

4 Trouble Shooting

Problem	Possible Cause	Solution
Power ON/ Receiving Red LED OFF.	Failure of Power supply.	Re-connect properly.
	Power Supply broke.	Replace with good one.
Power ON, Red LED ON, Green LED OFF, Domes no action.	Wrong Controlling Cable connection.	Re-connect Correctly.
Red LED flash and Green LED ON, Domes no action.	The Receiving Protocol is not in accordance with Transmitting Protocol from Matrix or Keyboard.	Reset and power ON again.
	Receiving Baud rate is not in accordance with the transmitting Baud rate from Coaxial converter.	
Both Red and green LED ON, but Domes no action.	Wrongly connecting with Video Cables; or no video on Domes. (Domes' problem)	Re-connect cables and resolve the Dome's problems.
Power ON, both Red / Green LED flash, and Domes no action.	Wrongly address setting or Dome with problems.	Reset and resolve the Dome's problems.

5 Specification

Supply Voltage	DC 9V \pm 20%
Power	\leq 1W
Weight	180 g
Receiving Controlling Mode	RS485/RS422/Manchester/BI-PHASE
Receiving Baud Rate(RS485/ RS232)	2400/4800/9600/19200 BPS
Receiving Baud Rate (MANCHESTER/BI-PHASE)	32KBPS
Transmitting Mode	Coaxial Video
Farthest Transmitting Distance (0.5mm twisted pair cable)	300m
Environmental Temperature	-10 $^{\circ}$ C ~ + 50 $^{\circ}$ C
Dimensions	143 x 67.5 x 34.5(mm)

User Manual

One-Channel Coaxial Converter



① Before use the product, please read this manual carefully.

Contents

1. Main Features	2
2. Installation	2
3. DIP Switches Setting	5
4. Trouble shooting	7
5. Specification	7

2. Protocol Setting (SW2)

Protocol	Switch number							
	<input type="checkbox"/> ON	<input type="checkbox"/>						
	1	2	3	4	5	6	7	8
FACTORY								
VCL	<input type="radio"/>							
PELCO_P		<input type="radio"/>						
PELCO_D	<input type="radio"/>	<input type="radio"/>						
MONYLX			<input type="radio"/>					
VICON	<input type="radio"/>		<input type="radio"/>					
DIAMOND		<input type="radio"/>	<input type="radio"/>					
KALATEL_304	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>					
HUNDA				<input type="radio"/>				
LILIN	<input type="radio"/>			<input type="radio"/>				
SANTACHI		<input type="radio"/>		<input type="radio"/>				
RESERVE	<input type="radio"/>	<input type="radio"/>		<input type="radio"/>				
UNIVISION_V1			<input type="radio"/>	<input type="radio"/>				
UNIVISION_V2	<input type="radio"/>		<input type="radio"/>	<input type="radio"/>				
PHILIPS		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
AD	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>				
ADT					<input type="radio"/>			
PANASONIC	<input type="radio"/>				<input type="radio"/>			
KDEC300		<input type="radio"/>			<input type="radio"/>			
PHILIPS_1	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>			

3. Baud Rate Setting(SW2)

Baud Rate	Switch number							
	<input type="checkbox"/> ON	<input type="checkbox"/>						
	1	2	3	4	5	6	7	8
2400bps								
4800bps							<input type="radio"/>	
9600bps								<input type="radio"/>
19200bps							<input type="radio"/>	<input type="radio"/>

- Baud rate setting is only applied to interface RS485/RS422; While Manchester / Bi-Phase code have been chosen, ignoring any status of Dip Switch No7 or No8, no matter they are ON or OFF.
- Any of re-set by changing the DIP switches setting will not be effective unless power ON again.

3 DIP Switcher Setting

Controlling ID should be set through DIP switcher 1(SW1) (see chart SW1 below, No.1 to No. 254 to be selected as needed; 0: indicates “Testing address”; and No.255 means “Broadcasting address”);

Protocol and baud rate should be set through DIP switcher 2(SW2), Bit 1 ~Bit 6 for setting protocol; Bit7~Bit8 for setting baud rate as instruction. (Round mark of below chart indicates the relative bits of DIP switcher is ON)

1. ID Setting(SW1)

ID	Switch number							
	1	2	3	4	5	6	7	8
0	<input checked="" type="checkbox"/>							
1	<input type="checkbox"/>							
2	<input type="checkbox"/>							
3	<input type="checkbox"/>							
4	<input type="checkbox"/>							
5	<input type="checkbox"/>							
6	<input type="checkbox"/>							
7	<input type="checkbox"/>							
8	<input type="checkbox"/>							
9	<input type="checkbox"/>							
10	<input type="checkbox"/>							
11	<input type="checkbox"/>							
12	<input type="checkbox"/>							
13	<input type="checkbox"/>							
14	<input type="checkbox"/>							
15	<input type="checkbox"/>							
16	<input type="checkbox"/>							
...								
64	<input type="checkbox"/>							
65	<input type="checkbox"/>							
66	<input type="checkbox"/>							
67	<input type="checkbox"/>							
68	<input type="checkbox"/>							
69	<input type="checkbox"/>							
70	<input type="checkbox"/>							
71	<input type="checkbox"/>							
72	<input type="checkbox"/>							
73	<input type="checkbox"/>							
74	<input type="checkbox"/>							
75	<input type="checkbox"/>							
76	<input type="checkbox"/>							

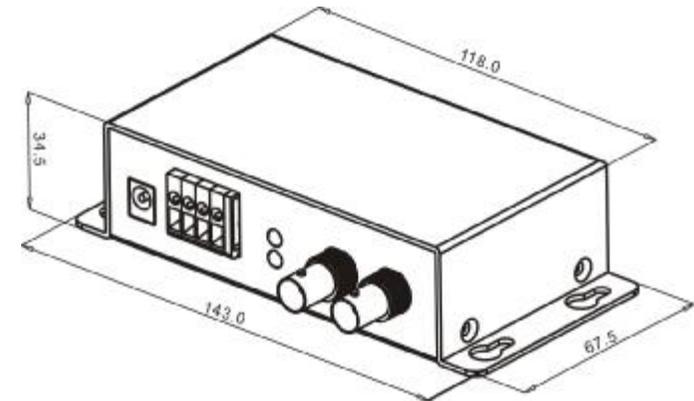
ID	Switch number							
	1	2	3	4	5	6	7	8
77	<input type="checkbox"/>							
...								
227	<input type="checkbox"/>							
228	<input type="checkbox"/>							
229	<input type="checkbox"/>							
230	<input type="checkbox"/>							
231	<input type="checkbox"/>							
232	<input type="checkbox"/>							
233	<input type="checkbox"/>							
234	<input type="checkbox"/>							
235	<input type="checkbox"/>							
236	<input type="checkbox"/>							
237	<input type="checkbox"/>							
238	<input type="checkbox"/>							
239	<input type="checkbox"/>							
240	<input type="checkbox"/>							
241	<input type="checkbox"/>							
242	<input type="checkbox"/>							
243	<input type="checkbox"/>							
244	<input type="checkbox"/>							
245	<input type="checkbox"/>							
246	<input type="checkbox"/>							
247	<input type="checkbox"/>							
248	<input type="checkbox"/>							
249	<input type="checkbox"/>							
250	<input type="checkbox"/>							
251	<input type="checkbox"/>							
252	<input type="checkbox"/>							
253	<input type="checkbox"/>							
254	<input type="checkbox"/>							
255	<input type="checkbox"/>							

1 Main Features

- Receiving Interface: built-in RS485/RS422 , Manchester, BI-Phase Code.
- Transmitting output. (B N C)
- With power supply / receiving red LED and signal transmitting green LED.
- Multi-protocol options are available by setting DIP switches such as: Pelco-d, Pelco-p, Molynx, Vicon, Lilin, Diamond, Kalatel, Hunda, Panasonic, Vcl, Univision, Philips, American dynamics, Santachi, Kdec300,as well as the one created by manufacturer.
- With four options of communication baud rates: 2400bps, 4800bps, 9600bps, 19200bps when interface is RS485 or RS422.
- With 120 Ω jumper in receiving interface.

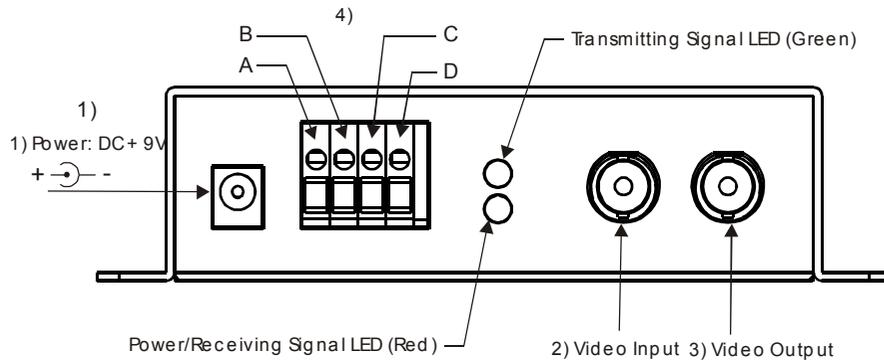
2 Installation

1. Dimensions (mm)



Picture 1

2. Front Panel with Ports



Picture 2

1) Power: DC: +9 Voltage:

2) Video Input: Connect to Video output from Speed Dome.

3) Video Output: Connect to Monitor or Matrix .

4) Controlling Cables Input: (See picture2)

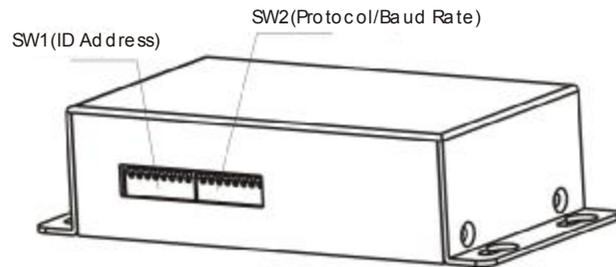
A: W/TX+: Connect to Manchester code, Bi-phase controller output or RS422 Controller RX+;

B: B/TX-: Connect to Manchester code, Bi-phase controller output or RS422 Controller RX-;

C: 485-/RX+: Connect to RS485 controller or RS422 controller TX+;

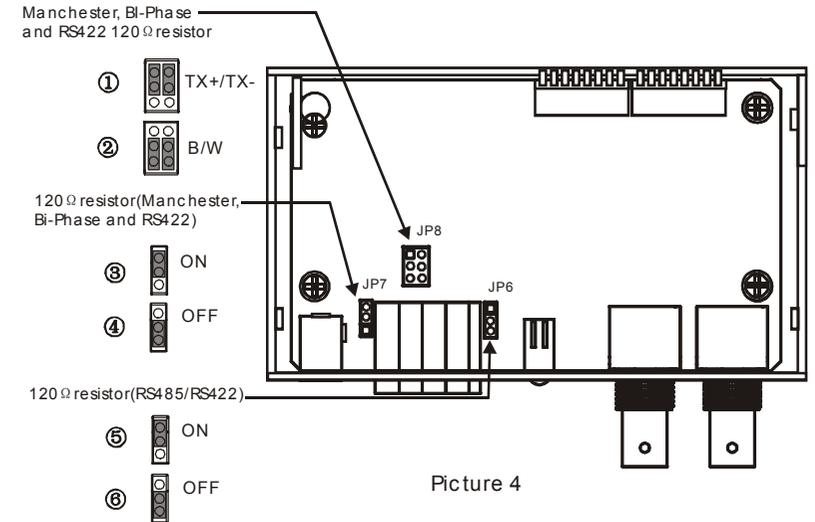
D: 485-/RX-: Connect to RS485 controller or RS422 controller TX-.

3. Rear Panel



Picture 3

4. Jumper Setting (Inside Box)



Picture 4

- Controlling cables connect to input A and B when communication signal are MANCHESTER / BI-PHASE Code or RS422(TX+,TX-), respectively Jumper 8 should be set as following (See picture2 and 4):
 - As ① indicating while connecting RS422(TX+, TX-);
 - As ② indicating while joining MANCHESTER/BI-PHASE code(B, W)
- If controlling bus is located in 50 meters further, the 120 Ω Jumpers of Coaxial converter should be switching ON. Therefore, if more than one Coaxial converter being linked, the 120 Ω Jumper of the farthest one should be switching ON leaving all others OFF, details indicated as below:
 - While joining RS422 (TX+, TX-) and MANCHESTER/BI-PHASE, 120Ω Jumper JP7 should be set as ③ and ④ of Picture 4 indicated. .
 - While joining RS485, RS422(RX+, RX-), 120Ω Jumper JP6 should be set as ⑤ and ⑥ of Picture 4 indicated.

5. Accessories

DC9V Power Sply	1 pc
User Manual	1 set
Warranty Card	1 pc