

# CODING INTERCOM

---



**USER'S MANUAL**

## Contents

Section Description	page
I 、 System instruction -----	2-6
▲ Main Products-----	2-3
▲ Description of indoor phone-----	4
▲ Description of Door station-----	5
▲ System features-----	6
II 、 Technical parameter-----	6
III、 Code setting-----	7-9
IV、 Use method and problem dealing-----	9-14
V 、 System schematic and wiring diagram-----	15-16
VI、 Door station setting order-----	17
VII、 User’s operational order-----	18
VIII、 Wrong code form-----	18
IX、 Attentions-----	19-21

## 1、 System instruction

Coding video and audio intercom system mainly consists of the door station, the module, indoor phones, the power source and so on, which is extremely suit for the high building.

### ▲ Main Products

#### Door station



CS-200B-4



CS-200B-4IC



CS-200BV-4



CS-200BV-4IC



CS-200B-1



CS-200B-1IC



CS-200BV-1



CS-200BV-1IC

## Indoor phones



CS-300SV-1



CS-300SV-2



CS-300SV-3



CS-300SV-4



CS-300SV-5



CS-300F

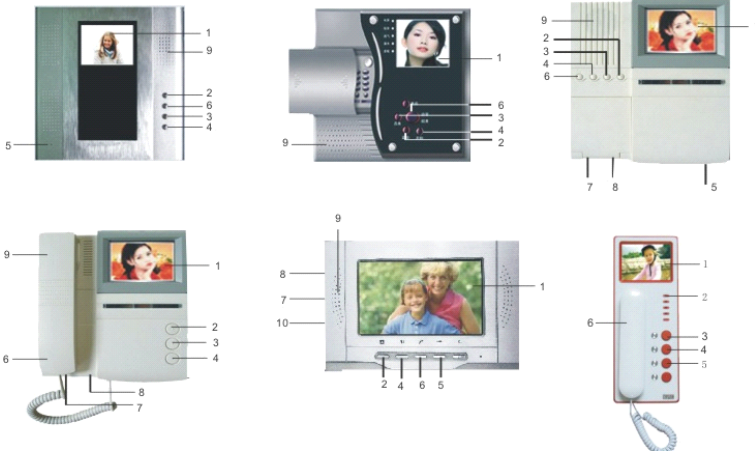


CS-300SV-8



CS-300SV-6

## ▲ Description of indoor phone



Location	Description	Function
1	4" /7" Indoor phone Screen	Identify Visitor
2	Power Light	Indicates Power On
3	Monitor Button	View Picture On Indoor phone
4	Call/Alarm( Alarm may choose ) Button	Activate Alarm
5	Unlock Button	Operate Electric Door Lock
6	Microphone	Speak to Visitor
7	Talk Button	Telephone conversation
8	Brightness	Adjust brightness of Indoor phone
9	Contrast Adjustment	Adjust contrast of Indoor phone
10	Receiver	Listen to Visitor

## ▲ Description of Door station



Location	Description	Function
1	Camera Lens	Sends Picture To Monitor
2	Night Vision Light	Illuminates Area In Darkness
3	Speaker	Enables You To Speak To Visitor
4	Door Bell Button	Pressing Gives Ding Dong Sound
5	Microphone	Enables Visitor To Speak To You

## ▲ System features

LED inside the door station provides a clear picture even at night.

It is with all functions and features that video and audio coding intercom system have

Video indoor phones can be installed with audio indoor phones together, which is very flexible and convenient.

## II、 Technical parameter

- Working voltage: DC10.8V~16V
- The undistorted power of output:
  - The main channel: 5mw min
  - The reply channel: 100mw min
- Frequency response: 300~3400HZ±3db
- Environment temperature : -40°C to +70°C
- Humidity: 45% to 95%
- Working current of camera: 500mA±20mA
- Camera: 1/3" CCD
- Definition: 380 TV Line

### III、Code setting

1. Press\*\*00,XXXX and enter into the coding state.(the original password of the manager is 2098)

2. Press \*\*02 to change the coding state into “0”.

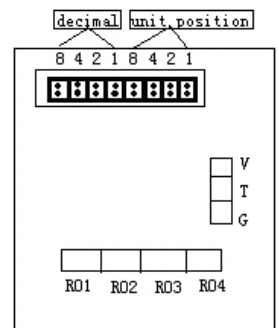
3. Using order code \*\*16 to set the number of dialing,it depends on the floors (If it is over 9 floor,please use mixed dialing. Set code “7”,you can dial three and four number mixly). Please press "#" to exit programming.

The quick establishing of the extension phone number:  
(Recommendation )

☆ The door station provides a quick order "\*\*\*41" if the room number encoding method conforms to the rule of table 1, Just do as follows:press \*\*00, XXXX (manager password), \*\*41, then it will come to the programming rule as table one does.

☆ The door station provides a quick order "\*\*\*42" if the room number encoding method conforms to the rule of table 2,

- ☆ The door station provides a quick order "\*\*\*43" if the room number encoding method conforms to the rules of table 3. Use order "\*\*\*40" to eliminate the comparative table of the module address and the room number".
- ☆ The manipulating setting of the extension phone number: press \*\*15 and come up with Y011 after completes steps 1, 2, 3 (Y stands for the address, the 2<sup>nd</sup> and 3<sup>rd</sup> figure stand for the coding site, and the 4<sup>th</sup> figure is the room number). Entering three numerals if you want to revise the address, and press "\*" if you don't want to. It'll show four numerals after finishing the above steps. Please enter four numerals to revise (namely room number), press "\*" if do not revise (namely examination), and then it will demonstrate the next encoding address. If the four figures have been in table (namely repetition), and it'll show the repetitious number address. Then please enter 0000, that mean you don't use this address.
- ☆ The module (see the picture in the right corner), the address of module ranges from 0101 to 9904. Namely the coding sites are 01 to 99 (namely floors are 01 to 99), room number are 01 to 04. The first 8,421 is decimal and the latter 8,421 is the single. There are eight pairs of two sides contact pin.



Coding site 01 (the first floor): the block of short-circuits should be inserted in the single 1 contact pin

Coding site 03 (the third floor): the block of short-circuits should be inserted in the single 1 and 2 contact pin.

Coding site 06 (the sixth floor): the block of short-circuits should be inserted in the single 2 and 4 contact pin.

Coding site 19 (the nineteenth floor): the block of short-circuits should be inserted in the single 1 and 8 and decimal 1 contact pin.

The room number 01-04 should be inserted in R01, R02, R03, R04 accordingly.

(for example) If the room number you want is 1301, insert the block of short-circuits to the single 1 and 2 and decimal 1, and the room number cut over to R01 then. The comparative table of room number and module address, see details in 6, and 7 pages,

## **IV、 Use method and problem dealing**

**1.** The visitor can input the room number directly when he /she comes. Press “#” to eliminate and re-input when you input wrong number, then the extension telephone will have the ring sound. meanwhile, the indoor phone

displays the image automatically. Pressed the unlock button which control the electronic lock of the front gate after confirming the visitor. And the image will shut-off automatically after hanging off the phone. If the coding is 3 and 4 dialing mixly, for example: you can dial 101 or 0101 either.

**2.** The gate will be shut off by the closing machine automatically after the visitor entering into the door.

**3.** The system may maintain the work by the reserving power source when the power is off,

**4.** The resident can press "monitor" if he wants to monitor the situation downstairs, and the picture of downstairs will show on the screen of the indoor phone in the room, it will be shut-off automatically about 15 seconds later.

**5.** There are three potentiometers in the door station, which are "the mainframe", "the extension phone" and "the balance". "The mainframe" uses to adjust the volume of the door station; "The extension phone" uses to adjust the volume of indoor phones, which limits in some range, and don't attempt to adjust the volume of indoor phone and break potentiometer; "The balance" use to eliminate the sidetone.

**6.** The connection of the wires must be correct exactly, otherwise it will affect the normal work of the whole system. The wrong connection of the main wire may cause modules in all floors can't code and ring. When you come across this kind of problems, please separate the majority of modules and debug one by one until finding out the failure.

**7.** When the door station call indoor phones, and it sends two "di , di " sound , that mean it can't detect the indoor phone, If it sends three "di, di, di " sound, that mean the wire of the indoor phone is short-circuits. When the door station call all indoor phones, they are unnormal or no sound, then it maybe the failure of main wire.

**8.** If the indoor phones don't work when it is picked up or hanged off; the volume is too low or the indoor phones in higher floors can't unlock the gate etc. please check up that the section area of main line or branch line is too slim or not.

**Table 1, comparative table of initialization room number and extension phone address (the 1st kind)**

(module address) (coding site)	(room number)	(module address) (coding site)	(room number)	(module address) (coding site)	(room number)	(module address) (coding site)	(room number)
01.01	0101	05.01	0501	09.01	0901	13.01	1301
01.02	0102	05.02	0502	09.02	0902	13.02	1302
01.03	0103	05.03	0503	09.03	0903	13.03	1303
01.04	0104	05.04	0504	09.04	0904	13.04	1304
02.01	0201	06.01	0601	10.01	1001	14.01	1401
02.02	0202	06.02	0602	10.02	1002	14.02	1402
02.03	0203	06.03	0603	10.03	1003	14.03	1403
02.04	0204	06.04	0604	10.04	1004	14.04	1404
03.01	0301	07.01	0701	11.01	1101	15.01	1501
03.02	0302	07.02	0702	11.02	1102	15.02	1502
03.03	0303	07.03	0703	11.03	1103	15.03	1503
03.04	0304	07.04	0704	11.04	1104	15.04	1504
04.01	0401	08.01	0801	12.01	1201	...	...
04.02	0402	08.02	0802	12.02	1202	99.02	9902
04.03	0403	08.03	0803	12.03	1203	99.03	9903
04.04	0404	08.04	0804	12.04	1204	99.04	9904

**Table 2 ,comparative table of initialization room number and extension phone address (the 2nd kind)**

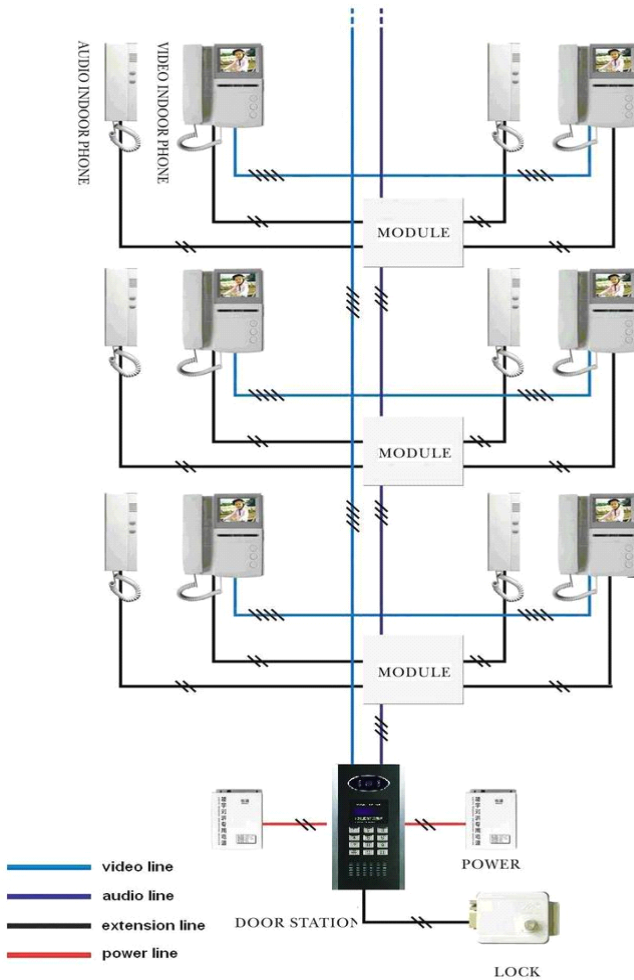
(module address) (coding site)	(room number)	(module address) (coding site)	(room number)	(module address) (coding site)	(room number)	(module address) (coding site)	(room number)
01.01	0101	05.01	0901	09.01	1701	13.01	2501
01.02	0102	05.02	0902	09.02	1702	13.02	2502
01.03	0201	05.03	1001	09.03	1801	13.03	2601
01.04	0202	05.04	1002	09.04	1802	13.04	2602
02.01	0301	06.01	1101	10.01	1901	14.01	2701
02.02	0302	06.02	1102	10.02	1902	14.02	2702
02.03	0401	06.03	1201	10.03	2001	14.03	2801
02.04	0402	06.04	1202	10.04	2002	14.04	2802
03.01	0501	07.01	1301	11.01	2101	15.01	2901
03.02	0502	07.02	1302	11.02	2102	15.02	2902
03.03	0601	07.03	1401	11.03	2201	15.03	3001
03.04	0602	07.04	1402	11.04	2202	15.04	3002
04.01	0701	08.01	1501	12.01	2301	...	...
04.02	0702	08.02	1502	12.02	2302	49.04	9802
04.03	0801	08.03	1601	12.03	2401	50.01	9901
04.04	0802	08.04	1602	12.04	2402	50.02	9902

**Table 3 comparative table of initialization room number and extension telephone address (the 2nd kind)**

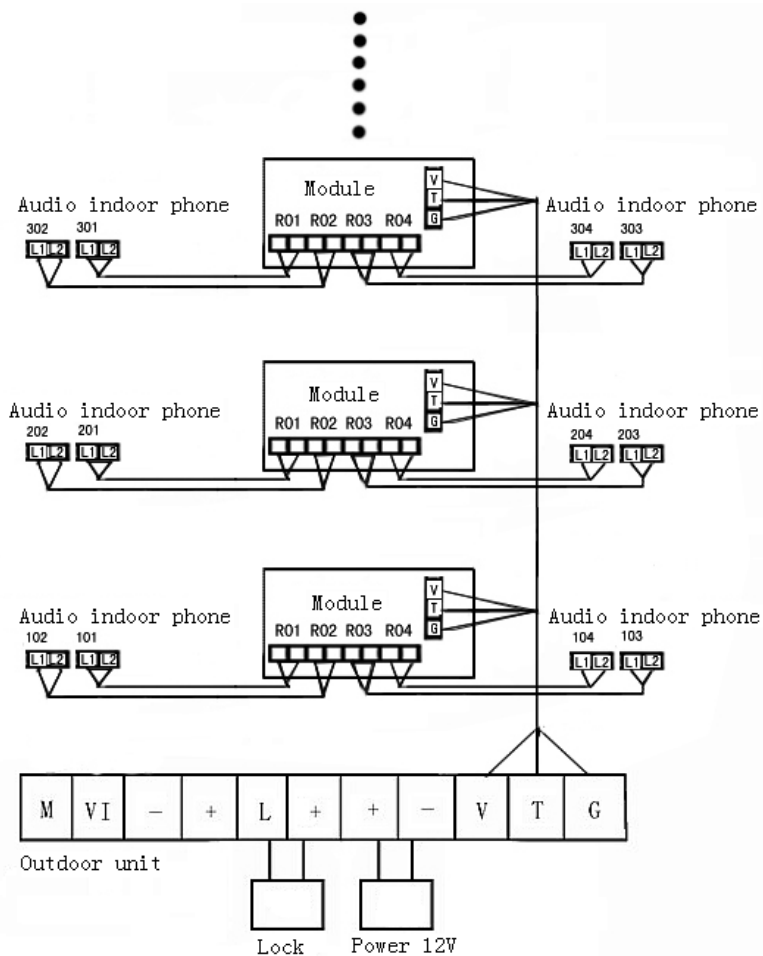
(module address) (coding site)	(room number)	(module address) (coding site)	(room number)	(module address) (coding site)	(room number)	(module address) (coding site)	(room number)
01.01	0101	05.01	0301	09.01	0501	13.01	0701
01.02	0102	05.02	0302	09.02	0502	13.02	0702
01.03	0103	05.03	0303	09.03	0503	13.03	0703
01.04	0104	05.04	0304	09.04	0504	13.04	0704
02.01	0105	06.01	0305	10.01	0505	14.01	0705
02.02	0106	06.02	0306	10.02	0506	14.02	0706
02.03	0107	06.03	0307	10.03	0507	14.03	0707
02.04	0108	06.04	0308	10.04	0508	14.04	0708
03.01	0201	07.01	0401	11.01	0601	...	...
03.02	0202	07.02	0402	11.02	0602	126.02	6306
03.03	0203	07.03	0403	11.03	0603	126.03	6307
03.04	0204	07.04	0404	11.04	0604	126.04	6308
04.01	0205	08.01	0405	12.01	0605	127.01	6401
04.02	0206	08.02	0406	12.02	0606	127.02	6402
04.03	0207	08.03	0407	12.03	0607	127.03	6403
04.04	0208	08.04	0408	12.04	0608	127.04	6404

## V、System schematic and wiring diagram

### 1、System structure schematic drawing



## 2、System wiring diagram



## VI、 Door station setting order

CODE ORDER	DIGIT CODE	Significance	remark
*000	XXXX	The manager operates the lock	
**00	XXXX (4 passwords)	Confirmating the manager password	It should be confirm the manager password first before using the order from **00 to **19 (Tacitly approves No, is 2098)
**01	XXXX (4 new passwords)	Revising the manager password	
**02	000X	Revising the 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 the ringing time	001-255seconds(Tacitly approves No, is 60)
**04	0XXX	Revising the Dialogue time	001-255seconds(Tacitly approves No, is 120)
**05	000X	Revising the ring types	0-9(0 is the "dingdong" sound, and 1-9 is the phone sound) (Tacitly approves No, is 0)
**06	0XXX	Revising the waiting time after ringing	001-255seconds(the user also can answer the phone after the ring stopped) (Tacitly approves No, is 1)
**07	0XXX	Revising the time of operating lock	001-255seconds(unit is 0.2 second, tacitly approves No, is 5,namely the time of unlocking is 1 second)
**08	0XXX	Revising the waiting time after opening the door	001-255seconds(the 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-off,1-9 are demostrating)
**10	000X	Controlling thecode tube to demonstrate or to slake when picking up phone	0-1(Tacitly approves No, is 1) 0 is to slake 1 is to demonstrate
**11	0XXX	revising the alarm time	000-255seconds,000-close the alarm function. (Tacitly approves No, is 000)
**12	0XXX(Serial number) XXXXX(password)	Manager revising the unlock password of users	The scope of Serial number:000-239 password cancelling:0000
**13	XXXX XXXX	establishing eight public password to open locks	password cancelling:0000
**15	YXXX(module address)	edits comparative table of " onnipotent coding "	Reference the comparative table of " onnipotent coding "
**16	000X	choosing the " dialing digit"	Only suit for the onnipotent coding the effective number is 1.2.3.4,(Tacitly approves No, is 3)
**17	000X	Which digit to demonstrate a letter	The effective digit is 1-4,or the tacitly approves demonstrate no letter
**18	XXXX(room No.)	Checking the room number of onnipotent coding	Checking the module address of the room number in table "onnipotent coding"
**19		Restoring factory setting	Restoring the digits **02-**11,**16-**17 are the factory tacitly approves No,

## VII、 User's operational order

Order name	Order code	Following code	Remark
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 password operates the lock	*XXX (Serial number)	XXXX(password)	Serial number's Range of validity 001-239
Public password operates the lock	*250	XXXX XXXX (eight password)	

## VIII、 Wrong code form

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

## IX、Attentions

The video and audio indoor extension phone can be used both in networking and non-networking system. It's good for non-networking upgrading to networking system.

If the door station promotes to the networking system, then just replace the control chip of the non- networking door station

The non- networking system promoting to the networking system needn't to change the wiring of the original unit, and the networking (networking system is called floor controller) and the non- networking system have the same wiring from the door station to the module and indoor phones.

★The wiring request of non- visible partial:

1. The section area should be bigger than  $0.3\text{mm}^2$  ,if the length of master line is less than 50M

2. The section area should be bigger than  $0.5\text{mm}^2$  ,if the length of master line is between 50M and 100M

3. The section area should be bigger than  $0.15\text{mm}^2$  ,if the length of branch line is less than 20M

4. The section area should be bigger than  $0.3\text{mm}^2$  ,if the length of branch line is between 20M and 50M

**5.** The wire that from the power source to the door station and door station to locks, the section area of which should be bigger than  $0.5\text{mm}^2$ , and the length have to be less than 15M, otherwise should enlarge the area of wire

★the possible problems if the wiring does not conform to the request :

**1.** If the section area of main line or branch line is too slim, it may cause the indoor phones don't work when it is picked up or hanged off,can't unlock the gate,or the low volume of indoor phones and things like that.I

**2.** The section area of the wire that from power to door station and door station to electronic lock is too slim.then it may cause the indoor phone can't unlock the door.

★the wiring request of visible partial

Visible partially has two electric wires, one is for the surveillance requests (M), the other is for the video coaxial cable (vi). The video coaxial cable system uses SYV75-3, and should pay attention that the outer layer shield cann't use as the wire to supply power, otherwise it possibly causes the power source and undulation interfering picture

The section area should be bigger than  $0.5\text{mm}^2$  when the length of electric wire is less than 30M,

The section area should be bigger than  $0.75\text{mm}^2$  when the length of electric wire is less than 50M

The section area should be bigger than  $1.0\text{mm}^2$  when the length of electric wire is less than 80M,

The section area should be bigger than  $1.5\text{mm}^2$  when the length of electric wire is more than 80M,

General speaking, every 4 to 8 floors should add a power source for video, at this time, you can let up the section area of wire suitably.

There is no special request that the line of surveillance requested to the section area of wire.

★ The unlocks circuit of this machine mates to the ordinary electric controlled lock, if it mate to the electric lock driving by weak signal like magnetic force lock, then it may causes to unlock by mistake. Now you should connect a relay first, then use the connect of relay to drive the weak signal lock.