

**VIDEO INTERCOM
SYSTEM FOR
APARTMENT
(NETWORK)**

USER'S MAUAL

QUZHOU ZHUOCHENG ELECTRONIC CO.,LTD

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(Install and Using Instruction)

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CS-200ZW-1



CS-200ZVW-1



CS-200BW-1



CS-200BVW-1



CS-300V-5



CS-300F-1



CS-18V



CS-12V

1.Function Introduction

◇ **Function of managing center:**

Call any indoor phone and be called by any indoor phone;

Be called by door station and overlook photo of door station;

Time show in digital screen

◇ **Function of indoor phone:**

Be called by door station and managing center;

Call managing center and overlook door station automatically

◇ **Function of door station:**

Call indoor phones and managing center,unlock the gate by password

2.Using Method

◇ **Managing center call indoor phones :** input door station and indoor phone number, the corresponding indoor phone ring and user can talk with managing center;

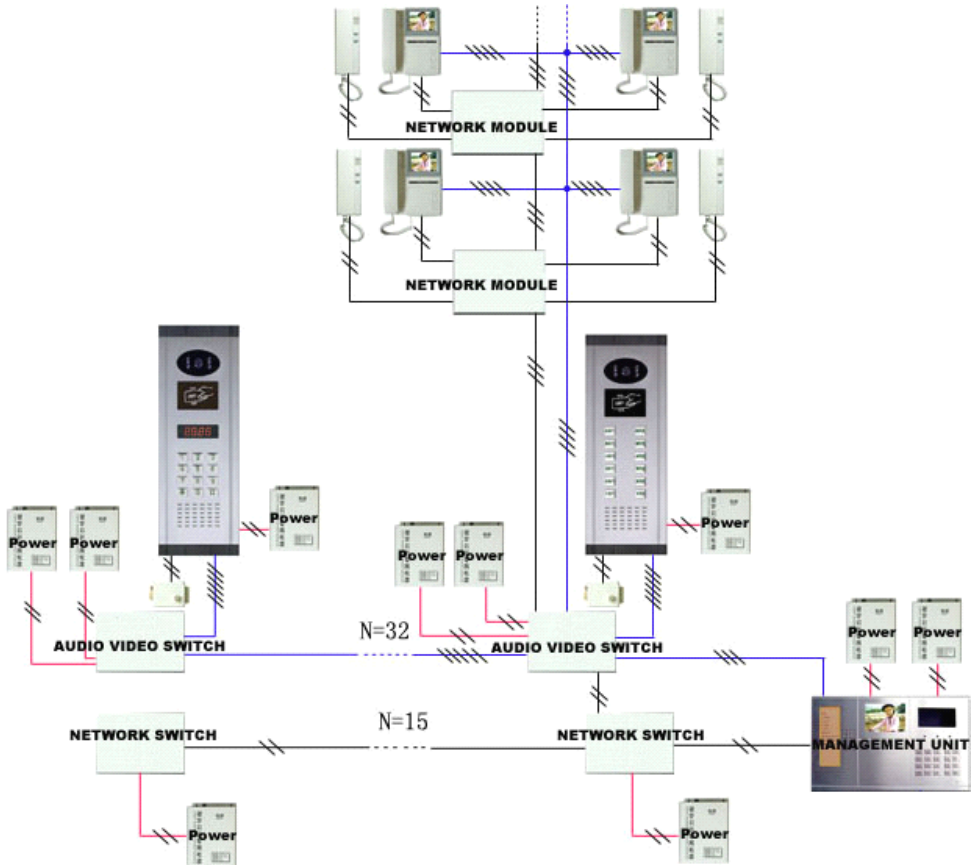
◇ **Door station call managing center:** input specific number(999 or 9999) then it can call and talk with managing center; and managing center can unlock the gate; If it is the video door station,meanwhile the photo will show on managing center;

◇ **Door station call indoor phone:** input indoor phone number,call and talk with corresponding indoor phone , open the gate by press unlock button; If it is the video door station,meanwhile the photo will show on indoor phone;

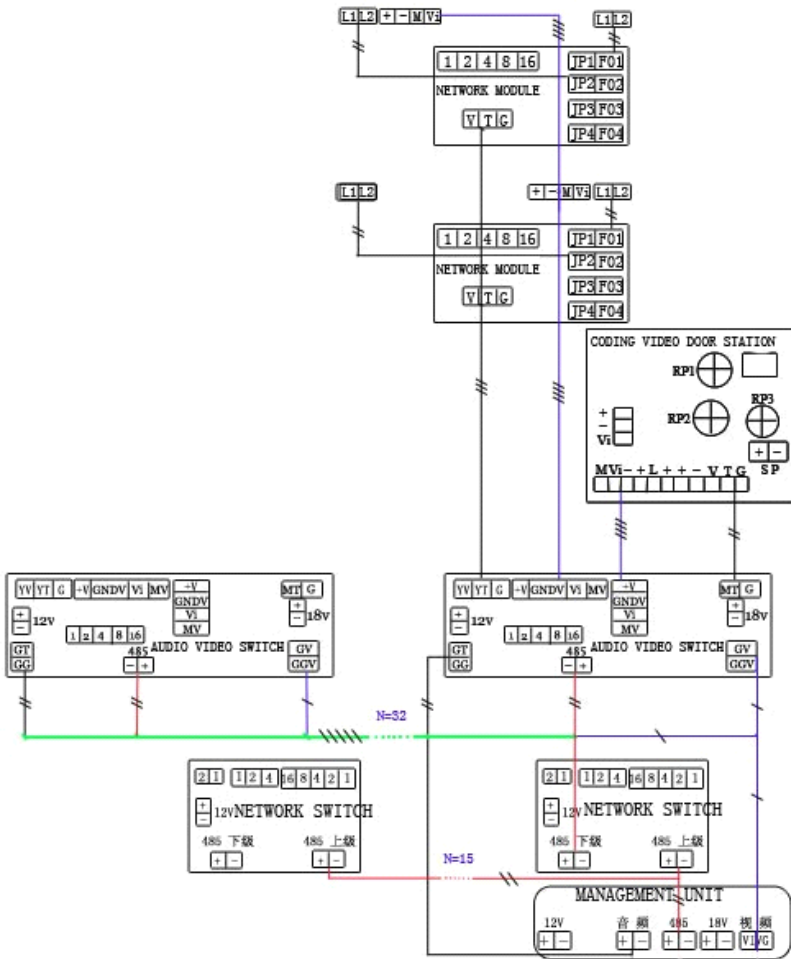
◇ **Indoor phone call managing center:** user can call and talk with managing center by press the call button on indoor phone; If you dial the wrong number,press “#” to cancel and repress.

3.System schematic and Wiring diagram

(1) System structure schematic drawing



(2) system wiring diagram



Wiring Instruction

Managing center to Audio and Video Switcher (Vi→GV 、 VG→GGV 、 Audio+→GT、 Audio-→GG)

Audio and Video Switcher to Door station (MT→T、 G→G)

Network module to Video indoor phone (JP→L1、 F→L2)

4.Code setting

Managing center---Door station number (Building number) setting

There is a comparative table of door station number and Network switcher. Input "**15" to enter into this table, as follows:

(1) **00 XXXX (the original manager password is 2098);
 (2) **15 show A-01.00 (A stands address, 01.00 tells the first address is 01, the second address is 00) input three figures to change current address, press "*" if you don't want to change;

(3) After finishing step (2), the screen will show n-000 or other three figures, input three figures (that is door station number) if you want to change, press "#" if you don't (say only check it), then it will show the next address that's need to be set. If the three figures you input have existed in the table (that's say repetition), then it will show the address of the repeating number. If you input 000 means you don't use this address.

If the code method of door station corresponds with rule of table 3.1, the the managing center provides a quick order "***31". Do as follows: **00、XXXX (Manager password, the original one is 2098) **31, it will come to the programming rule as table 3.1 does. Press **30 to cancel it.

Network door station setting (Building number): it is combined by the two sides contact pin of Network Switcher (that's the first address)

15	8	4	2	1
----	---	---	---	---

 and Audio and Video Switcher (that's the second address)

1	2	4	8	16
---	---	---	---	----

. The first address range from 1 to 15, and the second address range from 00 to 31.

Comparative table of Network Door Station number and the first address

Door Station No.	001...032	033...064	065...096	097...128	129...160
The first address	1	2	3	4	5
Door Station No.	161...192	193...224	225...256	257...288	289...320
The first address	6	7	8	9	10
Door Station No.	321...352	353...384	385...416	417...448	449...480
The first address	11	12	13	14	15

△(e.g.)Setting the 19th door station

$19-32*(N-1)=M+1$ $M=18$ (N is the first address , M is the second address)

The short-circuit block should be inserted in 1 place of the Network Switcher and 2,16 place of the Audio and Video Switcher

△(e.g.)Setting the 52nd door station

$52-32*(N-1)=M+1$ $M=19$ (N is the first address , M is the second address)

The short-circuit block should be inserted in 2 place of the Network Switcher and 1,2,16 place of the Audio and Video Switcher.

5.Table3.1 comparative table of initializing the first building door station number and Network switcher address

Network Switcher address (the first,the second)	Door station NO.	Network Switcher address (the first,the second)	Door station NO.	Network Switcher address (the first,the second)	Door station NO.	Network Switcher address (the first,the second)	Door station NO.
1.00	001	3.00	065	5.00	109	7.00	193
1.01	002	3.01	066	5.01	110	7.01	194
---	---	---	---	---	---	---	---
1.30	031	3.30	095	5.30	159	7.30	223
1.31	032	3.31	096	5.31	160	7.31	224
2.00	033	4.00	097	6.00	161	---	---
2.01	034	4.01	098	6.01	162	---	---
---	---	---	---	---	---	---	---
2.30	063	4.30	127	6.30	191	15.30	479
2.31	064	4.31	128	6.31	192	15.31	480

Managing center---Indoor phone (room number) setting

Managing center provides a comparative table of Network Module and room number.

input“**16”to enter into setting of this table , the steps are the same with door station number setting.

The address of Network Module can be 127.04 at most.If you want to code 100.01 or above address,please enter from 99.04 and add by press* and code when it comes to 100.01 or above.

Quick setting

If code of room number corresponds with the rule of table 3.2 , the managing center provides a quick setting order“**41”.Do as follows:**00 XXXX (Manager password,the original one is 2098) **41 , It will come to the programming rule of table3.2.

If code of room number corresponds with the rule of table 3.3.Then managing center provides a quick setting order“**42”。

If code of room number corresponds with the rule of table 3.4.Then managing center provides a quick setting order“**43”。

Press“**40” to cancel it.

6、Table3.2 comparative table of initializing room number and extension phone address(the 1st kind)

Module address,coding site	Room No.	Module address,coding site	Room No.	Module address,coding site	Room No.	Module address,coding site	Room No.
Y01.1	0101	Y05.1	0501	Y09.1	0901	Y13.1	1301
Y01.2	0102	Y05.2	0502	Y09.2	0902	Y13.2	1302
Y01.3	0103	Y05.3	0503	Y09.3	0903	Y13.3	1303
Y01.4	0104	Y05.4	0504	Y09.4	0904	Y13.4	1304
Y02.1	0201	Y06.1	0601	Y10.1	1001	Y14.1	1401
Y02.2	0202	Y06.2	0602	Y10.2	1002	Y14.2	1402
Y02.3	0203	Y06.3	0603	Y10.3	1003	Y14.3	1403
Y02.4	0204	Y06.4	0604	Y10.4	1004	Y14.4	1404
Y03.1	0301	Y07.1	0701	Y11.1	1101	Y15.1	1501
Y03.2	0302	Y07.2	0702	Y11.2	1102	Y15.2	1502
Y03.3	0303	Y07.3	0703	Y11.3	1103	Y15.3	1503
Y03.4	0304	Y07.4	0704	Y11.4	1104	Y15.4	1504
Y04.1	0401	Y08.1	0801	Y12.1	1201
Y04.2	0402	Y08.2	0802	Y12.2	1202	Y99.2	9902
Y04.3	0403	Y08.3	0803	Y12.3	1203	Y99.3	9903
Y04.4	0404	Y08.4	0804	Y12.4	1204	Y99.4	9904

7、 Table3.3 comparative table of initializing room number and extension phone address(the 2nd kind)

Module address,coding site	Room No.	Module address,coding site	Room No.	Module address,coding site	Room No.	Module address,coding site	Room No.
Y01.1	0101	Y05.1	0901	Y09.1	1701	Y13.1	2501
Y01.2	0102	Y05.2	0902	Y09.2	1702	Y13.2	2502
Y01.3	0201	Y05.3	1001	Y09.3	1801	Y13.3	2601
Y01.4	0202	Y05.4	1002	Y09.4	1802	Y13.4	2602
Y02.1	0301	Y06.1	1101	Y10.1	1901	Y14.1	2701
Y02.2	0302	Y06.2	1102	Y10.2	1902	Y14.2	2702
Y02.3	0401	Y06.3	1201	Y10.3	2001	Y14.3	2801
Y02.4	0402	Y06.4	1202	Y10.4	2002	Y14.4	2802
Y03.1	0501	Y07.1	1301	Y11.1	2101	Y15.1	2901
Y03.2	0502	Y07.2	1302	Y11.2	2102	Y15.2	2902
Y03.3	0601	Y07.3	1401	Y11.3	2201	Y15.3	3001
Y03.4	0602	Y07.4	1402	Y11.4	2202	Y15.4	3002
Y04.1	0701	Y08.1	1501	Y12.1	2301
Y04.2	0702	Y08.2	1502	Y12.2	2302	Y49.4	9802
Y04.3	0801	Y08.3	1601	Y12.3	2401	Y50.1	9901
Y04.4	0802	Y08.4	1602	Y12.4	2402	Y50.2	9902

8、 Table3.4 comparative table of initializing room number and extension phone address(the 3rd kind)

Module address,coding site	Room No.	Module address,coding site	Room No.	Module address,coding site	Room No.	Module address,coding site	Room No.
Y01.1	0101	Y05.1	0301	Y09.1	0501	Y13.1	0701
Y01.2	0102	Y05.2	0302	Y09.2	0502	Y13.2	0702
Y01.3	0103	Y05.3	0303	Y09.3	0503	Y13.3	0703
Y01.4	0104	Y05.4	0304	Y09.4	0504	Y13.4	0704
Y02.1	0105	Y06.1	0305	Y10.1	0505	Y14.1	0705
Y02.2	0106	Y06.2	0306	Y10.2	0506	Y14.2	0706
Y02.3	0107	Y06.3	0307	Y10.3	0507	Y14.3	0707
Y02.4	0108	Y06.4	0308	Y10.4	0508	Y14.4	0708
Y03.1	0201	Y07.1	0401	Y11.1	0601
Y03.2	0202	Y07.2	0402	Y11.2	0602	126.02	6306
Y03.3	0203	Y07.3	0403	Y11.3	0603	126.03	6307
Y03.4	0204	Y07.4	0404	Y11.4	0604	126.04	6308
Y04.1	0205	Y08.1	0405	Y12.1	0605	127.01	6401
Y04.2	0206	Y08.2	0406	Y12.2	0606	127.02	6402
Y04.3	0207	Y08.3	0407	Y12.3	0607	127.03	6403
Y04.4	0208	Y08.4	0408	Y12.4	0608	127.04	6404

9、Indoor phone setting

(1) **00 XXXX (Manager Password, the original is 2098);

(2) **15 and come up with Y011 (Y stands for address, the 2nd and 3rd figure stand for module address, the 4th figure is the coding site), input three figures to change the current address, Press“#”if you don’t want to change.

(3) After finishing step (2) ,it will come up to four figures, Input four number(say room number) if you want to change, press“#”if you don’t(say only check it), then it will show the next address that’s need to be set. If you input 0000 means you don’t use this address:

Quick setting:

If the coding method of indoor phones corresponds with rule of table 3.2, Then door station provides a quick setting order“**41”. Do as follows: **00 XXXX (Manager Password) **41, Then it will come to the programming rule of table 3.2.

If the coding method of indoor phones corresponds with rule of table 3.3, Then door station provides a quick setting order“**42”.

If the coding method of indoor phone corresponds with rule of table 3.4, Then door station provides a quick setting order“**43”.

Press“**40” to cancel it.

Room number setting: It is combined by the two sides contact pin of Network Module

1	2	4	8	16	32
---	---	---	---	----	----

 and(JP1、F01)、(JP2、F02)、(JP3、F03)、(JP4、F04)。

If the module address you want is 01: the block of short-circuit should be inserted in 1 place.

If the module address you want is 03: the block of short-circuit should be inserted in 1,2 place.

If the module address you want is 07: the block of short-circuit should be inserted in 1,2,4 place

If the module address you want is 19: the block of short-circuit should be inserted in 1,2,16 place

You can get other module address according this method.

Coding site 01-04 connect with (JP1, F01), (JP2, F02), (JP3, F03), (JP4, F04)。

The comparative table of Network Module and room number, please see page9 and 10。

10.Door station setting in Network system

In Network system,it must use “Onmipotent Coding” Method , Press“**02”to change the coding state into”0”.

Press“**21”to change the network state into”1”

11. Door station setting order

Code order	Digit code	Significance	Memo
*000	XXXX	The manager unlock the gate	
**00	XXXX (4 password)	Confirming the manager password	Confirm manager password before using order from *00 to **21 (Original is 2098)
**01	XXXX (4 new password)	Revising the manager password	
**02	000X	Revising coding method	The efficient number are 1.2.3.6.7.8.9.0, "0" is the onnipotent coding (Tacitly approves No. is 2)
**03	0XXX	Revising ringing time	001—255 seconds (Tacitly approves is 60)
**04	0XXX	Revising dialogue time	001—255 seconds (Tacitly approves is 120)
**05	000X	Choosing ringing type	0—9 (0 is Dingdong sound, 1—9 are phone sound) (Tacitly approves is 0)
**06	0XXX	Revising waiting time after ringing	001—255 seconds (the user also can answer the phone after the ring stopped) (Tacitly approves No. is 1)
**07	0XXX	Revising the time of operating lock	001—255 seconds (unit is 0.2 second, tacitly approves No. is 5, namely the time of unlocking is 1 second)
**08	0XXX	Revising waiting time after unlocking gate	001—255 seconds (talking time after opening the door) (tacitly approves No. is 20)
**09	000X	Demonstration type at standby state	0—9 (Tacitly approves No. is 1) (0 is off, 1—9 are to demonstrate)
**10	000X	Controlling the code tube to demonstrate or slake when pick up phone	0—1 (Tacitly approves No. is 1) ("0" is to slake, "1" is to demonstrate)

**11	0XXX	Revising alarm time	000 – 255 seconds , 000-close the alarm function (Tacitly approves No. is000)
**12	0XXX (serial No.) XXXX (password)	Manager revising the unlock password of users	The scope of serial number: 000—239 Password 0000 is to cancel
**13	XXXX XXXX	Establishing eight public password to unlock door	Password 0000 is to cancel
**15	YXXX (Module address)	Edit omnipotent coding table	See the comparative table of omnipotent coding for reference
**16	000X	Choosing the dialing digit	Only be suitable for the omnipotent coding the effective number is1.2.2.2,(tacitly approves NO. is 3)
**17	000X	Choosing which digit to demonstrate a letter	The effective digit is 1-4,or the tacitly approves demonstrate no letter
**18	XXXX(room No.)	Check room number of omnipotent coding	Checking the module address of the room number in table omnipotent coding
19		Restoring factory setting	Restoring the digits02--**11、 **16--**17 are the factory tacitly approves No
**21	000X	Network or not	0—Non-network (tacitly approve) 1—Network

12.User's operational order

Order	Order code	Following code	Memo
The user revises the password of unlocking	**20	0xxx(serial number)xxxx(old password) 8535(confirm code)xxxx(new password)	Serial Number's range of validity 001—239
The user unlock door by password	*xxx (Serial Number)	xxxx(password)	Serial number's range of validity 001—239
Unlock door by public password	*250	xxxx xxxx(eight number)	

13. Wrong code form

Wrong code	Significance	Wrong code	Significance
E01	overtime	E07	The extension phone or the main line open circuit
E02	Wrong order	E08	The extension phone or the main line short-circuit
E03	Wrong password	E09	Scope mistake of module address when coding in onnipotent coding
E04	Data-in over scope	E10	The repetition of room number when coding in onnipotent coding
E05	Wrong room number	E11	Can't find the room number in table onnipotent coding
E06	Forbidden call	FXXX	Input wrong password three times and keyboard is locked

14. Setting the number of door station calling managing center

If the number call managing center is 999, then do as follows:

**00 2098

**15 when it comes with Y011, then input "001"

After it comes with FFFF or another four figures, then please input "0999"

15. Address setting instruction

(1) Network module: Set address as JP6, it is effective only when the short-circuit block is inserted. The number you set must be the same with floor number.

(2) Audio and Video Switcher: Set address as JP4, it is effective only when the short-circuit block is inserted, don't do anything on Sw4 (keep the contact pin open circuit). The number is building number reduce one.

(3) Network Switcher: the scope is 0-31, it is effective only when the short-circuit block is inserted, Scale setting, the scope is 1-2, it is effective only when the short-circuit block is inserted

16.Setting order of enclosure station

Order code	Digital code	Significance	MEMO
**00	XXXX (4 password)	Confirming manager password	Confirm manager password before using the order from **00 to **19 (tacitly approves is 2098)
**01	XXXX	Revising manager password	Digital code is 4 new password
**02	XX	Revising coding method	00—rule of room in each building is the same.say door station and room number can be set separately 01—rule of room in each building is different. 6 number can be set as any figure
**10	XX	Set which digit to demonstrate a letter	It will show A-J in digit tube. and correspond with figure 1—9、0 Managing center will change letter into figure. All room number must be figure.
**15		Edit comparative table of room number	Reference the comparative table of onnipotent coding
**16		Edit comparative table of door station	
**17	00XX	Choosing dialing digit	The third figure is door station number,the forth number is room number Only can input one group of follows: 23、24、33
**20	XX	Set the address of this door station	The scope of address: 16-19
**30		Clear the table	
**31		Prevising the first door station table	Reference table 3.1
**40		Clear the table	
**41		Prevising the first room number table	Reference table3.2
**42		Prevising the second room number table	Reference table3.3
**43		Prevising the third room number table	Reference table 3.4
**50		Clear those door station table with different rule	

17. Managing center setting order

Pic2.1 Schematic Introduction of keyboard

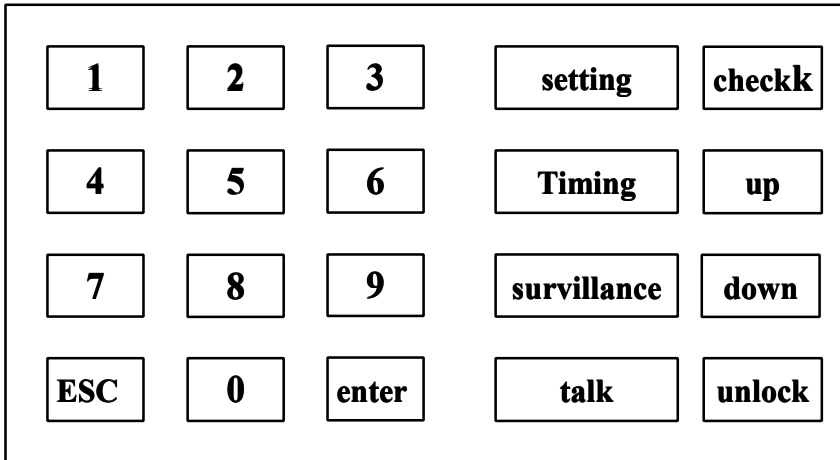


Table2.2 Wrong code form of managing center

Wrong code	Significance	Wrong code	Significance
E01	Overtime	E08	The extension or main line short-circuit
E02	Wrong order	E09	Scope mistake of module address when coding in omnipotent coding
E03	Wrong password	E10	The repetition of room number when coding in omnipotent coding
E04	Data-in over scope	E11	Can't find the room No. in table omnipotent coding
E05	Wrong room number	E12	The data is unable to transmit
E06	Forbidden call	E13	No answer signal
E07	The extension or main line open circuit	E14	The line is busy

Table2.3 Order setting form of managing center

Order code	Digital code	Significance	MEMO
Timing	XX XXXX XX XXXX	Adjusting date and time	Anyone can do it
00	XXXX (4 password)	Confirm manager password	Confirm manager password before using order from**00 to **19(tacitly approves No. is 2098
01	XXXX	Revising manager password	
02	XX	Revising coding method	Cancel now
10	XX	Set which place to show a letter	Cancel now
12	X	Using method of alarm	1—each room uses one,2—two rooms use one, 4—four rooms use one (it only can be each room uses on)
13		Edit comparative table of alarm door station	
14	X	Edit comparative table of alarm room"	
15		Edit comparative table of intercom door station	
16	X	Edit comparative table of intercom room	
17	00XX	Set number of dialling	Input two numbers. effective number is 23, 24
18			
30			
31	XXX	Previsie comparative table of intercom door station	Input door station number, (Tacitly approves is 001)
35		Clear the table	

36	XXX	Previs comparative table of alarm door station	Input door station number, (Tacitly approves is 001)
40	X	Clear the table	
41	XX.XX	Previs the first room comparative table	Input four figures.The first two is the quantity of module in each floor."00" means every two floors use one module; The last two is the min number of the room number
42	XX.XX	Previs the second room comparative table	
...	
49	XX.XX	Previs the ninth room comparative table	
50	X	Clear the table	
51	XX.XX	Previs the first alarm room comparative table	Input four figure, the first two is the quantity of room in each floor.; the last two is the min number of room number.
52	XX.XX	Previs the second alarm room comparative table	
...	
59	XX.XX	Previs the ninth alarm room comparative table	
60		Clear alarm table	
99	XXXX XXXX (8 password)	Restore manager password	Please call for 8 password when you need

18.Wiring requirment and attentions

Wiring requirment

(1)、Embed the tube systematically in the building.The diameter of the vertical tube is no less than 16 mm, the diameter of parallel tube is no less than 16 mm。

(2)、Use wires accord with the technical specification of our company

Connect line	Line type	lence	Min Cross-sectional area or type of wire
From Audio and Video Switcher to Network Module	Audio bus (three wicks)	Under 30m	0.3mm²
		30-50m	0.5mm²
		50-75m	0.75mm²
		75-100m	1.00mm²
From Network Module to Indoor	Audio branch (two wicks)	Under 20m	0.3mm²
		20-50m	0.5mm²
Between Network Switcher	485bus	Under 500m	0.3mm²
		500-1000m	0.5mm²
		1000-1500m	0.75mm²
		1500-2000m	1.00mm²
Door station to Managing center	Audio line (two wicks)	Under 50m	0.15mm²
		500-1000m	0.3mm²
		1000-1500m	0.5mm²
		1500-2000m	0.75mm²
Power Line	(two wicks)	Under 30m	0.5mm²
		30-50m	0.75mm²
		50-80m	1.00mm²
		Over 80m	1.50mm²
Video line		Under 500m	SYV-75-3
		500-1000m	SYV-75-5
		1000-2000m	SYV-75-7

(3)、 This system is weak power system,so don't use the same cable with strong power , when it come across strong power,make sure the distance between them is over 30cm or add a severance between them.

(4)、 The wiring connection must be with the same color。 Don't cut off the grounding shielding(iron) wire.If it must be cut off because of construction,then please reconsider after finishing the construction。 The iron wire at the bottom of the floor must be grounded。

(5)、 All the connector must solder with tin to make sure the contact is good.And add a thermal unit to protect it.

(6)、 For the convenience of construction and aegis,the wiring of terminal must connect with right number.

Wiring Attentions

1、 Door Station,Network Switcher and Audio & Video Switcher should use UPS seperately.

2、 The balance point of managing center and door station is affected by the lenth of cable.So you must re-adjust the balance Potentiometers

3、 When there are more than one Audio and Video Switcher parallel connect with one door station,there are many series of cable bus to Network Module.In this condition,each cable bus can't use the same electric cable,or else it will interfere with each other.

4、 There can't be too long branch in 485 data bus and video bus.This branch can cause signal reflex and data line mistake or two video pictures.It will be better to use series connection,that's the branch connector is in the wiring terminal of each equipment.

5、 The type and cross-sectional area of the wire, see table5.1.Please don't use wire with small cross-sectional area to instead of those wires with big.Because the wire with big cross-sectional will enlarge the electric capacity and assure performance of the system