

Indoor & Outdoor PTZ Decoders BN-800A、BN-800B

User Manual



Berneer production

1. Equipment Profile:

BN-800A and BN-800B intelligent PTZ decoders are kind of front-end equipments matched with CCTV system devices. They can control outdoor pan/tilt, motorized lens, camera, light and wiper. The control mode is RS-485 which is compatible with multi control protocols, so having strong ability of anti-halt, protecting lens motor and auto-select protocol.

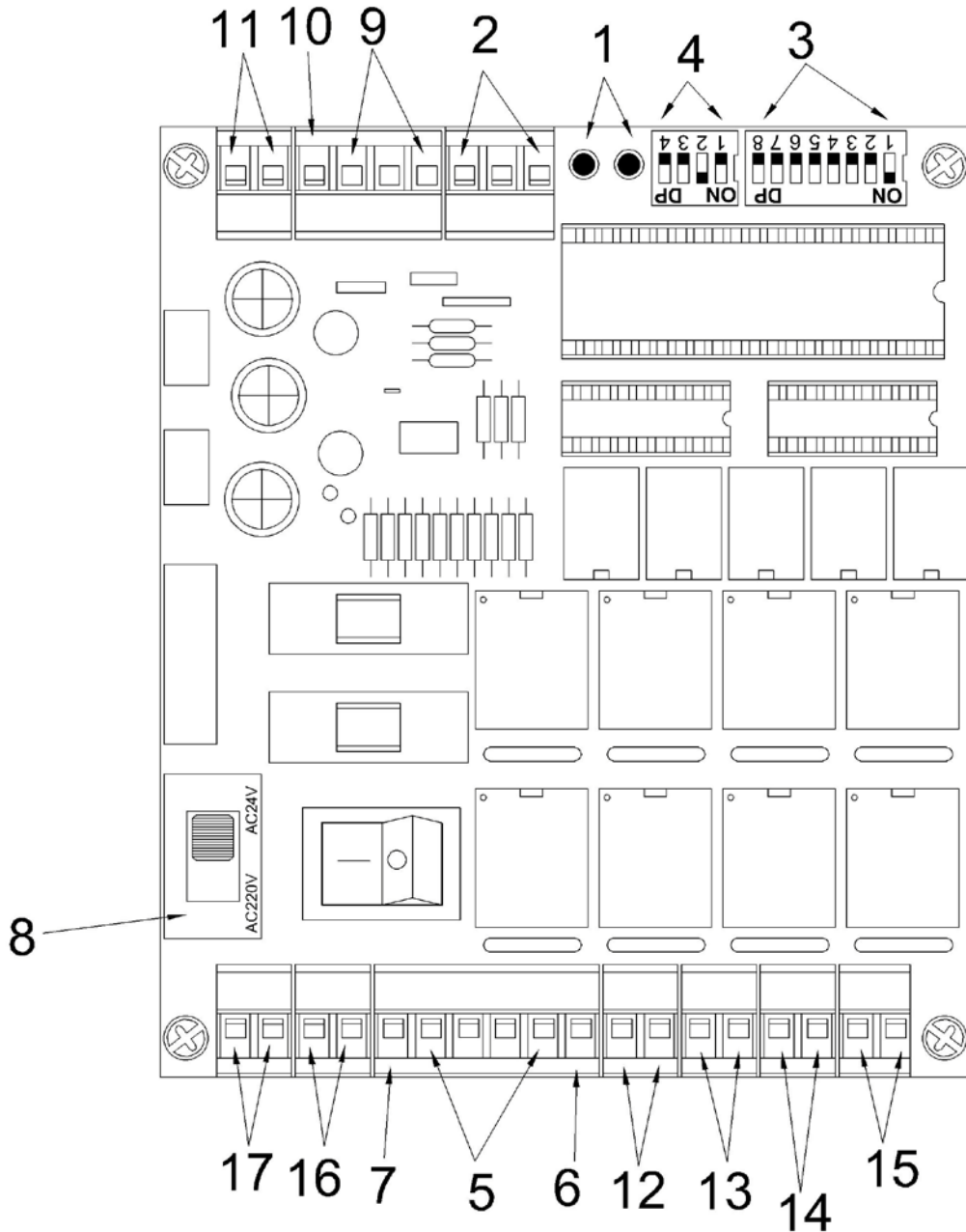
2. Specifications:

Models	BN-800A	BN-800B
Power Supply	AC220V±10%, 50Hz±10%, 30W	AC220V±10%, 50Hz±10%, 50W
Address Range	0~255	
Pan/tilt Voltage	AC220V/1.5A or AC24V/0.8A	
Lens Voltage	DC6V~DV12V, 300mA	
Power Output (DC)	DC12V, 800mA	
Power Output (AC)	AC 24V, 2A	
Communication	RS—485	
Baud Rate	1200/2400/4800/9600Bit/s	1200/2400/4800/9600Bit/s
Protocols	Pelco-D, Pelco-P etc	
Pan/tilt Control	Up/Down/Left/Right/Auto	
Lens Control	Iris/Zoom/Focus	
Assistant Control	1 relay	3 Relay(AC220V/5A)
Use Environments	Indoor	Outdoor
Dimension	246×120 x76mm	255×255×72 mm
Operating Temperature	-10℃~55℃	-10℃~55℃
Weight	1.0kg	2.5kg

3. Equipment Introduction

Number	Name	Notes
1	CODE / POWER	Communication/Power light
2	D- / G / D+	RS485 communication port
3	ID	8-digit address switcher (decoder number) setting
4	FUNCT	Function selecting switcher
5	RIGHT / LEFT /DOWN / UP	Pan/tilt right, pan/tilt left, pan/tilt up or pan/tilt down
6	AUTO	Auto pan/tilt scan
7	PTCOM	Common port of pan/tilt
8	AC220V⇔AC24V	Pan/tilt voltage selection
9	ZOOM / FOCUS / IRIS	Lens focus/lens zoom/lens iris
10	LNCOM	Common port of lens
11	GND / DC12V	600mADC 12V power output, 600mADC capacity
12	LIGHT	Passive control NO (normal open) emergency light (optional)

13	WIPER	Passive control NO (normal open) wiper (optional)
14	AUX	Passive control NO (normal open) auxiliary switcher
15	ALARM IN	Alarm detector input port (optional)
16	AC24V OUTPUT	AC24V power output, 800mA capacity
17	AC220V INPUT	AC220V power input



4. Equipment Setting

4.1 Address setting:

Each decoder must have unique address identified by system. Changing number 1 to number 8 ID terminals can set address number of decoder.

Chart of Address Numbers of Decoder's Manual (Chinese): (1=ON; 0=OFF)

Address Number	ID	Address Number	ID	Address Number	ID	Address Number	ID
	12345678		12345678		12345678		12345678
1	10000000	33	10000100	65	10000010	97	10000110
2	01000000	34	01000100	66	01000010	98	01000110
3	11000000	35	11000100	67	11000010	99	11000110
4	00100000	36	00100100	68	00100010	100	00100110
5	10100000	37	10100100	69	10100010	101	10100110
6	01100000	38	01100100	70	01100010	102	01100110
7	11100000	39	11100100	71	11100010	103	11100110
8	00010000	40	00010100	72	00010010	104	00010110
9	10010000	41	10010100	73	10010010	105	10010110
10	01010000	42	01010100	74	01010010	106	01010110
11	11010000	43	11010100	75	11010010	107	11010110
12	00110000	44	00110100	76	00110010	108	00110110
13	10110000	45	10110100	77	10110010	109	10110110
14	01110000	46	01110100	78	01110010	110	01110110
15	11110000	47	11110100	79	11110010	111	11110110
16	00001000	48	00001100	80	00001010	112	00001110
17	10001000	49	10001100	81	10001010	113	10001110
18	01001000	50	01001100	82	01001010	114	01001110
19	11001000	51	11001100	83	11001010	115	11001110
20	00101000	52	00101100	84	00101010	116	00101110
21	10101000	53	10101100	85	10101010	117	10101110
22	01101000	54	01101100	86	01101010	118	01101110
23	11101000	55	11101100	87	11101010	119	11101110
24	00011000	56	00011100	88	00011010	120	00011110
25	10011000	57	10011100	89	10011010	121	10011110
26	01011000	58	01011100	90	01011010	122	01011110
27	11011000	59	11011100	91	11011010	123	11011110
28	00111000	60	00111100	92	00111010	124	00111110
29	10111000	61	10111100	93	10111010	125	10111110
30	01111000	62	01111100	94	01111010	126	01111110
31	11111000	63	11111100	95	11111010	127	11111110
32	00000100	64	00000010	96	00000110	128	00000001

129	10000001	161	10000101	193	10000011	225	10000111
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130	01000001	162	01000101	194	01000011	226	01000111
131	11000001	163	11000101	195	11000011	227	11000111
132	00100001	164	00100101	196	00100011	228	00100111
133	10100001	165	10100101	197	10100011	229	10100111
134	01100001	166	01100101	198	01100011	230	01100111
135	11100001	167	11100101	199	11100011	231	11100111
136	00010001	168	00010101	200	00010011	232	00010111
137	10010001	169	10010101	201	10010011	233	10010111
138	01010001	170	01010101	202	01010011	234	01010111
139	11010001	171	11010101	203	11010011	235	11010111
140	00110001	172	00110101	204	00110011	236	00110111
141	10110001	173	10110101	205	10110011	237	10110111
142	01110001	174	01110101	206	01110011	238	01110111
143	11110001	175	11110101	207	11110011	239	11110111
144	00001001	176	00001101	208	00001011	240	00001111
145	10001001	177	10001101	209	10001011	241	10001111
146	01001001	178	01001101	210	01001011	242	01001111
147	11001001	179	11001101	211	11001011	243	11001111
148	00101001	180	00101101	212	00101011	244	00101111
149	10101001	181	10101101	213	10101011	245	10101111
150	01101001	182	01101101	214	01101011	246	01101111
151	11101001	183	11101101	215	11101011	247	11101111
152	00011001	184	00011101	216	00011011	248	00011111
153	10011001	185	10011101	217	10011011	249	10011111
154	01011001	186	01011101	218	01011011	250	01011111
155	11011001	187	11011101	219	11011011	251	11011111
156	00111001	188	00111101	220	00111011	252	00111111
157	10111001	189	10111101	221	10111011	253	10111111
158	01111001	190	01111101	222	01111011	254	01111111
159	11111001	191	11111101	223	11111011	255	11111111
160	00000101	192	00000011	224	00000111	256	00000000

4.2 Baud rate selection setting:

Changing number 1 and number 2 terminals of FUNCT can set baud rate value of decoder. Baud rate selection ensures same speed of transmission between decoder and control device.

FUNCT		Baud Rate
1	2	
1	0	1200
0	1	2400
1	1	4800
0	0	9600

4.3 Protocol setting:

Select decoder working under different protocols. Changing number 3 and number 4 terminals of FUNCT can set protocol.

FUNCT		Protocol
3	4	
0	0	Auto select protocol
1	0	PELCO
1	1	Self-checking function

Auto select protocols: PELCO、Philips、SAMSUNG、RM110、CCR-20G、HY、ZR、KALATEL、KRE-301、VICON、ORX-10、PANASONIC、YAAN、ALEC、Hacni (total 16 kinds of protocols)