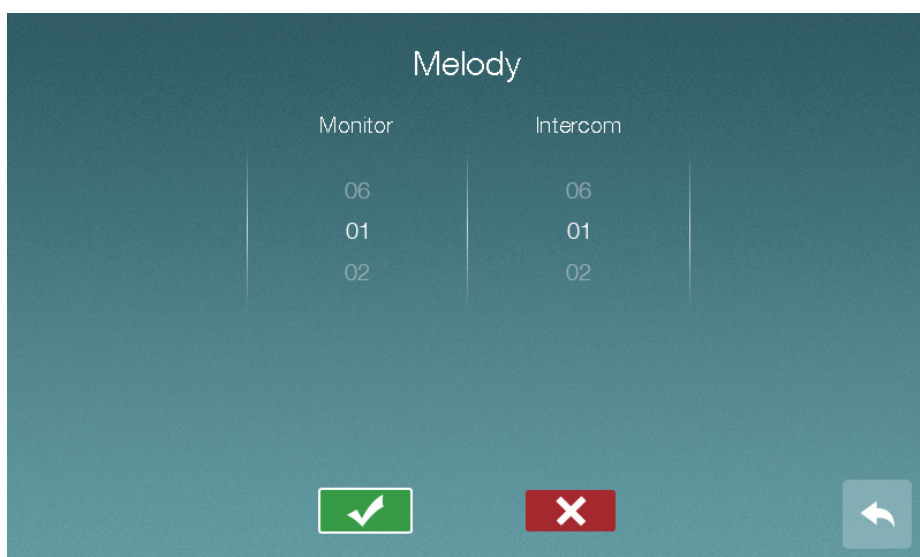


6.6 Setting Page

When the monitor shows main page, you can slide the main page to the right or left and then the screen will show more setting page.

6.6.1 Melody Setting

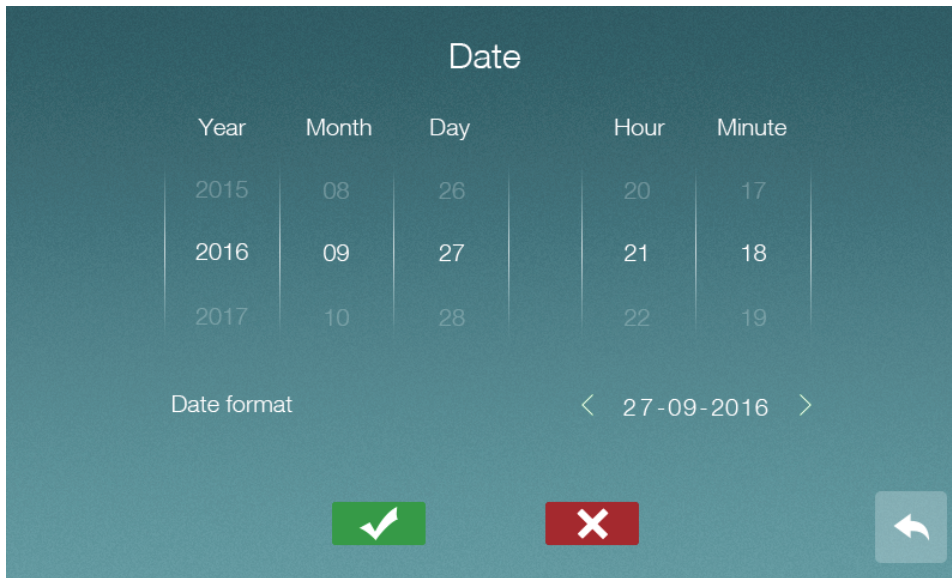
Press the [Melody] icon on main screen, and you can setting ring for monitor or intercom.



NOTE: Monitor and Intercom have six kinds of rings.

6.6.2 Date Setting

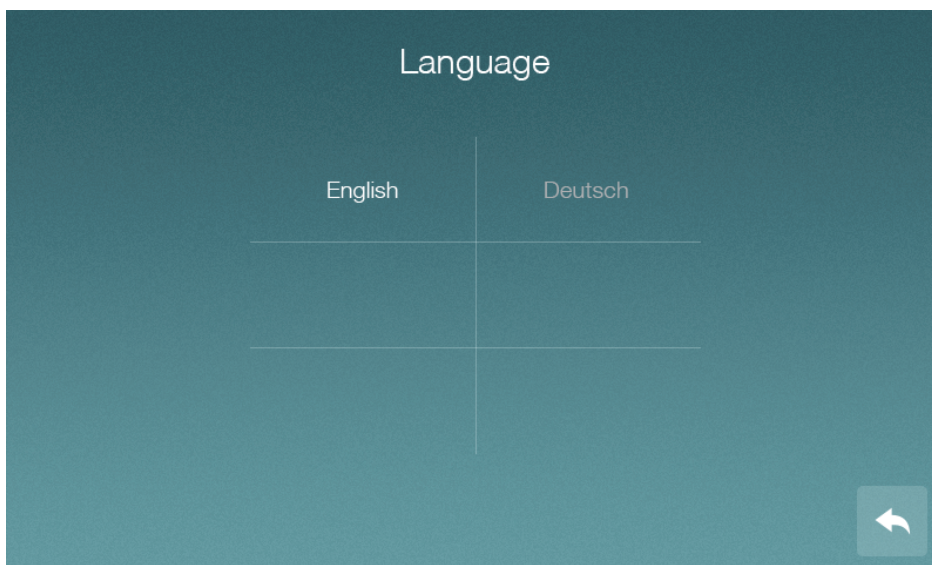
Press the [Date] icon on main screen, and you can adjust date and date mode.



NOTE: There are 3 date patterns: Day-Monuth-Year, Mounth-Day-Year, Year-Mounth-Day

6.6.3 Language Setting

Press the [Language] icon on main screen, you will have 2 languages (English and German) can select.



6.6.4 Reset Setting

Press the [Reset] icon on main screen, restore system to factory settings.

- 1.Mute function disabled
- 2.Auto-Recording mode changed to photo mode.
- 3.Adjust display parameters brightness,color,contrast,volume to middle value.
- 4.Reset Call latency to 0 second
- 5.Reset ring tone to default value

7 WIFI Function

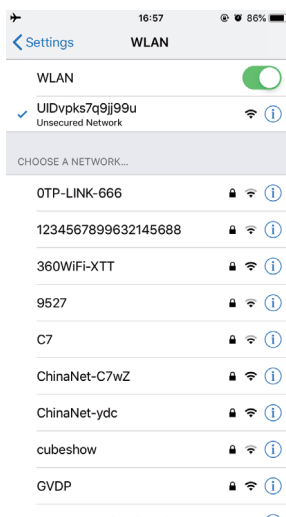
7.1 Add Device

The monitor can work as a WiFi hotspot and connect to home WiFi router.The WiFi settings are controlled by cellphone which uses Android or iOS system .

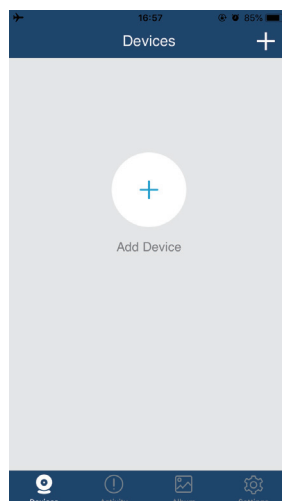
1.Add a new device

- 1.When the monitor is in [WiFi] setting page,select "WiFi factory setting" item to reset WiFi;
2. IOS system should connect with monitor UID(starts with letter "UID"), while Android system connect to home router before configuration.
- 3.Open the application «Qvbell», press the "+" icon and select "New Device" item;
- 4.IOS system select "Wi-Fi Config" item to go to next step, while Android system select "next" and then select the right UID of the monitor go to next;
- 5.Input the WiFi password of home router and wait for the device to configure successfully (if IOS system is connected to home router before configuring, the user only need to input the WiFi password;if not, you need to input WiFi name and password manually);
- 6.You can set the device name,channels and password can be modified after configured successfully.

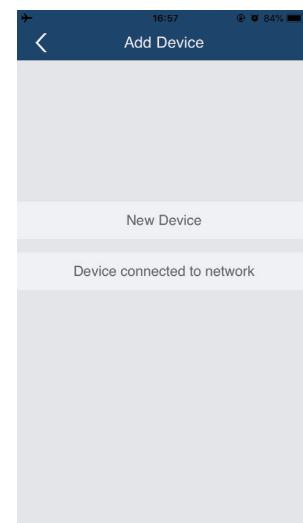
IOS System



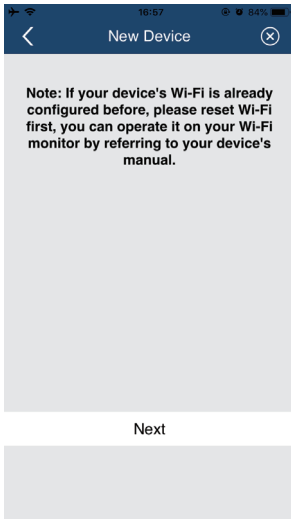
①



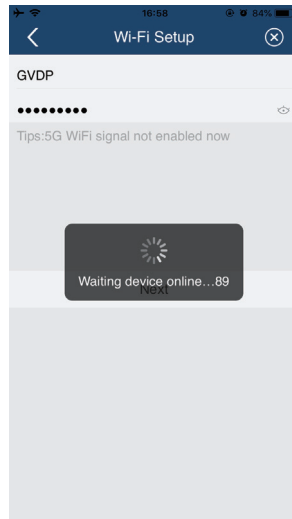
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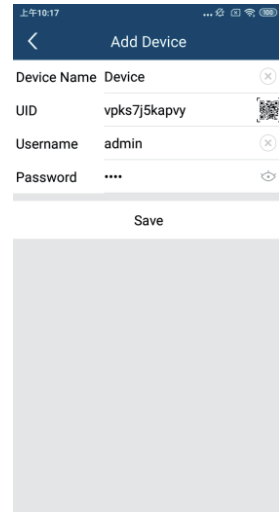
③



4

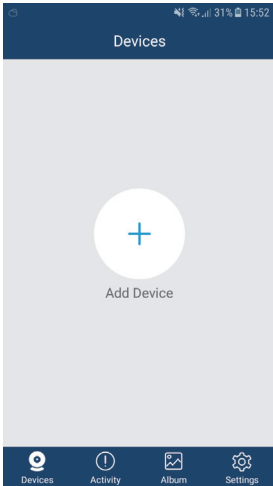


5

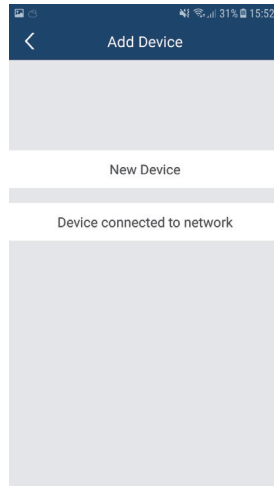


6

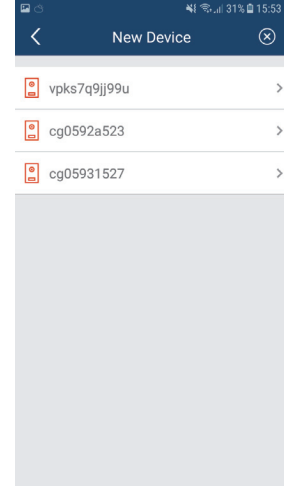
Android System



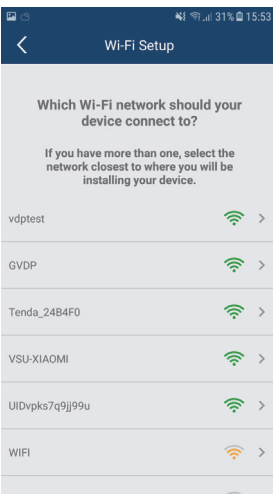
1



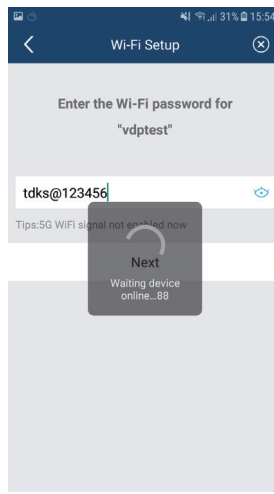
2



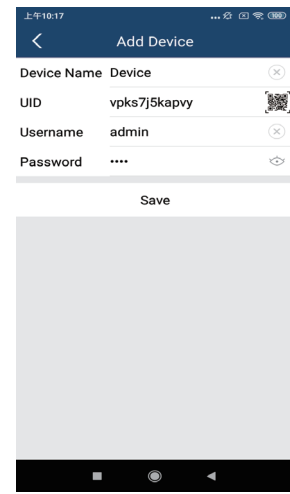
3



4



5



6

NOTE:

1. When configuring WiFi setting on cellphone, if you input the wrong password, you need to reset WiFi setting on monitor again;
2. The home router must be connected to external networks if the call from door station need to be transferred to your cellphone;
3. In order to ensure normal connection, all permissions of the APP «QvBell» needs to be allowed;
4. The UID of the monitor is unique;
5. When you connect the device for the first time, there will be probability of connection failure or the device is off line, please try to reconnect;

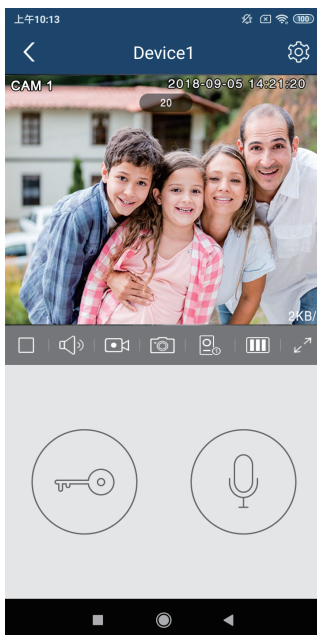
2. Add A Connected Device

Step 1&2 can refer to the above operation.

3. Open the application «QvBell», click the “+” icon and select “Device connected to network” item;
4. Select “Online Device” or “Manual Adding” item (select online device when cellphone and device connect to the same wifi, select manual adding when connect to different wifi), and then select the UID of the monitor;
5. You can set the device name, channels, user name and password (the default password 1234).









7.2 Control The Monitor By Cellphone

1. Select the device and enter the monitor page;
2. Press the setting icon at the upper-right corner and set “Lock Number” to 2 and then press the corresponding lock icon and input the password (1234), and then you can release the door lock and open the automatic door;
3. The monitor screen on the cellphone can be switched to full-screen display mode;
4. An indoor monitor can support up to four cellphones online at same time.



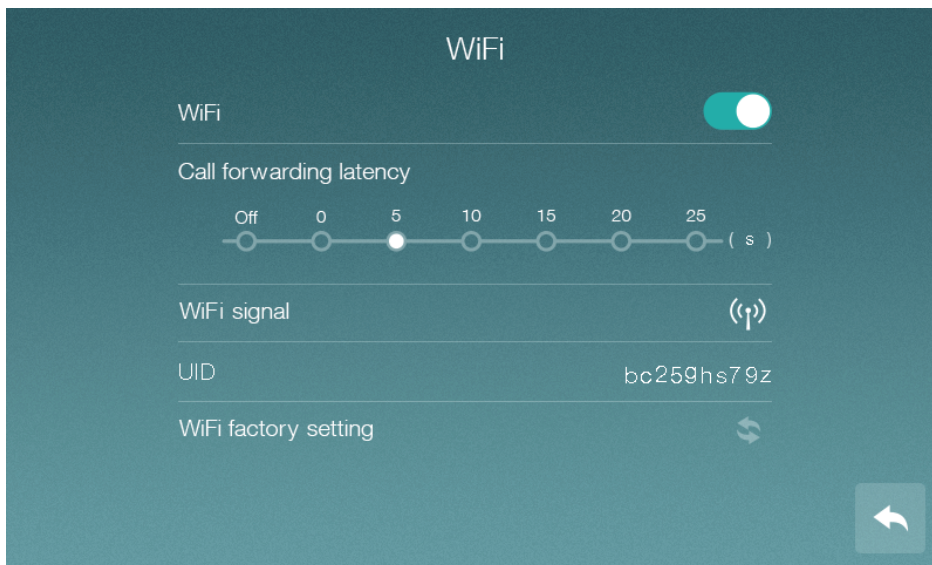


Icon Definition

	Play/Pause		Mute/Unmute
	Capture a picture		Record a video
	Full-screen display		Switch the channels
	Call		Lock

7.3 Monitor wifi setting page

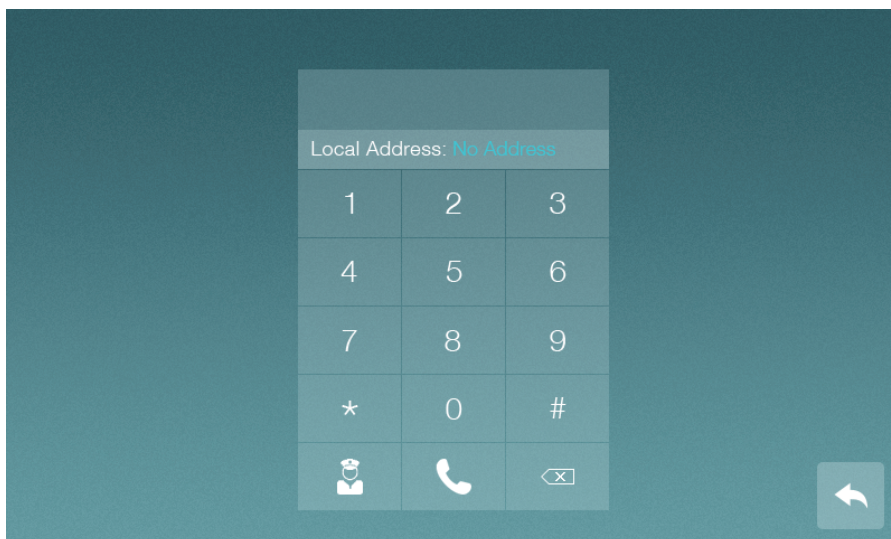
1. When the monitor is in [WiFi] setting page, select "call forwarding latency" item to set the time for call forwarding latency;
2. Press the setting icon at the upper-right corner and turn "Ring Alerts" to ON;
3. When door station calls in, the cellphone will receive message and show ringing page;
4. Press the accept icon and talk with the visitor;
5. Press the lock icon and input the password(1234), and then you can release the door lock.
6. the connected router name will show on the wifi signal area



NOTE:When the cellphone changed SIM card, you need to restart “Ring Alerts” to ensure that the cellphone can receive message normally.

7.Hidden instructions

Press the [Reset] icon,then click the top left corner of the screen 3 times, will appear hidden interface.



Channel enable setting

	ON	OFF
cam 1	0111	0110
CCTV1	0121	0120
cam 2	0131	0130
CCTV2	0141	0140
cam 3	0151	0150
CCTV3	0161	0160
cam 4	0171	0170
CCTV4	0181	0180

Switch setting

GUARD setting	0191	0190
namelist enable	0211	0210

Unlock time setting

lock time (0.5~10S)	Electronic lock	relay lock	exit button unlock delay
cam 1	1101-1120	1201-1220	1301-1320
cam 2	2101-2120	2201-2220	2301-2320
cam 3	3101-3120	3201-3220	3301-3320
cam 4	4101-4120	4201-4220	4301-4320

Note: if one monitor set the value, the other monitors in the system will be synchronized automatically

8.Specifications

Category	Specification
Input power	System power: 30±2V
Memory	SD card: 8-32G 1000pictures &1000 videos Inner flash: 100 pictures
TFT LCD	7 inch digital TFT LCD
LCD Resolution	800(RGB) x 480
Dimensions(mm)	222x154x15(without wall bracket)
Working Temperature	-10°C~ +40°C

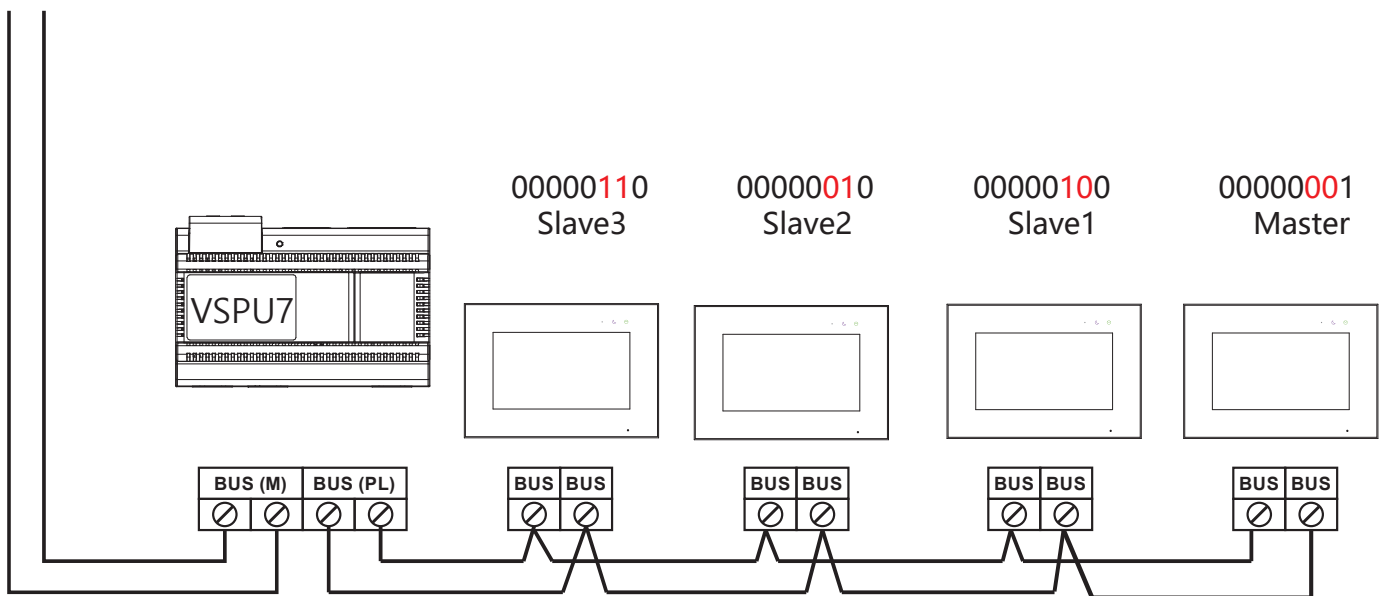
9. System Connection Diagram

Cable	A	B	C
RVV 2 x 0,75mm ²	30 m	30 m	15 m
Twisted 2 x 0,75mm ²	60 m	60 m	30 m

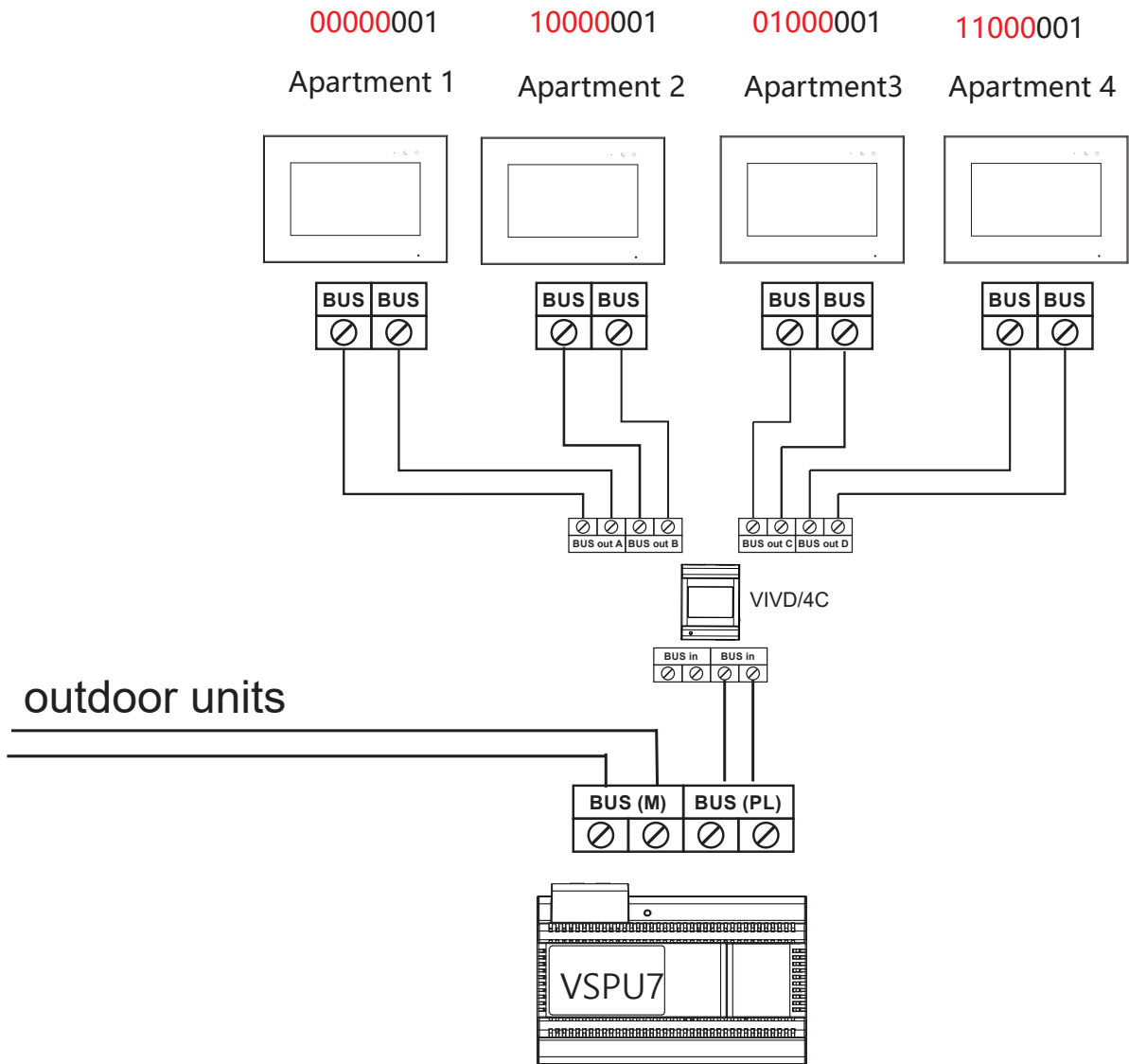
- A.Distance between the farthest outdoor station and power supply
- B.Distance between the farthest monitor and power supply
- C.Distance between the the farthest monitor and its connected video distributor

Type: In-out diagram

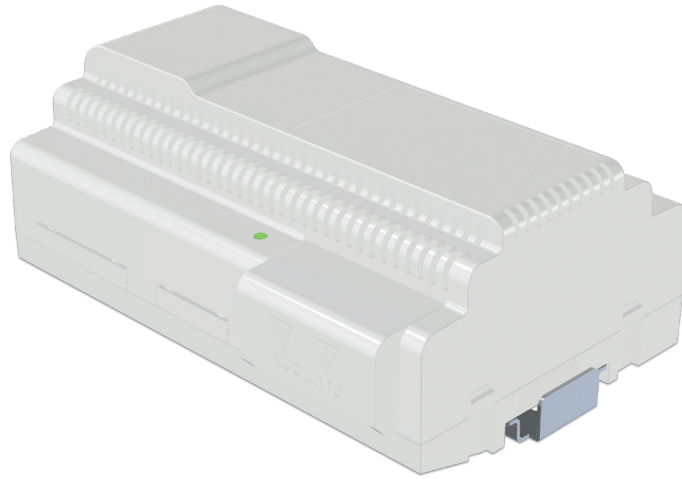
Outdoor Units



Type: star diagram



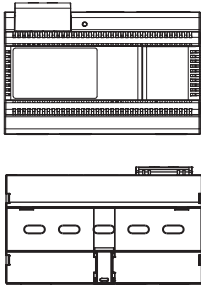
POWER SUPPLY



1. Package contents	33
2. Specification	33
3. Installation	33
4. System Connection Diagram.....	34

System power supply unit

1.Packing Contents



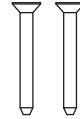
Main body



Din rail



4pin connector



KA M4*35mm
Mounting screw



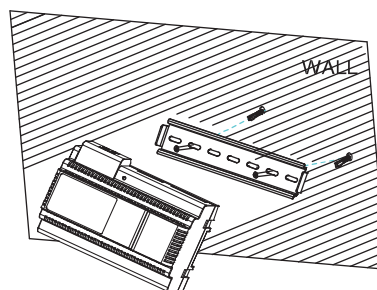
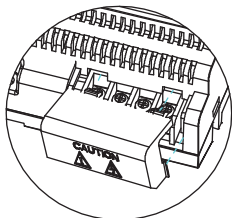
M4*35mm
Plastic expansion pipe

2.Specification

Category	Specification
Input power	AC:100V~240V,0.6A,50Hz/60Hz
Output power	DC:30V±2V,1.2A
Dimensions(mm)	140(W) x 97.5(H) x 58.5(D)

Note: Overcurrent protection :When the current exceeds 1.2A,the ins will be standby

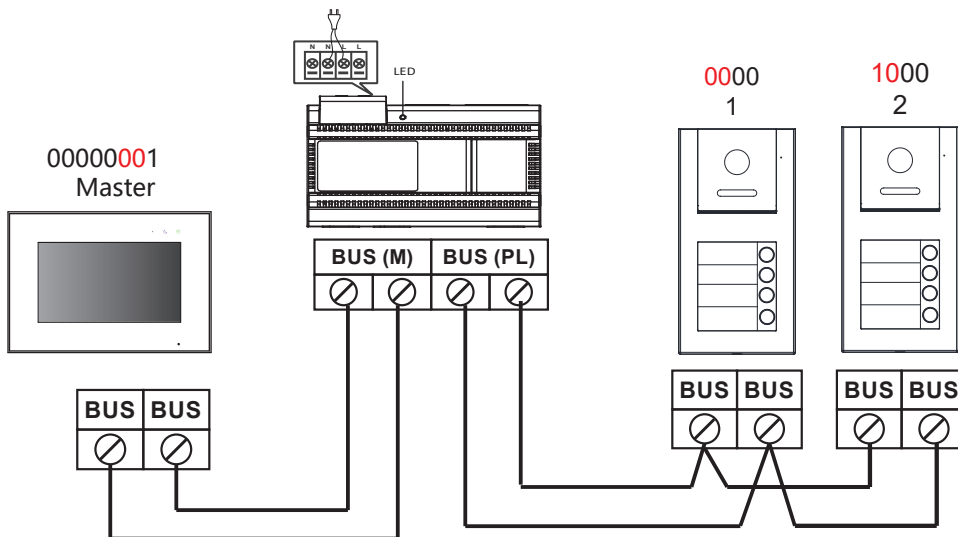
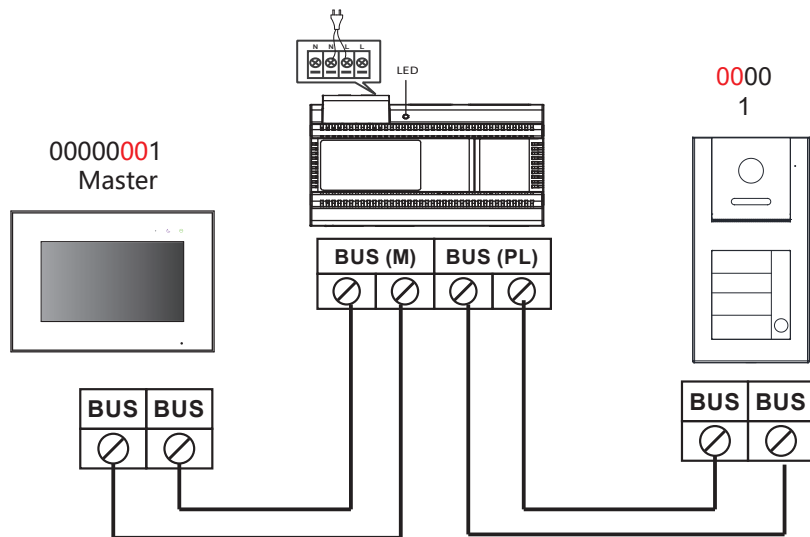
3.Installation

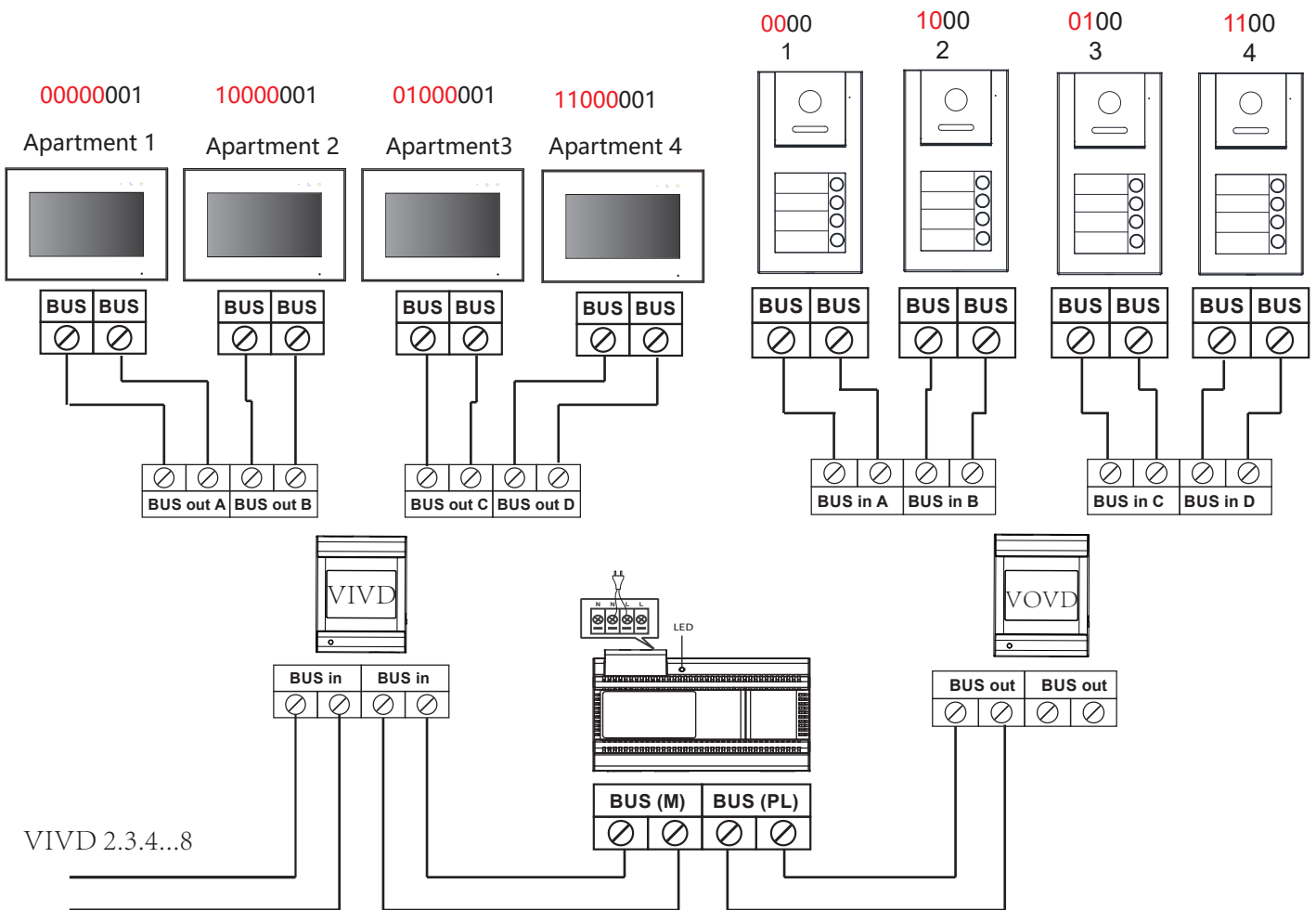
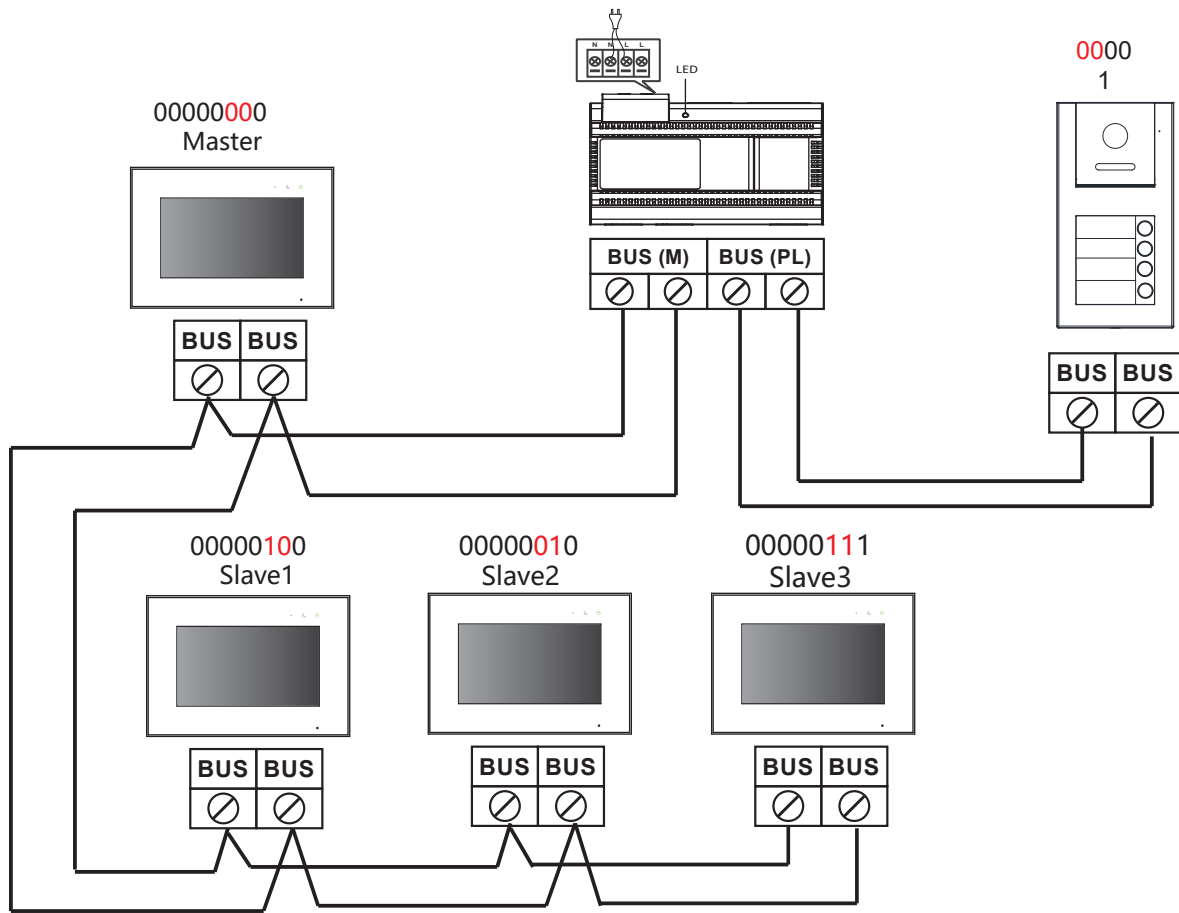


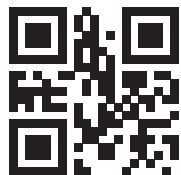
4.System Connection Diagram

Cable	A	B	C
RVV 2 x 0,75mm ²	30 m	30 m	15 m
Twisted 2 x 0,75mm ²	60 m	60 m	30 m

- A.Distance between the farthest outdoor station and power supply
- B.Distance between the farthest monitor and power supply
- C.Distance between the the farthest monitor and its connected video distributor







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