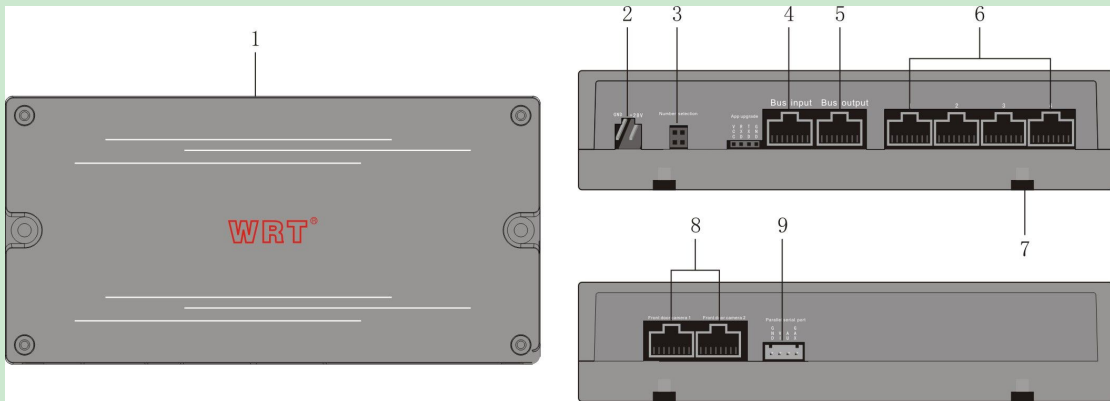# WCPC-212 Expanded Control Unit Manual

1.Brief Introduction：

1．Suit for the Elite series security system.

2．Use for door phones and connecting with R2 system front door camera,form a mini video intercom system or connecting with decoder to form a large whole network intercom system.

3. Each expanded control unit can be connected 4 door phones and 2 front door cameras.Max 2 expanded control units connect,and extend to 8 door phones and 4 front door cameras.

4. Each port short circuit or open circuit,misplug,devices will not be damaged.Any sub phone damaged,other door phones will not be influenced.

5.Gate station to decoder,expanded control unit,door phones and front door station are connected with RJ45 connectors.

2.Parts Description：

1 ………………...Cover

2 ………………. +28V DC voltage input

3 …………………Parallel number selection socket

4 …………………Network interface（To decoder）

5 …………………Network interface（To parallel repeater）

6 ………………...Network interface（To 4 door phones）

7 ………………...Guide rail locking block

8 …………………Network interface（To 2 front door station）

9 …………………Audio,video transmission（To expanded control unit）

3.Cautions for operation：

1.Avoid direct sunlight or under extreme high or low temperature.Avoid chemistry

corrosion and heavy dust.

2.Install expanded control unit to the place where is convenient for installation and debug. 200cm is recommended（between the floor and the product）.

3.Cut off the power when installing.

4.After connecting all the wires and confirmed there is no problem,then power on.

5.When there is any problem after powering on ,please cut off the power and check.

6.When problem appears,please check the devices and the wiring carefully and if you don't know how to solve the problems,please contact the after sales service department of the suppliers.Do not fix and exchange the parts without instruction.

4.Installation：

Two installation methods : 35mmDIN guiderail installation or use 2 screws to fix on the decoder

1．If using guiderail installation, purchase the matched household power distribution box, then install the guiderail into household power distribution box , and finally install the decoder on the guiderail.
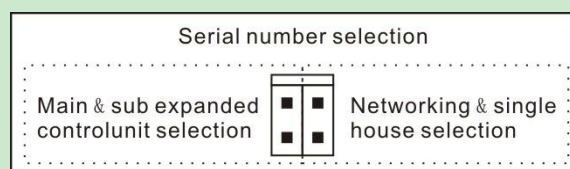
2．If using screws installation，press the decoder to register the spacing of screw holes, dig 2 screw holes horizontally on the wall at the height of 167.0mm above the ground, put flexible plug inside the screw holes . Make the decoder be aligned with the screw holes, and tighten the screws.

5.Instruction:

1. Normal power supply of expanded control unit is DC28V,and it can work at the range of DC18V ~DC28V.

2. Each expanded control unit can be connected 4 door phones and 2 front door stations.Max 2 expanded control units connect,and extend to 8 door phones and 4 front door stations

3. There is a serial number selection pin socket on the expanded control unit ,the functions of pins as follows:

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┌─────────────────────────────────────────────┐
│           Serial number selection            │
│ ············································  │
│ Main & sub expanded   ■ ■   Networking & single │
│ controlunit selection ■ ■   house selection   │
│ ············································  │
└─────────────────────────────────────────────┘
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Main & sub expanded control unit selection: When two expanded control units are connecting,set different address via the jumpers.When not plug the jumper,it means main expanded control unit, port 1-4 which are connecting with door phone correspond to door phone 1-4 ,port 1-2 which are connecting with front door station correspond to front door

station 1-2.When plug the jumper,it means sub expanded control unit, port 1-4 which are connecting with door phone correspond to door phone 5-8,port 1-2 which are connecting with front door station correspond to front door station 3-4.

Networking & single house selection: When it is a single house intercom system which is formed by expanded control unit,door phone,front door station and power supply,no need to plug the jumpers. When it is a large networking system which is formed by center,Gate Station,decoder,expanded control unit,door phone,front door station and power supply,please plug the jumpers.

4.When several door phones connected with expanded control unit,it can be used after numbered door phones.

When standby and unarmed,press "2" button and then press unlock button,then release two buttons.After "Di Di" can be heard,press number keys to set number of the door phone,indicator light of number will be on.

There must be a door phone 1 when numbering door phones.

When numbering door phones 2-8,can connect with port 2-8 of expanded control unit.But door phone 1 can be only one,and door phone 1 only be connected with port 1 of main expanded control unit.

5. When in a family,other devices call door phone,all door phones will ring and see image of visitors,if pick up one door phone to talk and unlock,other door phones will stop ringing and close the screen.

6. When in a family,one door phone arm or disarm,other door phones will arm or disarm at the same time.

7. Front door station with 4 kinds of ring tones for option(set via door phone 1).When standby and unarmed,press "3" button and then press unlock button,then release two buttons.After "Di Di" can be heard,press "4" in 15s,then input ring tone encoding,after finished,if "Di Di" can be heard,it means successfully,if not,start again.

chording	Center	Song 1	Song 2	Song 3
encoding	11	12	13	14
chording	Song 4	Entrance station	Song 5	Song 6
encoding	21	22	23	24
chording	Song 7	Song 8	Gate station	Ring 1
encoding	31	32	33	34
chording	Ring 2	Ring 3	Ring 4	Front door station
encoding	41	42	43	44

8.Set the ring tones of Gate Station,Entrance Station and Guard Center via door phone 1.And set No-disturb function via door phone 1.

9.When press monitor button on door phones,can identify whether exit front door

station.Press monitor button one time to monitor Gate Station,the second time to monitor front door station(Door phone 1 is regularly under monitor),the third time to close the screen.If there is no front door station,the second time to close screen.

10. CAT 5 cable is adopted in the system.The cable must comply to the International Standard(T568B),the making of RJ45 must follow the following order :
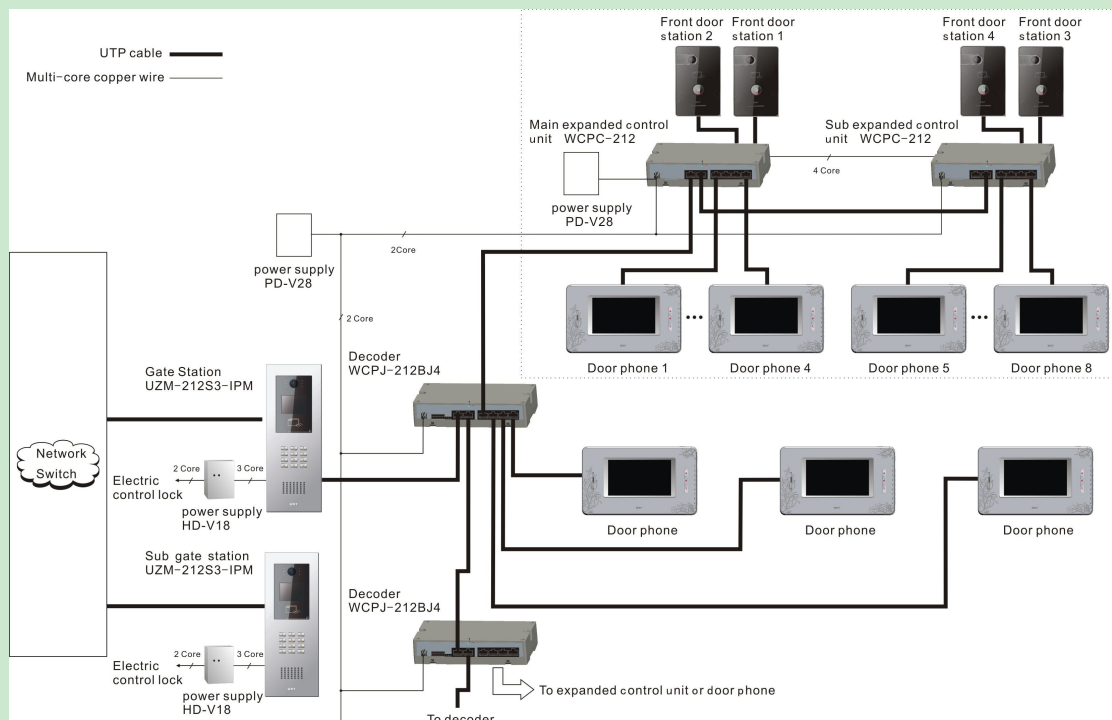
1	2	3	4	5	6	7	8
Orange&White	Orange	Green&White	Blue	Blue&White	green	Brown&White	Brown
W-O	O	W-G	BL	W-BL	G	W-BR	BR

11. Max distance from expanded control unit to the decoder/door phone/front door stations is 50 m.

6.Specifications：

Max capacity--------------------------- 4 families

Input voltage-----------------------------+28VDC

Static current-----------------------≤50mA

Working currency-----------------------≤200mA

Pass-band----------------------32Hz—62MHz

Transmission distance------------------(to door phones)UTP/ about 50m

Dimensions-------------------------------180.0x90.0x40.0mm

7.Connection：

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Note:

If exceed 2 door phones in a family,add one more 28V power supply.

Use expanded control unit,door phone,front door station and power supply to form a single intercom system.