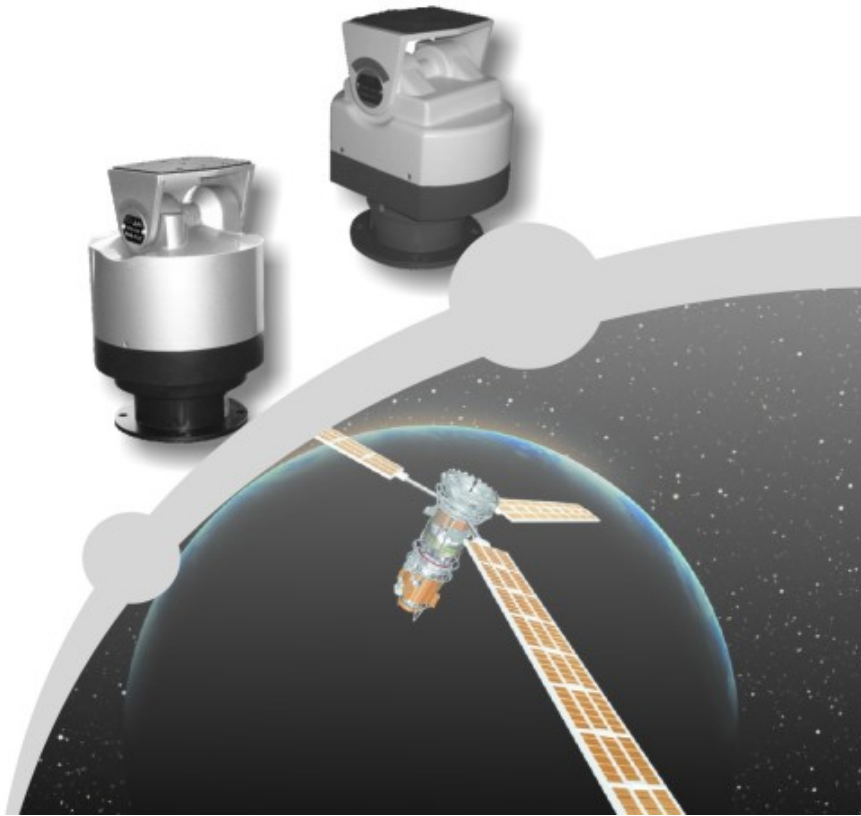




Outdoor Pan/Tilt



Installation & Service Manual



We are obliged to you for applying ball cover and pan products. In order to use this product better,

please read this instruction carefully

1. Brief introduction

301, 303 outdoor full scale pan applies permanent magnetism synchronous motor. Auto horizontal limit adjustment, aluminium alloy material, forming by extrusion casting, high temperature resistance .aging resistance, corrosion resistance, strong wind resistance, water proof and acid rain proof.

301Q, 303Q are indoor and outdoor full scale pans with built-in decoder, in which, the decoder adopts imported PIC series SCM design that has such features as multi protocols, multi baud rate

strong anti interference, low power consumption and anti-outage and provides lens driven power and auxiliary control output for user.

H type built-in auto heating system is applicable to very cold area.

The instruction offers particular installing methods and steps. The installation personnel shall understand the construction of installation site and installation technology requirements very well.

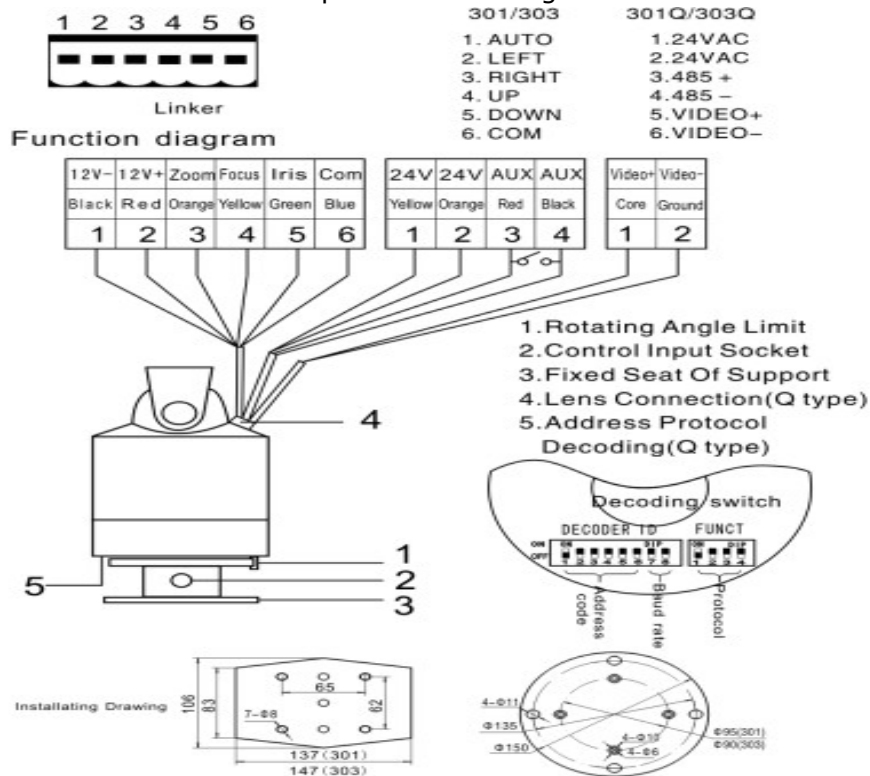
install correctly to get optimal usage purpose and safety

2. Machine electrical specification

item	301/303	301Q/303Q
Input voltage	24VAC/220VAC/110VAC	24VAC
Working voltage of vidicon camera		12VDC 500ma
lens control		±12VDC focus, zoom, aperture
Communication control mode		RS-485 half-duplex bus line
Rotating angle	Max, horizontal:350°, vertical:±35°	
Rotating speed	Horizontal 7°/s, vertical 2° /s	
Rotating limit	External limit pole adjustable	
Matched wire	>0.5%mm ² wire	
Load	Horizontal 25kg, vertical 12kg	
Function input plug	1. auto 2 left 3. right 4. up 5, down 6. common	1.24VAC,2.24VAC,3.485+,4.485-.5. VIDEO+,6 VIDEO-
Working temperature	Ordinarily type:-15C-55°C Hype:-40°C-55°C	
Material	Formed by aluminum alloy extrusion casting	

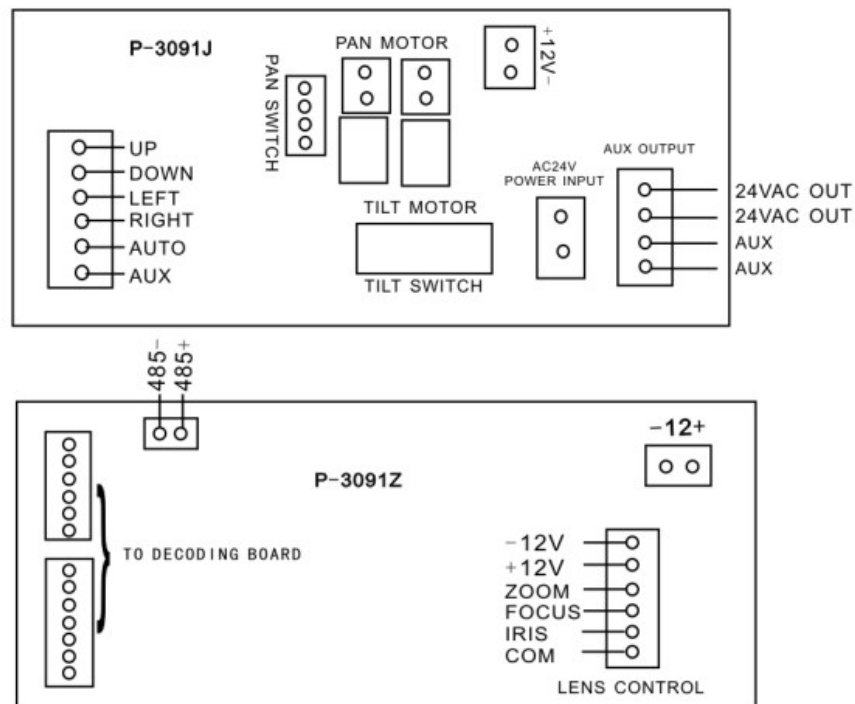
3.Installation and connection of dome pan:

Connect the socket of dome pen Connecting method

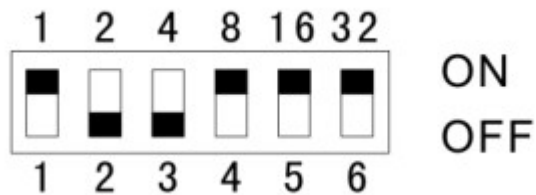


4. Built-in decoder setting

4. 1 wiring and switch position of decoding board



4. 2 Address setting: (dial switch 1-6 is address code setting) Address code is 6 bits BC, the corresponding is the sum of each dial switch ON position, which can be total 64 routes 57 routes are 57=1++8+16+32 and the corresponding bit is ON



4.3 Baud rate setting: (dial switch 7-8 is baud rate setting)

Decoding setup	Baud rate	Decoding setup	Baud rate
ON	1200	ON	4800
OFF		OFF	
ON	2400	ON	9600
OFF		OFF	

4.4 A Communication agreement setting(15 protocol)

No	FUNCT	Communication agreement	Baud rate	Scope of application
1	ON OFF	PELCO-D	9600	Pelco series monitoring system
2	ON OFF	PELCO-P	9600	Pelco series monitoring system
3	ON OFF	SAMSUNG	9600	Samsung series monitoring system

4	ON	OFF	Philips	2400	Philips HD video recorder
5	ON	OFF	RM110	9600	Kejia monitoring equipment
6	ON	OFF	CCR-20G	4800	PICASO monitoring equipment
7	ON	OFF	HY, ZR	9600	Coin HD video recorder
8	ON	OFF	KALATEL	9600	KALATEL monitoring equipment
9	ON	OFF	KRE-301	9600	Kodicom monitoring equipment
10	ON	OFF	VICON	9600	Vicon monitoring equipment
11	ON	OFF	ORS-10	2400	PICASO monitoring equipment
12	ON	OFF	PANASONIC	9600	Panasonic monitoring system
13	ON	OFF	PIH717	9600	LILIN monitoring equipment
14	ON	OFF	Eastern	1200	Eastern HD video recorder
15	ON	OFF	Auto-selection	9600	Auto-matching control protocol

4.5 Equipment setting

- Self-inspection function setting carries out self-inspection control to pan and lens through decoding

Dial switch setting	Function	Dial switch setting	Function
ON OFF	UP	ON OFF	IRIS+
ON OFF	DOWN	ON OFF	IRIS-
ON OFF	LEFT	ON OFF	FOCUS+
ON OFF	RIGHT	ON OFF	FOCUS-
ON OFF	AUTO	ON OFF	ZOOM+
ON OFF	AUX1	ON OFF	ZOOM-

5. Wiring mode and terminal resistance

Adopt daisy chain type connection for each equipment according to Rs485 industrial bus standard. Both ends should connect with 120 terminal resistance, (see fig. 1): simple connection may adopt fig. 2, but the distance of "D" section shall not over 7m and the terminal resistance must connect to the equipment with longest distance (see fig. 2)

6. Notice and maintenance:

6.1 Pay attention to use indicated supply voltage in the instruction. Do not insert high voltage power, otherwise, it will burn out the equipment

6.2 The horizontal rotation of dome pan core shall not exceed 356, otherwise the inner wiring may wrap resulting in failures

6.3 Dome pan can not be under auto working state for long time

7. Common defaults:

A. Power indicator off

Cause: working power is off or incorrect

B. Decoder cannot be controlled

Cause: Polarity of communication control line of decoder is inverse

Control protocol of decoder is incorrect

Communication baud rate of decoder is incorrect:

Address code of decoder is incorrect (if the switch setting of address code is in conformity with vidicon camera address controlled by host computer: some addresses of No. 1 vidicon camera of host computer is 0, No.0 vidicon camera of hot computer is 1)

The communication line is too long or its signal is too low, and connect resistance in no accordance with specification

C. Pan and lens do not work

Cause: Wiring of pan and lens is incorrect

Working voltage of pan and lens is unmatched

D. Vidicon camera has no image after switching on for a few minutes

Cause: the power of vidicon camera is too large so that decoder cannot supply normal working current for vidicon camera

E. Decoder cannot be controlled after switching on for a few minutes

Cause: Actual working voltage of decoder is too low

Load of decoder is too la

F. It is hard to control after operating dial switch so restart power

Service Card of Pan

User		Address		Tel	
Marketing Unit				Date	
Product Model			Machine No.		
Notice	Please do not scrap the number on machine, otherwise well not service or replace. If you have any quality problem. contact distributor to replace or repair based on this service card and				

the machine. Thanks for your cooperation!

Attention!

- Please do not remove each external parts of dome pan. No parts in dome pan need to be repaired by user, please contact manufacturer if necessary
- The dome pan cannot work under environment over temperature, humidity standard and with corrosive gas
- Read the instruction carefully, connect according to wiring drawing and Do not use dome pan under the condition over power standard

Distributor:.