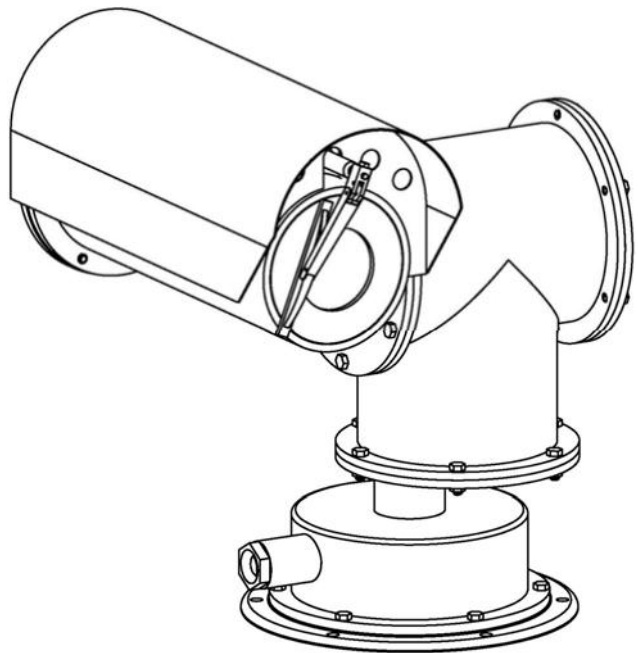


EX mark: Exd II CT6 / DIP A20 TA, T6
Certificate No.: CNEx10.1195
License: XK06-014-00898



Veilux SVEX-W125-3 Explosion Proof PTZ Camera



SAFETY NOTES

Please carefully read the Manual Book before your operation

1. Installation

- „ Please install under required environment
- „ Ensure stable and reliable mounting in case camera be damaged
- „ Ensure supply power same as nameplate marked before equipment being powered
- „ Do not open the pan/tilt and enclosure under humid atmosphere, otherwise video picture will be influenced because of enclosure good sealing, humidity could not go outside.
- „ Please connect cable correctly

2. Maintenance

- „ Please shut off before maintenance and repair
- „ Pay attention to the flameproof path while disassembly and assembly

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1. BRIEF

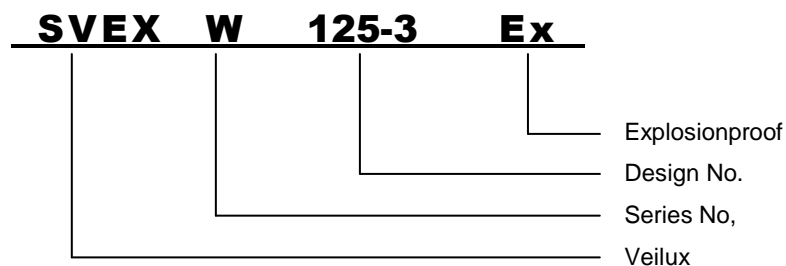
This **EXPLOSIONPROOF PAN TILT ZOOM CAMERA** (therefore as SVEX-W125-3 Camera) as a new monitoring equipment adopts advanced production techniques and matured quality management system to make its quality, performance and appearance a leading position in explosion proof monitoring products. It can be used in flammable and explosive environment to realize monitoring purpose.

Strictly according to Standards of GB3836.1-2000 Electrical apparatus for explosive atmosphere: General requirements, GB3836.2-2000 Electrical apparatus for explosive atmosphere: Flameproof 'd' and GB12476.1-2000 Electrical apparatus for explosive dust: Using enclosure and limiting surface temperature for protecting electrical apparatus Chapter 1: Technical requirements, this camera owns advantage of small volume, light weight and easy installation features and could be used in petroleum, chemical industry, jetty, port, mine, space, army and foodstuff area.

YHW125-3 with speedy pan/tilt and decoder controlling system, multi-protocol and communication rates, can response any host machine directives. The Camera body adopts integrated structure design, no cable between camera housing and pan/tilt, goes 360° turning horizontally and ±90° pitching. Camera with sunshield, wiper and auto heating system can adapt itself for hazardous area applications

2. TECHINICAL

2.1 Type Code



2.2 Certificate

Ex Mark	Exd II CT6 / DIP A20TA, T6
Ex Certificate	CNEx10.1195

License	XK06-014-00898
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2.3 Electric Data

Input voltage	100~240VAC
Working current	< 1A
Power consumption	85 W
Electric connection	6-core cable for video, power and control signal
Communication	RS-485
Communication speed	multiple, could be set, factory set as 4800bps
Communication protocol	multiple, could be set, factory set as Pelco D
Prepositioning	128
Preposition error	≤0.1°
Auto-heating	work while temperature under -10℃

2.4 Camera Data

Brand	HITACHI
Type	VK-S858EN
Mode	PAL
Scan	Line scan
CCD	1/4" CCD
Line Scan	15.625KHz
Site scan	50Hz
Pixel	470,000/795(H) x 596(V)
Lens	High performance /23X optic zoom / auto focus / F1.6, f=3.6~82.8mm
Min focus	0.01m (wide) / 1.0m (tele)
View angle	54° (wide) / 2.5° (tele)
Low Lux	0.1Lux (color) / 0.01Lux (black)
TVL	540 (color) / 600 (black/white)
SNR	> 50dB
Video output	BNC joint / 1.0±0.2Vp-p / 75Ω

2.5 Mechanical

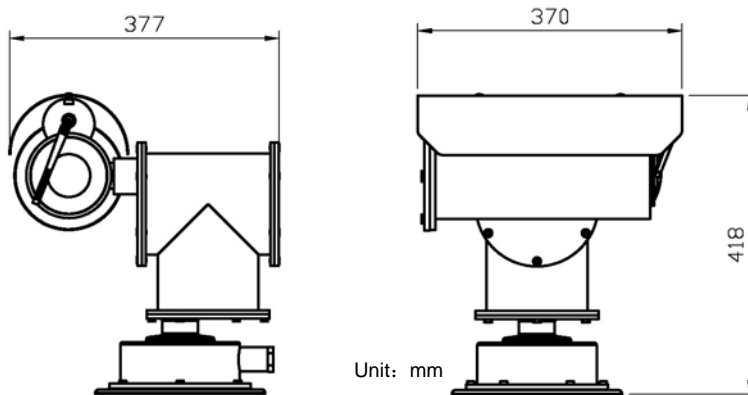
Material	Stainless 304 or 316L
IP level	IP68
Pan	360° continuous
Tilt	±90°±2°

Pan speed	0.1°/S~25°/S
Tilt speed	0.1°/S~25°/S
Unit weight	27Kg
Ship weight	30Kg
Mounting	fixed bracket, base and pole

2.6 Environmental

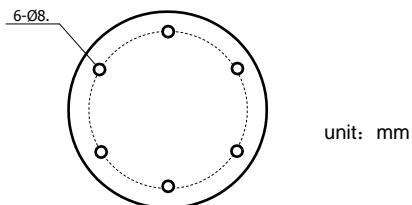
Air pressure	86~106KPa
Environment temperature	-40℃~+60℃
Relative humidity	U95%RH (+25℃)

2.7 Dimension



P1. SVEX-W125-3 out dimension

2.8 Mounting Size



P2. camera bottom fix hole on diameter 216mm round

3. INSTALLATION

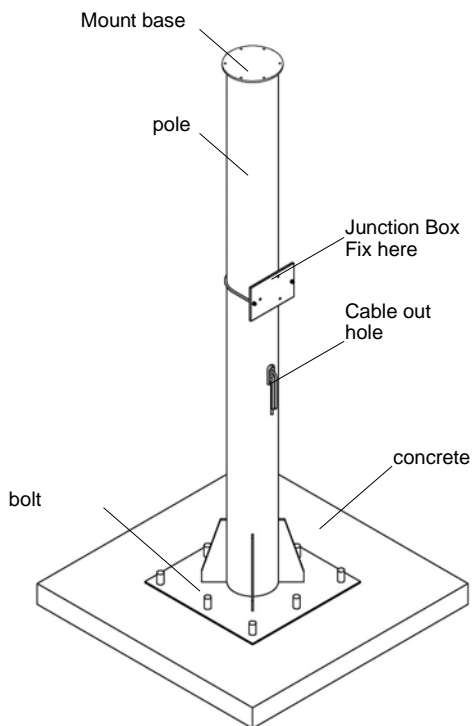
3.1 Caution

Please carefully check before installation

- If there is ex-marking license
- The ex-marking satisfy environment use
- All ex-proof and flameproof parts are complete enough for structure
- Inside and outside earth are ready

Stop immediately while there is any unconformity

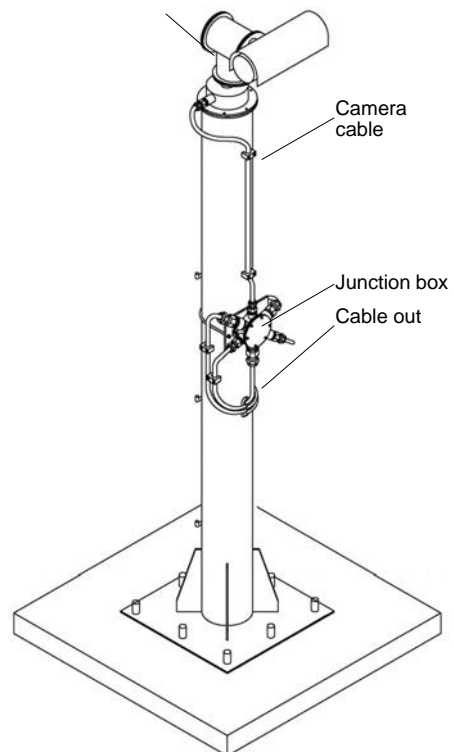
3.2 Pole Mounting



P3. make the concrete and install a pole

Make concrete base before install pole and previously lay screws and some holes for cable out under the base. Attention: Pole's type shall changes according to monitoring scope, wind speed and height. So please consult the supplier while design the pole

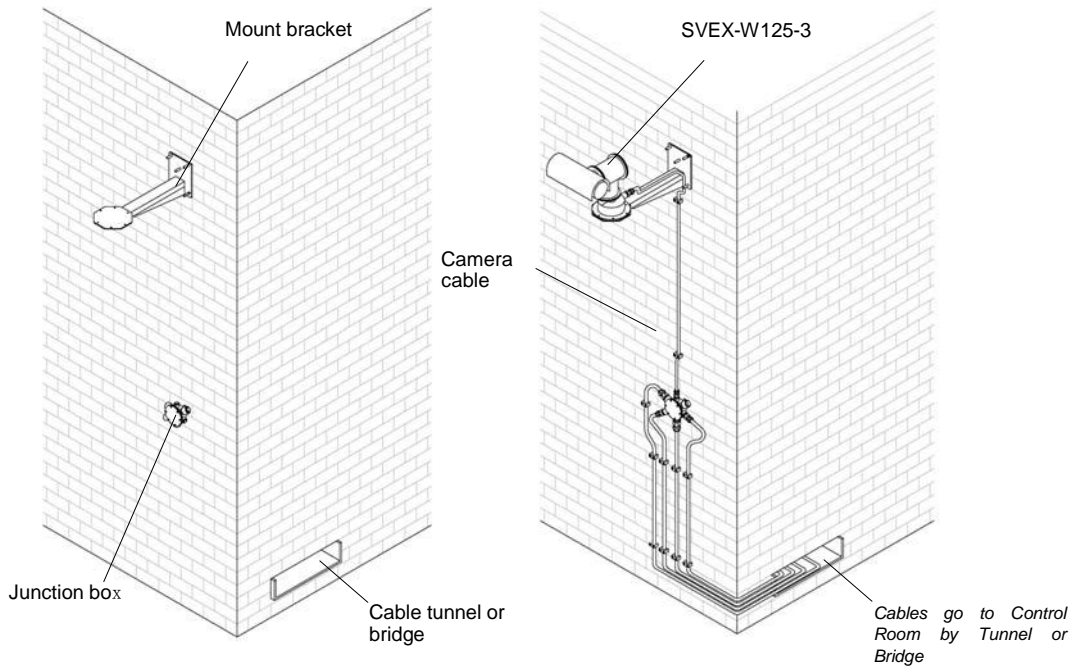
SVEX-W125-3



P4. mount camera and connect cable

As shown in Picture 2 and 4 make the camera bottom cable through Cable Laid-in hole. The Junction Box normally locates at a easy installation and maintenance level with screw fixed, and must be with ex-proof tube for protection or with armored cable

3.3 Bracket Mounting



P5. Mount Bracket and Junction Box

Make a mount hole at proper level and fix the bracket with screw. Junction Box shall be at easy work level and cable goes through tunnel or bridge to nearby Junction Box.

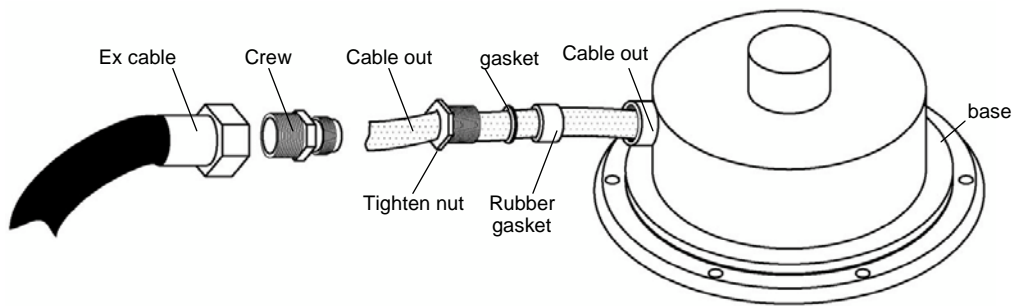
P6. Mount Camera and Connect Cables

Refer to Picture 2 to mount camera bottom, and make the camera cable go through cable hole on the bracket until reaching Junction Box. With Ex-proof Flexibility Tube for protection or armored cable

3.4 Cable Working

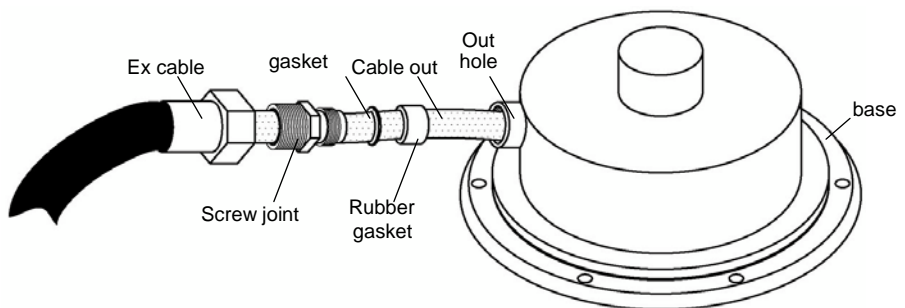
3.4.1 Ex Cable Use

- a. As P 7, open the tighten screw on the base of camera, open ex cable screw joint for future use



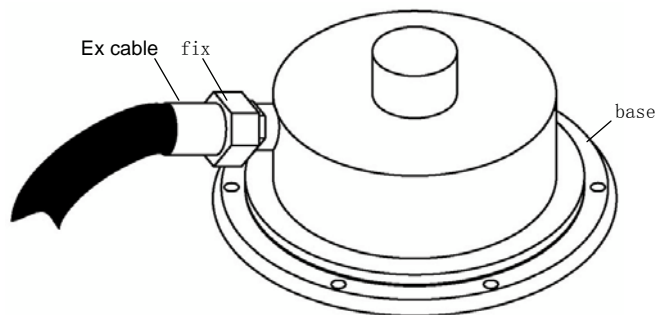
P7.

b. as P8, remove tighten nut, keep standard gasket and rubber gasket, put on screw joint and ex cable



P8.

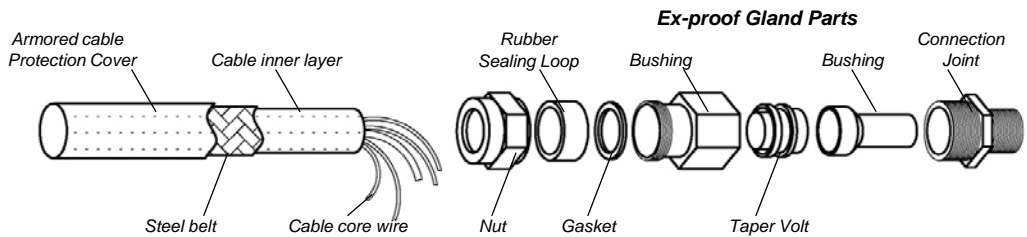
c. as P9 firstly tight screw joint and then tight ex cable



P9.

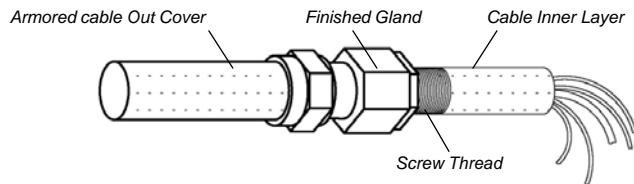
3.4.2 Armored Cable Use

a. As Picture 10, remove proper length cable protection cover and cut off not used part.



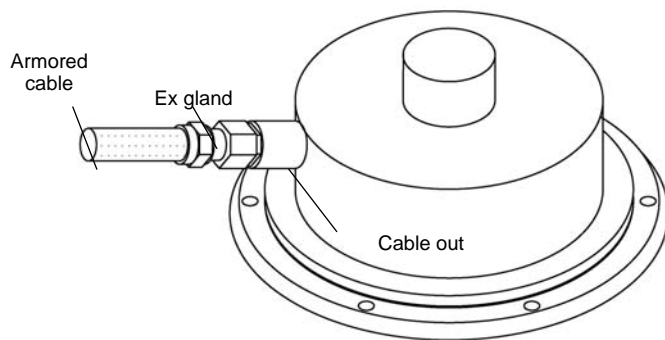
P10.

b. As Picture 11, install Ex-proof Gland to Armored Cable, as the method please refer to Document for Installation of Ex-proof Gland.



P11.

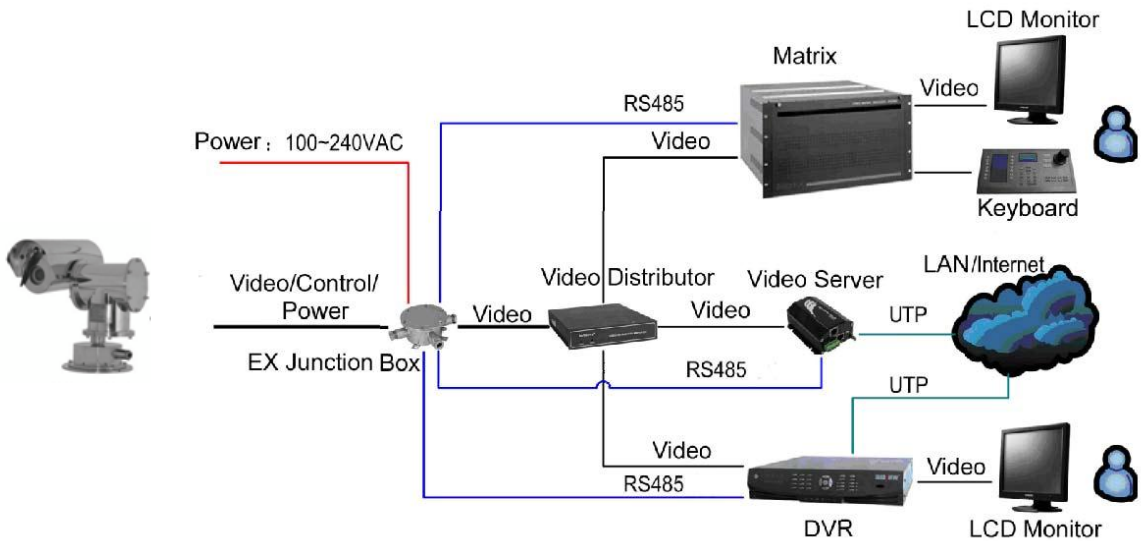
c. as P12, Armored cable with ex-proof Gland could connect with any ex-proof equipment directly



P12.

4. APPLICATION

4.1 System Connection



P12. System Connection

4.2 Cable Definition

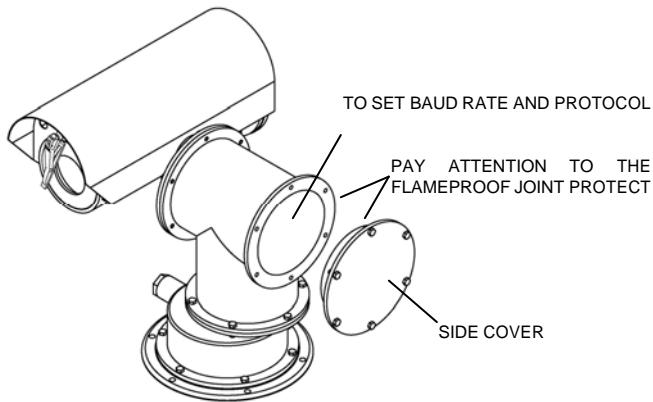
While camera leaves factory, we supply a Composite Cable** with camera, the cable goes out from Camera bottom with length at least 2 meters. So while connection the system, just connect the cable with Junction Box.

(***Composite Cable**: A special cable, one Composite Cable includes one group power, one group control and one group video, it is generally used in Industry CCTV system.)

Table 1: Cable Definition

Name	Composite Cable					
	Power			Control shielded		Video
Function	Live wire	Neutral wire	Ground wire	A	B	Standard Video Cable
Color	Brown	Grey	Black	Red	Blue	

4.3 Address Set



P13. COMMUNICATION SET

Camera address adopts binary system, ON to 1, OFF to 0. Normally address has been set down before camera leaving factory, but if there is need to adjust the address, please refer to Picture 13, open the Camera Top Cover as Table 2 to adjust the SW1 code for set again.



P14. Decode Switch SW1

T2. Address Set

ADDR	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8	ADDR	DIP1	DIP2	DIP3	DIP4	DIP5	DIP6	DIP7	DIP8
0	0	0	0	0	0	0	0	0	128	0	0	0	0	0	0	0	1
1	1	0	0	0	0	0	0	0	129	1	0	0	0	0	0	0	1
2	0	1	0	0	0	0	0	0	130	0	1	0	0	0	0	0	1
3	1	1	0	0	0	0	0	0	131	1	1	0	0	0	0	0	1
4	0	0	1	0	0	0	0	0	132	0	0	1	0	0	0	0	1
5	1	0	1	0	0	0	0	0	133	1	0	1	0	0	0	0	1
6	0	1	1	0	0	0	0	0	134	0	1	1	0	0	0	0	1
7	1	1	1	0	0	0	0	0	135	1	1	1	0	0	0	0	1
8	0	0	0	1	0	0	0	0	136	0	0	0	1	0	0	0	1
9	1	0	0	1	0	0	0	0	137	1	0	0	1	0	0	0	1
10	0	1	0	1	0	0	0	0	138	0	1	0	1	0	0	0	1
11	1	1	0	1	0	0	0	0	139	1	1	0	1	0	0	0	1
12	0	0	1	1	0	0	0	0	140	0	0	1	1	0	0	0	1
13	1	0	1	1	0	0	0	0	141	1	0	1	1	0	0	0	1
14	0	1	1	1	0	0	0	0	142	0	1	1	1	0	0	0	1
15	1	1	1	1	0	0	0	0	143	1	1	1	1	0	0	0	1
16	0	0	0	0	1	0	0	0	144	0	0	0	0	1	0	0	1
17	1	0	0	0	1	0	0	0	145	1	0	0	0	1	0	0	1
18	0	1	0	0	1	0	0	0	146	0	1	0	0	1	0	0	1
19	1	1	0	0	1	0	0	0	147	1	1	0	0	1	0	0	1
20	0	0	1	0	1	0	0	0	148	0	0	1	0	1	0	0	1
21	1	0	1	0	1	0	0	0	149	1	0	1	0	1	0	0	1
22	0	1	1	0	1	0	0	0	150	0	1	1	0	1	0	0	1
23	1	1	1	0	1	0	0	0	151	1	1	1	0	1	0	0	1
24	0	0	0	1	1	0	0	0	152	0	0	0	1	1	0	0	1
25	1	0	0	1	1	0	0	0	153	1	0	0	1	1	0	0	1
26	0	1	0	1	1	0	0	0	154	0	1	0	1	1	0	0	1
27	1	1	0	1	1	0	0	0	155	1	1	0	1	1	0	0	1
28	0	0	1	1	1	0	0	0	156	0	0	1	1	1	0	0	1
29	1	0	1	1	1	0	0	0	157	1	0	1	1	1	0	0	1
30	0	1	1	1	1	0	0	0	158	0	1	1	1	1	0	0	1
31	1	1	1	1	1	0	0	0	159	1	1	1	1	1	0	0	1
32	0	0	0	0	1	0	0	0	160	0	0	0	0	0	1	0	1
33	1	0	0	0	0	1	0	0	161	1	0	0	0	0	1	0	1
34	0	1	0	0	0	1	0	0	162	0	1	0	0	0	1	0	1
35	1	1	0	0	0	1	0	0	163	1	1	0	0	0	1	0	1
36	0	0	1	0	0	1	0	0	164	0	0	1	0	0	1	0	1
37	1	0	1	0	0	1	0	0	165	1	0	1	0	0	1	0	1
38	0	1	1	0	0	1	0	0	166	0	1	1	0	0	1	0	1

39	1	1	1	0	1	0	0	167	1	1	1	0	0	1	0	1
40	0	0	0	1	0	1	0	168	0	0	0	1	0	1	0	1
41	1	0	0	1	0	1	0	169	1	0	0	1	0	1	0	1
42	0	1	0	1	0	1	0	170	0	1	0	1	0	1	0	1
43	1	1	0	1	0	1	0	171	1	1	0	1	0	1	0	1
44	0	0	1	1	0	1	0	172	0	0	1	1	0	1	0	1
45	1	0	1	1	0	1	0	173	1	0	1	1	0	1	0	1
46	0	1	1	1	0	1	0	174	0	1	1	1	0	1	0	1
47	1	1	1	1	0	1	0	175	1	1	1	1	0	1	0	1
48	0	0	0	0	1	1	0	176	0	0	0	0	1	1	0	1
49	1	0	0	0	1	1	0	177	1	0	0	0	1	1	0	1
50	0	1	0	0	1	1	0	178	0	1	0	0	1	1	0	1
51	1	1	0	0	1	1	0	179	1	1	0	0	1	1	0	1
52	0	0	1	0	1	1	0	180	0	0	1	0	1	1	0	1
53	1	0	1	0	1	1	0	181	1	0	1	0	1	1	0	1
54	0	1	1	0	1	1	0	182	0	1	1	0	1	1	0	1
55	1	1	1	0	1	1	0	183	1	1	1	0	1	1	0	1
56	0	0	0	1	1	1	0	184	0	0	0	1	1	1	0	1
57	1	0	0	1	1	1	0	185	1	0	0	1	1	1	0	1
58	0	1	0	1	1	1	0	186	0	1	0	1	1	1	0	1
59	1	1	0	1	1	1	0	187	1	1	0	1	1	1	0	1
60	0	0	1	1	1	1	0	188	0	0	1	1	1	1	0	1
61	1	0	1	1	1	1	0	189	1	0	1	1	1	1	0	1
62	0	1	1	1	1	1	0	190	0	1	1	1	1	1	0	1
63	1	1	1	1	1	1	0	191	1	1	1	1	1	1	0	1
64	0	0	0	0	0	0	1	192	0	0	0	0	0	0	1	1
65	1	0	0	0	0	0	1	193	1	0	0	0	0	0	1	1
66	0	1	0	0	0	0	1	194	0	1	0	0	0	0	1	1
67	1	1	0	0	0	0	1	195	1	1	0	0	0	0	1	1
68	0	0	1	0	0	0	1	196	0	0	1	0	0	0	1	1
69	1	0	1	0	0	0	1	197	1	0	1	0	0	0	1	1
70	0	1	1	0	0	0	1	198	0	1	1	0	0	0	1	1
71	1	1	1	0	0	0	1	199	1	1	1	0	0	0	1	1
72	0	0	0	1	0	0	1	200	0	0	0	1	0	0	1	1
73	1	0	0	1	0	0	1	201	1	0	0	1	0	0	1	1
74	0	1	0	1	0	0	1	202	0	1	0	1	0	0	1	1
75	1	1	0	1	0	0	1	203	1	1	0	1	0	0	1	1
76	0	0	1	1	0	0	1	204	0	0	1	1	0	0	1	1
77	1	0	1	1	0	0	1	205	1	0	1	1	0	0	1	1
78	0	1	1	1	0	0	1	206	0	1	1	1	0	0	1	1
79	1	1	1	1	0	0	1	207	1	1	1	1	0	0	1	1
80	0	0	0	0	1	0	1	208	0	0	0	0	1	0	1	1
81	1	0	0	0	1	0	1	209	1	0	0	0	1	0	1	1
82	0	1	0	0	1	0	1	210	0	1	0	0	1	0	1	1
83	1	1	0	0	1	0	1	211	1	1	0	0	1	0	1	1
84	0	0	1	0	1	0	1	212	0	0	1	0	1	0	1	1
85	1	0	1	0	1	0	1	213	1	0	1	0	1	0	1	1
86	0	1	1	0	1	0	1	214	0	1	1	0	1	0	1	1
87	1	1	1	0	1	0	1	215	1	1	1	0	1	0	1	1
88	0	0	0	1	1	0	1	216	0	0	0	1	1	0	1	1
89	1	0	0	1	1	0	1	217	1	0	0	1	1	0	1	1
90	0	1	0	1	1	0	1	218	0	1	0	1	1	0	1	1
91	1	1	0	1	1	0	1	219	1	1	0	1	1	0	1	1
92	0	0	1	1	1	0	1	220	0	0	1	1	1	0	1	1
93	1	0	1	1	1	0	1	221	1	0	1	1	1	0	1	1
94	0	1	1	1	1	0	1	222	0	1	1	1	1	0	1	1
95	1	1	1	1	1	0	1	223	1	1	1	1	1	0	1	1
96	0	0	0	0	0	1	1	224	0	0	0	0	0	1	1	1
97	1	0	0	0	0	1	1	225	1	0	0	0	0	1	1	1
98	0	1	0	0	0	1	1	226	0	1	0	0	0	1	1	1
99	1	1	0	0	0	1	1	227	1	1	0	0	0	1	1	1
100	0	0	1	0	0	1	1	228	0	0	1	0	0	1	1	1
101	1	0	1	0	0	1	1	229	1	0	1	0	0	1	1	1
102	0	1	1	0	0	1	1	230	0	1	1	0	0	1	1	1
103	1	1	1	0	0	1	1	231	1	1	1	0	0	1	1	1
104	0	0	0	1	0	1	1	232	0	0	0	1	0	1	1	1
105	1	0	0	1	0	1	1	233	1	0	0	1	0	1	1	1
106	0	1	0	1	0	1	1	234	0	1	0	1	0	1	1	1
107	1	1	0	1	0	1	1	235	1	1	0	1	0	1	1	1
108	0	0	1	1	0	1	1	236	0	0	1	1	0	1	1	1
109	1	0	1	1	0	1	1	237	1	0	1	1	0	1	1	1
110	0	1	1	1	0	1	1	238	0	1	1	1	0	1	1	1
111	1	1	1	1	0	1	1	239	1	1	1	1	0	1	1	1
112	0	0	0	0	1	1	1	240	0	0	0	0	1	1	1	1
113	1	0	0	0	1	1	1	241	1	0	0	0	1	1	1	1
114	0	1	0	0	1	1	1	242	0	1	0	0	1	1	1	1
115	1	1	0	0	1	1	1	243	1	1	0	0	1	1	1	1
116	0	0	1	0	1	1	1	244	0	0	1	0	1	1	1	1
117	1	0	1	0	1	1	1	245	1	0	1	0	1	1	1	1
118	0	1	1	0	1	1	1	246	0	1	1	0	1	1	1	1
119	1	1	1	0	1	1	1	247	1	1	1	0	1	1	1	1
120	0	0	0	1	1	1	1	248	0	0	0	1	1	1	1	1
121	1	0	0	1	1	1	1	249	1	0	0	1	1	1	1	1
122	0	1	0	1	1	1	1	250	0	1	0	1	1	1	1	1
123	1	1	0	1	1	1	1	251	1	1	0	1	1	1	1	1
124	0	0	1	1	1	1	1	252	0	0	1	1	1	1	1	1
125	1	0	1	1	1	1	1	253	1	0	1	1	1	1	1	1
126	0	1	1	1	1	1	1	254	0	1	1	1	1	1	1	1
127	1	1	1	1	1	1	1	255	1	1	1	1	1	1	1	1

4.4 Function Set

Please firstly confirm the communication protocol and Baud rate, then set SW2 according to Table 3,4 and 5.



P15. Dip Switch SW2

4.4.1 Baud Rate Set

Set the baud rate carefully according to communication requirements. It goes into effect when power on.

T3. Baud Rate Set

BAUD RATE	DIP2	DIP3
2400 bps	OFF	OFF
4800 bps	ON	OFF
9600 bps	OFF	ON

4.4.2 Protocol Set

System supports PLECO P/D protocol, including pan/tilt rotation, lens control, assistant switch, preset operation etc. Under PELCO-P, equipment address might differ 1 digit from output instruction of control system.

T4. Protocol Set

PROTOCOL	DIP4	DIP5
PELCO-P	OFF	OFF
PELCO-D	ON	OFF

4.4.3 Lens control method

The enough space of inner housing enables itself to install cameras of multi models. When using modular cameras, adopt RS232 could provide more functions. See below table for different camera models the equipment supports (You need to confirm the camera brand first and then confirm the camera is with RS232 port). Relay control can be chosen for other cameras supporting the zoom, focus and iris function.

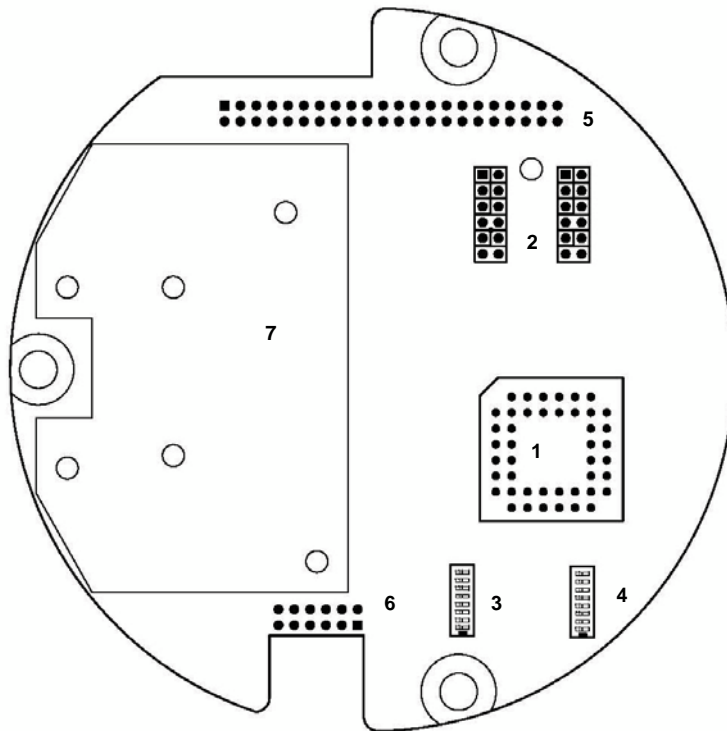
T5. Lens control set

Camera	DIP6	DIP7	DIP8
Relay Control	ON	ON	ON
HITACHI	OFF	ON	ON

SONY	ON	OFF	ON
SANYO	OFF	OFF	ON
LG	ON	ON	OFF
HONEYWELL	OFF	ON	OFF

4.5 Circuit board structure and function definition

This product has equipped special connection board for main circuit board to provide reliable connection and fix for cables. Connection board and main board connect through pins and the main board provides two connector jack to install extend function sub-board.

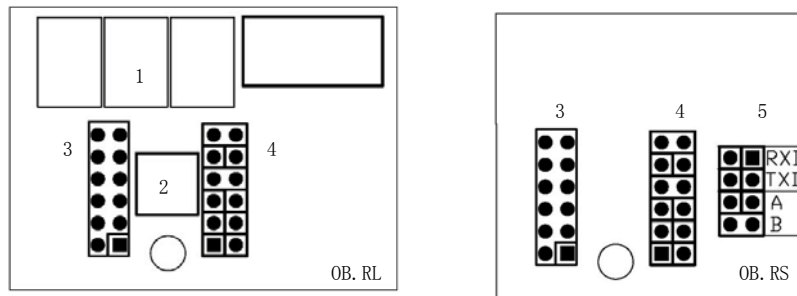


P17. Main circuit board picture

T6. Main board main function definition

No.	Mark	Name	Function
1	U2	CPU	Control core of the whole system
2	—	Camera control sub-board	Different sub-board could control different type of cameras. There are two types of sub-boards by far:

No.	Mark	Name	Function
			OB.RS: RS232, RS485 modes to control camera OB.RL: Relay output, voltage modes to control camera
3	S1	Address select code switch	Address set
4	S2	Function select code switch	Function set such as protocol, baud rate, etc
5	JC3	Main connection pin 1	Connect with the electric of connection board
6	JC4	Main connection pin 2	Connect with the electric of connection board
7	—	Radiator	Driver heat release device could be used two sides



P18. Connection board picture

T7. Connection board main function definition

No.	Mark	Name	Function
1	J1~J6	Relay	Voltage control the lens
2	VR1	Potentiometer	Adjust the lens voltage from 6VDC to 12VDC. 10VDC is default
3	-	Connection pin 1	Connect with main board
4	-	Connection pin 2	Connect with main board
5	JMP4	Function jumper	Choose the camera control ways of RS485 or RS232. One way can be chosen each time. TXD/RXD is for RS232 and A/B is for RS485.

4.6 Camera Connection

Open the back cover of camera housing and get out of the drawer layer for assembly of camera. Fix the

camera on the bottom holes. Test the camera to see if there is any dead angle. Adjust the drawer layer to fix camera. There is wire connection board on the drawer layer, the definition is as follows:

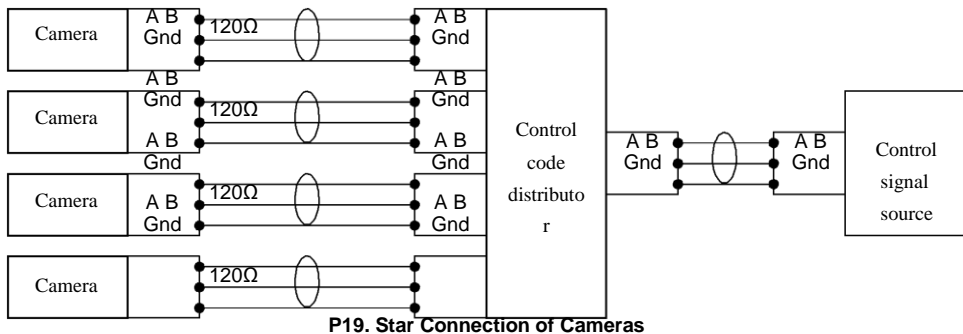
T8. Wire Connection Board Definition

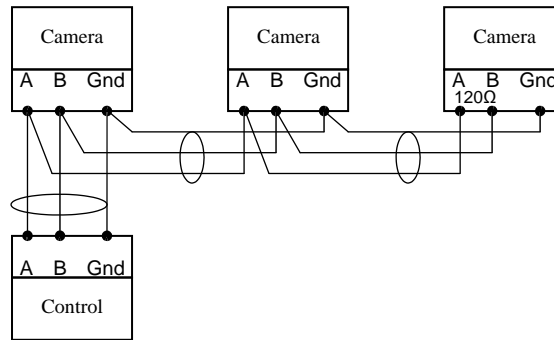
No.	Name	Function	Note
1	TXD	RS232 Transmit	RS232 control lens
2	RXD	RS232 Receive	
3	COM	signal	Relay control lens. 10VAC output. It supports most of lens
4	ZOOM	Zoom	
5	FOCUS	Focus	
6	IRIS	Iris	
7	12VDC	DC12V Power +	Power supply for camera and heater
8	GND	DC12V Power Ground	
9	12VDC	DC12V Power +	
10	GND	DC12V Power Ground	

4.7 Control signal connection

When this system applies in the industrial environment spot. It shall be equipped with Ex-proof junction box,in which connect the video cable, control cable and power cable together.

While connecting Control Source and Cameras as below, please use Control Code Distributor. Besides adding a 120Ohm Terminal Resistor between Terminal A and B (as TB Communication Board, Jumper JMP1 under off position, refer to Table 9.





P20. "chrysanthemum" Connection of Cameras

While connecting Control Source and Camera as below, please just add one 120Ohm Terminal Resistor between Terminal A and B(take off JMP1 from the board).

4.8 Special Preset

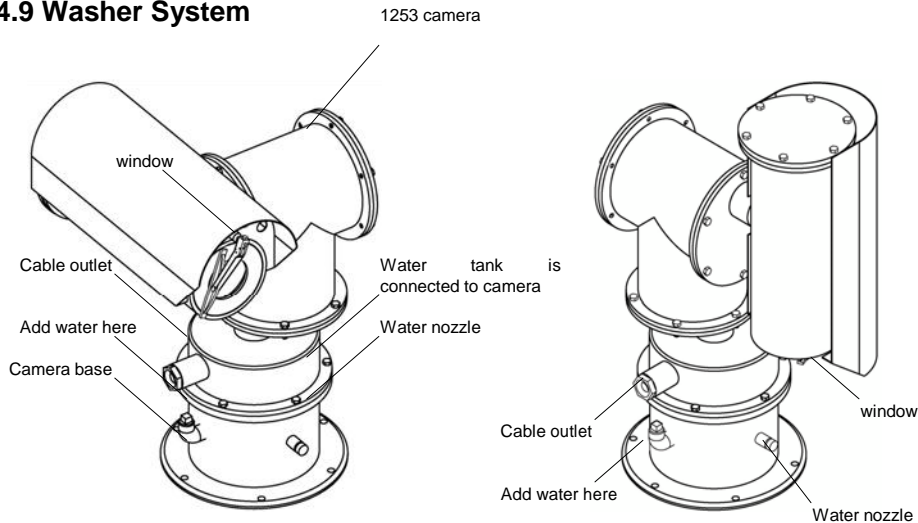
Special functions as listed below can be realized by special preset positions. These presets can not be used for common use and they are only the "Key" to special functions

T9. Special Presets

Preset	Function	Description
32	Start Position	Startup Position when self-examination program finishes
33	Pan Rotation	Flip, Pan will rotate 180 degree
34	Pan Zero Position	Zero, Pan rotates to zero point
63	Sprayer Position Definition	Realized by closing Aux switch 1
80	Open AUX1	Open AUX1 for starting wiper
81	Close AUX1	Close AUX1 for starting sprayer
83	Start Preset Touring	1~16 presets touring
84	Short Time Stay Between Preset Touring	Time for stay can be specified between 2 presets
85	Normal Time Stay Between Preset Touring	Time for stay can be specified between 2 presets
86	Long Time Stay Between Preset Touring	Time for stay can be specified between 2 presets
90	Open AUX2	Open AUX2
91	Close AUX2	Close AUX2
92	Set Left Limit	Set Left Limit by preset 99
93	Set Right Limit	Set Right Limit by preset 99
94	Remote Reset	Remote Reset and the camera will do the self-examination
96	Stop Scan	Stop Scan

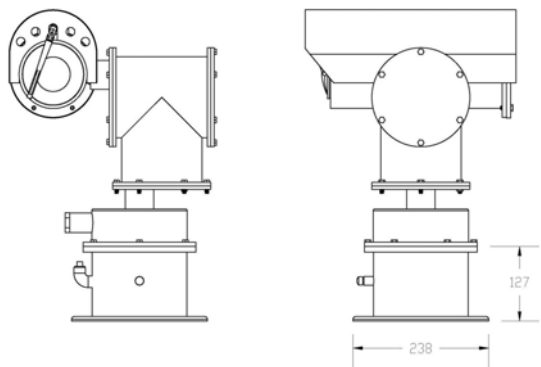
97	Start Preset Touring	1~16 presets touring
99	Start Scan	Start Scan between preset 92 and 93

4.9 Washer System



P16. Camera with water tank

The washer system is equipped on PTZ base to clean window of PTZ. The whole system is composed of 2.5 liter water tank with a pump inside and water nozzle. The nozzle position is fixed on the camera base. When the window needs to be cleaned, run No. 90 Preset (or open AUX. 2 switch). The PTZ will go to special position for nozzle and water will spray out on the window for 2 seconds. The wiper will work at this time. When the cleaning process finishes, the PTZ will go back to the original position. Pay attention special spray liquid is required to avoid freezing in low temperature.



P17. Dimension with water tank

5. FLAMEPROOF STRUCTURE

- „ Completely consider the explosive air getting into ex-proof structure, which may lead to explosion because of some reason and to confirm and ensure camera explosion proof performance based on its structure gap, length and max temperature it will get to.
- „ Enclosure shall burden water pressure testing for 1.5Mpa for 10~12 seconds without leakage as pass, which is ordered in GB3836.2-2000.
- „ Camera surface temperature max shall not over 80℃ while it is working.
- „ Window glass adopts steel glass to burden Impact and Heat change testing.
- „ Enclosure protection to IP66
- „ Cable for Camera uses inlaid device to tighten its screw and nut and make cable tight and no move.

6. TROUBLE SHOOTING

P14. Trouble shooting

Problems	Reason	Method
No image	Power off	Make sure the power is ok
	Video cable not good connection	Check the Video Cable
Sometime no image	Video cable not good connection	Check the Video Cable
Control error	Not good connection of Signal cable	Check Signal Cable is correct connection
	Too long communication distance make signal loose	Add repeaters to make communication distance longer
	Signal reflect	Short connect the farthest camera decoder board'120 and add 120Ω resistance to remove reflect
	Not correct Address	To re-set refer to Manual book
	Not correct Protocol	
	Not correct Baud rate	
Wash system error	No enough pressure in the water tank	Use air pump to add pressure
	Block on the water filling hole is loose	Screw down the block with tools to assure airproof
	The gas leaks from pressure enhancement outlet	Repair or change the valve core of pressure enhancement outlet
	The gas leaks from water spraying outlet	Repair or change the valve core of water spraying outlet
	Water spraying outlet stop up	Clean out water spraying outlet
	Water pipe craze	Change the water pipe
	Water tank craze	Send it back to factory to repair

7. SHIPPING AND STORGE

After package, without rain or snow fall directly to product, shipment could do by air or sea and store for one year under the environment of 0°C~+40°C, humidity >90%.

8. QUALITY GUARANTEE

For any camera produced by Veilux, we promise one year to repair warranty

. During Guarantee period, we supply free service except following situations:

- „ User does not operate as manual book requires
- „ User un-install the whole product by themselves
- „ Lightning or Act of God

If there are additional agreements between Veilux and buyer, then agreements shall be strictly done

9. COMPNY COMITTMENT

- „ Veilux owns the final design changing and final specification rights and no responsibility to inform user
- „ This manual book belongs to Veilux rights, without permits or any book inform, any company or private copy of whole or part of the book shall be prohibited.



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