INSTALLATION

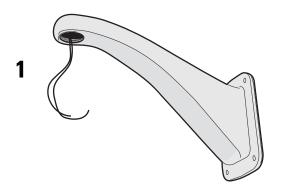


Heavy-Duty Spectra® IV Series



Pendant Back Box

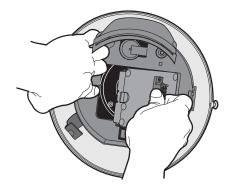
Installation



3



2



- 1. Install the mount for the pendant dome. Refer to the instructions supplied with the mount. If the mount is outdoors, make sure it is properly sealed to keep moisture out.
- 2. Open the hinged door to the back box. Push the tab lock towards the wall of the unit and lift the door open. Pull wiring into the back box. Refer to Table A, Table B, and Table C for wiring distances.
- 3. Screw the back box onto the mount. If outdoors, apply thread compound (provided) to the threads on the back box.

NOTE: Thread compound must be applied. Not doing so may prevent the units from being separated in the future.

Table A. Video Coaxial Cable Requirements

Cable Type*	Maximum Distance
RG59/U	750 ft (229 m)
RG6/U	1,000 ft (305 m)
RG11/U	1,500 ft (457 m)

^{*}Cable requirements:
75 ohms impedance
All-copper center conductor
All-copper braided shield with 95% braid

coverage

The following are the recommended maximum distances for 24 VAC and 24 VDC applications and are calculated with a 10 percent voltage drop. (Ten percent is generally the maximum allowable voltage drop for AC- or DC-powered devices.)

Table B. 24 VAC/24VDC Wiring Distances

AC/DC		Wire Gauge								
Total VA/	20 AWG	18 AWG	16 AWG	14 AWG						
Total Watts	(0.5 mm ²)	(1.0 mm²)	(1.5 mm²)	(2.5 mm²)						
23 VA/	123 ft	196 ft	311 ft	495 ft						
15 watts	(38 m)	(60 m)	(95 m)	(151 m)						
73 VA/	39 ft	62 ft	98 ft	156 ft						
65 watts	(12 m)	(19 m)	(30 m)	(48 m)						

NOTE: Input power for the dome is 24 VAC or 24 VDC. Using 24 VAC input power, power consumption is 23 VA per dome for indoor models and 73 VA for outdoor models. Using 24 VDC input power, power consumption is 0.7 A (15 watts) for indoor models and 3 A (65 watts) for outdoor models.

Use a 24 VAC trasnformer with the following minimum VA:

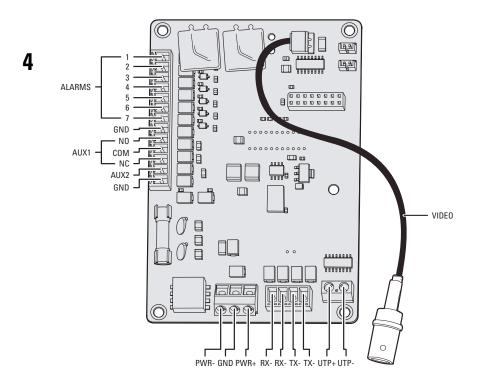
40 VA per dome For indoor models (without heater) 100 VA per dome For outdoor models (with heater)

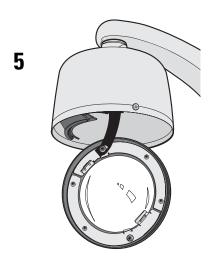
Table C. UTP Wiring Distances

Receiver	Maximum Distance
Active	0-3,000 ft
(Video Only)	(0-914.4 m)
Passive	0-750 ft
(Video, Coaxitron, Pelco V-Sync)	(0-228.6 m)

NOTE: As a minimum, UTP requires Cat5, 100-ohm twisted pair cable

ha fallowing are the recommended maximum distances





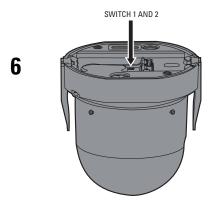
- **WARNING:** An electrical short in the back box may occur if the metal BNC connector is not completely covered by the protective boot.
- 4. Connect wiring to the circuit board inside the back box. When finished, close the door to the back box and turn on the power. The green LED will light.

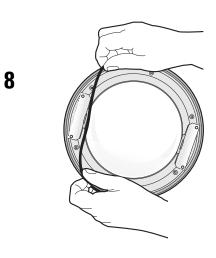
NOTES:

Aux 1: Maximum 2 A at low voltage (<40 V)

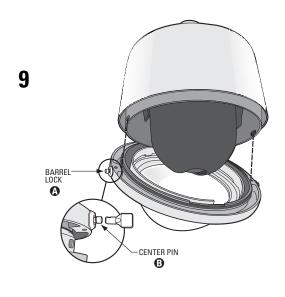
Aux 2: Maximum 30 mA at 32 VDC

- If you are using both unshielded twisted pair (UTP) wiring and a translator board, install the UTP wiring before
 installing the translator board.
- If you are installing an environmental back box in a railway application, attach a ground wire from the circuit board power connector to a structural ground using at least 18-gauge wire.
- 5 Attach the back box leash to the lower dome









- 6. Configure DIP switches SW1 and SW2 located on the top of the dome drive. For DIP switch settings, refer to the labels located on the top of the dome drive or to the *Switch Settings* section of this manual.
 - **NOTE:** When connecting more than one Spectra dome to a single controller, terminate the unit farthest from the controller. To terminate the dome drive set the SW2-10 switch to the ON position.
- 7. Install the dome drive. Line up the blue and red tabs with the blue and red arrows on the hinged door inside the back box. Push in on the tabs. Insert one side and then the other side. Continue pushing on the ends of the tabs until both sides click into place.
- 8. Lightly apply 0-ring lubricant to the 0-ring. Install the 0-ring in the groove on the trim ring of the lower dome.
- 9. Align barrel locks (A) in lower dome with the holes located on each side of the back box. Push lower dome onto back box. Press the pins (B) of the barrel locks IN to secure the lower dome.

To use your dome, refer to the operation and programming manual.

Troubleshooting

If your dome does not power up properly after installation, use the following steps.

- 1. Check the fuse on the circuit board inside the back box for continuity. Replace the fuse if needed.
- 2. Check the wiring with a volt meter to ensure proper voltage is being received into the back box.

If your dome powers up correctly, but you do not have accurate control, use the following steps.

1. Check the signal with a volt meter or an oscilloscope.

NOTE: This step will not apply if you are using Coaxitron control.

- 2. Ensure that the switch settings on the dome drive are set correctly. Refer to the Switch Settings section.
- 3. If you are using a Pelco controller, ensure that the factory-installed 16-pin jumper has not been removed. If you are using a third-party controller, a TXB Series translator board must be installed. The dome will not function without this 16-pin jumper or a translator board installed.

Switch Settings



WARNING: If you are using D-type or P-type control, your system may not operate if the baud rate and address switches are not set correctly. The switches are set at the factory at the defaults for D-type control (2400 baud and address 1).

Table D. Switch Settings for SW2

Special Systems										
Switch Number	1	2	3	4	5	6	7	8	9	10
AD-32 Preset System	ON									
CM9502 Setting		ON								
Vicon	Not currently available; SW2-3 is reserved for future use.									

D or P Protocol Baud Rate										
Switch Number	1	2	3	4	5	6	7	8	9	10
2400 Baud (Default for D-type Control)						OFF	OFF	OFF		
4800 Baud (Default for P-type Control)						ON	OFF	OFF		
9600 Baud						OFF	ON	OFF		

Video Cable Type										
Switch Number	1	2	3	4	5	6	7	8	9	10
Coax Cable									OFF	
UTP Cable									ON	

Dome Termination										
Switch Number	1	2	3	4	5	6	7	8	9	10
Terminated										ON
Not Terminated										OFF

Table E. Switch Settings for SW1, P-Type Control

NOTE: For Coaxitron controls, SW1 is not used; set all switches OFF. For D-type control systems, refer to Table F.

SPECTRA		SW	ITCH SETTI	ING	
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5
1	OFF	0FF	0FF	0FF	OFF
2	ON	0FF	0FF	0FF	0FF
3	0FF	ON	0FF	0FF	0FF
4	ON	ON	0FF	0FF	0FF
5	0FF	0FF	ON	0FF	0FF
6	ON	0FF	ON	0FF	0FF
7	0FF	ON	ON	0FF	0FF
8	ON	ON	ON	0FF	0FF
9	0FF	0FF	0FF	ON	0FF
10	ON	0FF	0FF	ON	0FF
11	0FF	ON	0FF	ON	0FF
12	ON	ON	0FF	ON	0FF
13	0FF	0FF	ON	ON	0FF
14	ON	0FF	ON	ON	0FF
15	OFF	ON	ON	ON	OFF
16	ON	ON	ON	ON	0FF

SPECTRA		SW	/ITCH SETTI	NG	
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5
17	0FF	0FF	0FF	0FF	ON
18	ON	0FF	0FF	0FF	ON
19	0FF	ON	0FF	0FF	ON
20	ON	ON	0FF	0FF	ON
21	0FF	0FF	ON	0FF	ON
22	ON	0FF	ON	0FF	ON
23	0FF	ON	ON	0FF	ON
24	ON	ON	ON	0FF	ON
25	0FF	0FF	0FF	ON	ON
26	ON	0FF	0FF	ON	ON
27	0FF	ON	0FF	ON	ON
28	ON	ON	0FF	ON	ON
29	0FF	0FF	ON	ON	ON
30	ON	0FF	ON	ON	ON
31	0FF	ON	ON	ON	ON
32	ON	ON	ON	ON	ON

Table F. Switch Settings for SW1, D-Type Control

NOTE: For Coaxitron controls, SW1 is not used; set all switches OFF. For P-type control systems, refer to Table E.

SPECTRA			,	SWITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
1	ON	0FF	0FF	0FF	0FF	0FF	0FF	0FF
2	0FF	ON	0FF	0FF	OFF	0FF	0FF	0FF
3	ON	ON	0FF	OFF	OFF	OFF	0FF	OFF
4	OFF	OFF	ON	OFF	OFF	OFF	0FF	0FF
5	ON	OFF	ON	OFF	OFF	OFF	0FF	0FF
6	OFF	ON	ON	OFF	OFF	OFF	0FF	OFF
7	ON	ON	ON	OFF	OFF	OFF	0FF	0FF
8	OFF	OFF	0FF	ON	OFF	OFF	0FF	OFF
9	ON	OFF	0FF	ON	OFF	OFF	0FF	0FF
10	0FF	ON	0FF	ON	OFF	0FF	0FF	0FF
11	ON	ON	0FF	ON	OFF	OFF	0FF	0FF
12	0FF	0FF	ON	ON	0FF	0FF	0FF	0FF
13	ON	0FF	ON	ON	0FF	0FF	0FF	0FF
14	OFF	ON	ON	ON	0FF	0FF	0FF	0FF
15	ON	ON	ON	ON	0FF	0FF	0FF	0FF

SPECTRA			;	SWITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
16	OFF	0FF	0FF	0FF	ON	0FF	0FF	0FF
17	ON	0FF	0FF	0FF	ON	0FF	0FF	0FF
18	OFF	ON	OFF	0FF	ON	OFF	0FF	OFF
19	ON	ON	0FF	0FF	ON	0FF	0FF	0FF
20	OFF	OFF	ON	0FF	ON	OFF	0FF	OFF
21	ON	0FF	ON	0FF	ON	0FF	0FF	0FF
22	OFF	ON	ON	OFF	ON	OFF	0FF	OFF
23	ON	ON	ON	0FF	ON	0FF	0FF	0FF
24	OFF	OFF	0FF	ON	ON	OFF	0FF	OFF
25	ON	OFF	0FF	ON	ON	0FF	0FF	0FF
26	OFF	ON	OFF	ON	ON	OFF	OFF	OFF
27	ON	ON	0FF	ON	ON	0FF	0FF	0FF
28	OFF	OFF	ON	ON	ON	OFF	OFF	OFF
29	ON	0FF	ON	ON	ON	OFF	OFF	OFF
30	OFF	ON	ON	ON	ON	OFF	OFF	OFF

SPECTRA			:	SWITCH	SETTING	ì		
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8
31	ON	ON	ON	ON	ON	OFF	OFF	OFF
32	OFF	OFF	0FF	OFF	OFF	ON	0FF	OFF
33	ON	OFF	0FF	OFF	OFF	ON	OFF	OFF
34	OFF	ON	0FF	OFF	OFF	ON	OFF	OFF
35	ON	ON	0FF	0FF	OFF	ON	0FF	OFF
36	OFF	OFF	ON	0FF	OFF	ON	0FF	OFF
37	ON	0FF	ON	0FF	0FF	ON	0FF	0FF
38	OFF	ON	ON	0FF	0FF	ON	0FF	OFF
39	ON	ON	ON	OFF	OFF	ON	0FF	OFF
40	OFF	OFF	0FF	ON	OFF	ON	0FF	OFF
41	ON	OFF	0FF	ON	OFF	ON	0FF	OFF
42	OFF	ON	0FF	ON	OFF	ON	0FF	OFF
43	ON	ON	0FF	ON	OFF	ON	0FF	OFF
44	OFF	OFF	ON	ON	OFF	ON	0FF	OFF
45	ON	OFF	ON	ON	OFF	ON	0FF	OFF
46	OFF	ON	ON	ON	OFF	ON	0FF	OFF
47	ON	ON	ON	ON	OFF	ON	0FF	OFF
48	OFF	OFF	OFF	OFF	ON	ON	0FF	OFF
49	ON	0FF	0FF	0FF	ON	ON	0FF	0FF
50	OFF	ON	OFF	OFF	ON	ON	0FF	OFF
51	ON	ON	0FF	0FF	ON	ON	0FF	0FF
52	OFF	0FF	ON	0FF	ON	ON	0FF	OFF
53	ON	0FF	ON	0FF	ON	ON	0FF	0FF
54	OFF	ON	ON	0FF	ON	ON	0FF	OFF
55	ON	ON	ON	OFF	ON	ON	OFF	OFF
56	OFF	0FF	0FF	ON	ON	ON	0FF	OFF
57	ON	OFF	0FF	ON	ON	ON	OFF	OFF
58	OFF	ON	0FF	ON	ON	ON	OFF	OFF
59	ON	ON	0FF	ON	ON	ON	OFF	OFF
60	OFF	OFF	ON	ON	ON	ON	OFF	OFF
61	ON	OFF	ON	ON	ON	ON	OFF	OFF
62	OFF	ON	ON	ON	ON	ON	0FF	OFF
63	ON	ON	ON	ON	ON	ON	OFF	OFF
64	OFF	OFF	OFF	OFF	OFF	OFF	ON	OFF
65	ON	OFF	OFF	OFF	OFF	OFF	ON	OFF
66	OFF	ON	OFF	OFF	OFF	OFF	ON	OFF
67	ON	ON	OFF	OFF	OFF	OFF	ON	OFF
68	OFF	OFF	ON	OFF	OFF	OFF	ON	OFF
69	ON	OFF	ON	OFF	OFF	OFF	ON	0FF
70	OFF	ON	ON	OFF	OFF	0FF	ON	OFF

SPECTRA	SWITCH SETTING									
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8		
71	ON	ON	ON	OFF	OFF	OFF	ON	OFF		
72	OFF	0FF	0FF	ON	0FF	OFF	ON	OFF		
73	ON	OFF	OFF	ON	OFF	OFF	ON	OFF		
74	OFF	ON	OFF	ON	OFF	OFF	ON	OFF		
75	ON	ON	OFF	ON	OFF	0FF	ON	0FF		
76	OFF	OFF	ON	ON	0FF	0FF	ON	0FF		
77	ON	OFF	ON	ON	OFF	OFF	ON	OFF		
78	0FF	ON	ON	ON	0FF	0FF	ON	0FF		
79	ON	ON	ON	ON	0FF	0FF	ON	0FF		
80	0FF	0FF	0FF	0FF	ON	0FF	ON	0FF		
81	ON	0FF	0FF	0FF	ON	0FF	ON	0FF		
82	0FF	ON	0FF	0FF	ON	0FF	ON	0FF		
83	ON	ON	0FF	0FF	ON	0FF	ON	0FF		
84	0FF	0FF	ON	0FF	ON	0FF	ON	0FF		
85	ON	OFF	ON	OFF	ON	OFF	ON	OFF		
86	0FF	ON	ON	0FF	ON	0FF	ON	0FF		
87	ON	ON	ON	0FF	ON	0FF	ON	0FF		
88	0FF	OFF	OFF	ON	ON	0FF	ON	0FF		
89	ON	OFF	OFF	ON	ON	OFF	ON	OFF		
90	0FF	ON	OFF	ON	ON	0FF	ON	0FF		
91	ON	ON	OFF	ON	ON	OFF	ON	OFF		
92	0FF	0FF	ON	ON	ON	0FF	ON	0FF		
93	ON	0FF	ON	ON	ON	0FF	ON	0FF		
94	0FF	ON	ON	ON	ON	0FF	ON	0FF		
95	ON	ON	ON	ON	ON	OFF	ON	OFF		
96	OFF	OFF	OFF	OFF	OFF	ON	ON	0FF		
97	ON	0FF	0FF	0FF	0FF	ON	ON	0FF		
98	0FF	ON	OFF	OFF	0FF	ON	ON	0FF		
99	ON	ON	0FF	0FF	0FF	ON	ON	0FF		
100	0FF	0FF	ON	0FF	0FF	ON	ON	0FF		
101	ON	0FF	ON	0FF	0FF	ON	ON	0FF		
102	0FF	ON	ON	0FF	0FF	ON	ON	0FF		
103	ON	ON	ON	0FF	0FF	ON	ON	0FF		
104	0FF	0FF	0FF	ON	0FF	ON	ON	0FF		
105	ON	OFF	0FF	ON	0FF	ON	ON	OFF		
106	OFF	ON	0FF	ON	0FF	ON	ON	OFF		
107	ON	ON	0FF	ON	0FF	ON	ON	OFF		
108	OFF	OFF	ON	ON	OFF	ON	ON	OFF		
109	ON	0FF	ON	ON	0FF	ON	ON	OFF		
110	OFF	ON	ON	ON	OFF	ON	ON	OFF		

SPECTRA	SWITCH SETTING								
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8	
111	ON	ON	ON	ON	OFF	ON	ON	OFF	
112	OFF	0FF	0FF	0FF	ON	ON	ON	0FF	
113	ON	0FF	0FF	0FF	ON	ON	ON	OFF	
114	0FF	ON	0FF	0FF	ON	ON	ON	OFF	
115	ON	ON	OFF	OFF	ON	ON	ON	OFF	
116	0FF	0FF	ON	0FF	ON	ON	ON	0FF	
117	ON	OFF	ON	OFF	ON	ON	ON	OFF	
118	OFF	ON	ON	OFF	ON	ON	ON	OFF	
119	ON	ON	ON	OFF	ON	ON	ON	OFF	
120	OFF	OFF	OFF	ON	ON	ON	ON	OFF	
121	ON	OFF	OFF	ON	ON	ON	ON	OFF	
122	OFF	ON	0FF	ON	ON	ON	ON	OFF	
123	ON	ON	OFF	ON	ON	ON	ON	OFF	
124	0FF	0FF	ON	ON	ON	ON	ON	0FF	
125	ON	OFF	ON	ON	ON	ON	ON	OFF	
126	OFF	ON	ON	ON	ON	ON	ON	OFF	
127	ON	ON	ON	ON	ON	ON	ON	OFF	
128	OFF	OFF	OFF	OFF	OFF	0FF	OFF	ON	
129	ON	OFF	OFF	OFF	OFF	OFF	OFF	ON	
130	OFF	ON	OFF	OFF	OFF	0FF	OFF	ON	
131	ON	ON	OFF	OFF	OFF	OFF	OFF	ON	
132	OFF	OFF	ON	OFF	OFF	0FF	OFF	ON	
133	ON	OFF	ON	0FF	0FF	0FF	0FF	ON	
134	OFF	ON	ON	OFF	OFF	0FF	OFF	ON	
135	ON	ON	ON	0FF	0FF	0FF	0FF	ON	
136	OFF	OFF	OFF	ON	OFF	0FF	OFF	ON	
137	ON	OFF	OFF	ON	OFF	OFF	OFF	ON	
138	0FF	ON	0FF	ON	0FF	OFF	0FF	ON	
139	ON	ON	0FF	ON	0FF	0FF	0FF	ON	
140	0FF	0FF	ON	ON	0FF	0FF	0FF	ON	
141	ON	OFF	ON	ON	OFF	OFF	OFF	ON	
142	0FF	ON	ON	ON	0FF	0FF	0FF	ON	
143	ON	ON	ON	ON	0FF	0FF	0FF	ON	
144	0FF	0FF	0FF	0FF	ON	0FF	0FF	ON	
145	ON	OFF	OFF	OFF	ON	OFF	OFF	ON	
146	OFF	ON	0FF	0FF	ON	OFF	0FF	ON	
147	ON	ON	OFF	OFF	ON	OFF	OFF	ON	
148	OFF	0FF	ON	0FF	ON	OFF	0FF	ON	
149	ON	OFF	ON	OFF	ON	OFF	OFF	ON	
150	OFF	ON	ON	OFF	ON	0FF	OFF	ON	

SPECTRA	SWITCH SETTING								
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8	
151	ON	ON	ON	0FF	ON	0FF	OFF	ON	
152	OFF	0FF	0FF	ON	ON	0FF	OFF	ON	
153	ON	OFF	OFF	ON	ON	OFF	OFF	ON	
154	OFF	ON	0FF	ON	ON	0FF	0FF	ON	
155	ON	ON	0FF	ON	ON	OFF	0FF	ON	
156	0FF	OFF	ON	ON	ON	OFF	0FF	ON	
157	ON	OFF	ON	ON	ON	OFF	OFF	ON	
158	OFF	ON	ON	ON	ON	0FF	0FF	ON	
159	ON	ON	ON	ON	ON	0FF	0FF	ON	
160	OFF	OFF	0FF	OFF	0FF	ON	OFF	ON	
161	ON	OFF	OFF	OFF	OFF	ON	OFF	ON	
162	OFF	ON	0FF	0FF	0FF	ON	OFF	ON	
163	ON	ON	OFF	OFF	OFF	ON	OFF	ON	
164	OFF	OFF	ON	0FF	0FF	ON	OFF	ON	
165	ON	OFF	ON	OFF	OFF	ON	OFF	ON	
166	OFF	ON	ON	0FF	0FF	ON	OFF	ON	
167	ON	ON	ON	0FF	OFF	ON	OFF	ON	
168	OFF	OFF	0FF	ON	0FF	ON	OFF	ON	
169	ON	OFF	OFF	ON	OFF	ON	OFF	ON	
170	OFF	ON	0FF	ON	0FF	ON	OFF	ON	
171	ON	ON	OFF	ON	OFF	ON	OFF	ON	
172	OFF	OFF	ON	ON	0FF	ON	OFF	ON	
173	ON	OFF	ON	ON	OFF	ON	OFF	ON	
174	OFF	ON	ON	ON	0FF	ON	OFF	ON	
175	ON	ON	ON	ON	OFF	ON	OFF	ON	
176	OFF	OFF	0FF	OFF	ON	ON	0FF	ON	
177	ON	OFF	0FF	0FF	ON	ON	0FF	ON	
178	0FF	ON	0FF	0FF	ON	ON	0FF	ON	
179	ON	ON	OFF	OFF	ON	ON	0FF	ON	
180	OFF	0FF	ON	0FF	ON	ON	0FF	ON	
181	ON	OFF	ON	OFF	ON	ON	OFF	ON	
182	OFF	ON	ON	0FF	ON	ON	0FF	ON	
183	ON	ON	ON	OFF	ON	ON	OFF	ON	
184	OFF	0FF	OFF	ON	ON	ON	OFF	ON	
185	ON	OFF	0FF	ON	ON	ON	OFF	ON	
186	OFF	ON	OFF	ON	ON	ON	OFF	ON	
187	ON	ON	0FF	ON	ON	ON	OFF	ON	
188	OFF	OFF	ON	ON	ON	ON	OFF	ON	
189	ON	OFF	ON	ON	ON	ON	OFF	ON	
190	OFF	ON	ON	ON	ON	ON	0FF	ON	

SPECTRA	SWITCH SETTING								
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8	
191	ON	ON	ON	ON	ON	ON	0FF	ON	
192	OFF	0FF	0FF	0FF	0FF	OFF	ON	ON	
193	ON	0FF	0FF	OFF	OFF	OFF	ON	ON	
194	0FF	ON	0FF	0FF	0FF	0FF	ON	ON	
195	ON	ON	0FF	0FF	0FF	0FF	ON	ON	
196	0FF	0FF	ON	0FF	0FF	0FF	ON	ON	
197	ON	OFF	ON	OFF	OFF	OFF	ON	ON	
198	OFF	ON	ON	OFF	OFF	OFF	ON	ON	
199	ON	ON	ON	0FF	0FF	OFF	ON	ON	
200	0FF	OFF	0FF	ON	0FF	OFF	ON	ON	
201	ON	0FF	0FF	ON	0FF	OFF	ON	ON	
202	0FF	ON	0FF	ON	0FF	OFF	ON	ON	
203	ON	ON	0FF	ON	OFF	OFF	ON	ON	
204	0FF	OFF	ON	ON	0FF	OFF	ON	ON	
205	ON	0FF	ON	ON	0FF	OFF	ON	ON	
206	OFF	ON	ON	ON	0FF	OFF	ON	ON	
207	ON	ON	ON	ON	0FF	OFF	ON	ON	
208	OFF	0FF	0FF	0FF	ON	OFF	ON	ON	
209	ON	OFF	OFF	OFF	ON	OFF	ON	ON	
210	OFF	ON	OFF	OFF	ON	OFF	ON	ON	
211	ON	ON	OFF	OFF	ON	OFF	ON	ON	
212	OFF	OFF	ON	OFF	ON	OFF	ON	ON	
213	ON	OFF	ON	OFF	ON	OFF	ON	ON	
214	OFF	ON	ON	OFF	ON	OFF	ON	ON	
215	ON	ON	ON	OFF	ON	OFF	ON	ON	
216	OFF	OFF	OFF	ON	ON	OFF	ON	ON	
217	ON	OFF	OFF	ON	ON	OFF	ON	ON	
218	OFF	ON	OFF	ON	ON	OFF	ON	ON	
219	ON	ON	OFF	ON	ON	OFF	ON	ON	
220	OFF	OFF	ON	ON	ON	OFF	ON	ON	
221	ON	OFF	ON	ON	ON	OFF	ON	ON	
222	OFF	ON	ON	ON	ON	OFF	ON	ON	

SPECTRA	SWITCH SETTING								
ADDRESS	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7	SW1-8	
223	ON	ON	ON	ON	ON	OFF	ON	ON	
224	0FF	0FF	0FF	0FF	0FF	ON	ON	ON	
225	ON	OFF	OFF	OFF	0FF	ON	ON	ON	
226	0FF	ON	0FF	0FF	0FF	ON	ON	ON	
227	ON	ON	OFF	OFF	OFF	ON	ON	ON	
228	OFF	OFF	ON	OFF	OFF	ON	ON	ON	
229	ON	OFF	ON	OFF	OFF	ON	ON	ON	
230	0FF	ON	ON	OFF	0FF	ON	ON	ON	
231	ON	ON	ON	OFF	0FF	ON	ON	ON	
232	0FF	0FF	0FF	ON	OFF	ON	ON	ON	
233	ON	OFF	OFF	ON	OFF	ON	ON	ON	
234	0FF	ON	0FF	ON	OFF	ON	ON	ON	
235	ON	ON	OFF	ON	0FF	ON	ON	ON	
236	0FF	0FF	ON	ON	OFF	ON	ON	ON	
237	ON	0FF	ON	ON	0FF	ON	ON	ON	
238	OFF	ON	ON	ON	0FF	ON	ON	ON	
239	ON	ON	ON	ON	0FF	ON	ON	ON	
240	OFF	0FF	0FF	0FF	ON	ON	ON	ON	
241	ON	0FF	0FF	OFF	ON	ON	ON	ON	
242	OFF	ON	0FF	0FF	ON	ON	ON	ON	
243	ON	ON	OFF	OFF	ON	ON	ON	ON	
244	OFF	OFF	ON	OFF	ON	ON	ON	ON	
245	ON	OFF	ON	OFF	ON	ON	ON	ON	
246	OFF	ON	ON	OFF	ON	ON	ON	ON	
247	ON	ON	ON	OFF	ON	ON	ON	ON	
248	0FF	0FF	0FF	ON	ON	ON	ON	ON	
249	ON	0FF	0FF	ON	ON	ON	ON	ON	
250	OFF	ON	0FF	ON	ON	ON	ON	ON	
251	ON	ON	OFF	ON	ON	ON	ON	ON	
252	OFF	OFF	ON	ON	ON	ON	ON	ON	
253	ON	OFF	ON	ON	ON	ON	ON	ON	
254	0FF	ON							

Specifications

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Construction Back Box

Aluminum Dome Drive Aluminum, thermoplastic

Lower Dome Clear polycarbonate, 0.09-inch

thick

Cage Thickness 0.12 x 0.30-inch cast stainless steel Cage Color Black for maximum discreetness

Through 1.5-inch NPT pendant Cable Entry (Back Box)

mount

Pan Movement 360° continuous pan rotation

Vertical Tilt +2° to -92°

Manual Pan/Tilt Speeds*

Pan 0.1°-80°/sec manual operation.

150°/sec turbo 0.1°- 40°/sec

Preset Speeds

Tilt

Pan 400°/sec Tilt 200°/sec Environment Indoor/outdoor

Operating Temperature

Pendant 32° to 140°F (0° to 60°C) absolute

> maximum: 32° to 122°F (0° to 50°C) sustained maximum (Assumes no wind chill factor)

Environmental Pendant

Maximum

140°F (60°C) absolute maximum: 122°F (50°C) sustained maximum Minimum -60°F (-51.1°C) absolute minimum; minimal icing at sustained minimum of -50°F (-45°C); prevents icing at sustained minimum of -40°F (-40°C): de-ices 0.1 inch (2.5 mm) within 3 hours after

power-up

Weight (approximate)

Back Box

Pendant 4.45 lb (2.02 kg) **Environmental Pendant** 4.75 lb (2.15 kg) Dome Drive 3.3 lb (1.48 kg)

Lower Dome

Pendant 1.83 lb (0.83 kg) Pendant with Cage 3.83 lb (1.74)

ELECTRICAL (Dome Drive Only)

18-32 VAC: 24 VAC nominal Input Voltage 22-27 VDC: 24 VDC nominal

Input Power

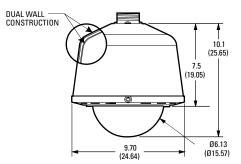
24 VAC 23 VA nominal (indoor, without heater)

73 VA nominal (outdoor, with heater)

24 VDC 0.7 A nominal (indoor, without heater) 3 A nominal (outdoor, with heater)

Fuse 1 25 A

Auxiliary Outputs 2 (Spectra IV SE only) 7 (Spectra IV SE only) Alarm Inputs



NOTE: VALUES IN PARENTHESES ARE CENTIMETERS; ALL OTHERS ARE INCHES.

Speed The materials used in the manufacture of this document and its components are compliant to the requirements of Directive 2002/95/EC.



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

^{*}For variable-speed operation an appropriate controller is required. With fixed-speed controllers, pan/tilt speed is 20°/sec. The CM6700/CM6800 controller with the KBD200A keyboard has programmable fixed speeds.

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FR/FT/FS Series fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Spectra® IV products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- · Three years on PMCL200/300/400 Series LCD monitors.
- . Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/ DF8 Series fixed dome products.
- Two years on Spectra III™, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit and WW5700 Series window wiper (excluding wiper blades)
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800)|5289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

- 1. Model and serial number
- 2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
- 3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department

Pelco

3500 Pelco Way

Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco

3500 Pelco Way

Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors

473 Eccles Avenue

South San Francisco, CA 94080 USA

Phone: 650-737-1700

Fax: 650-737-0933

REVISION HISTORY

Manual #DateCommentsC3420M8/06Original version.



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> USA & Canada Tel: 800/289-9100 Fax: 800/289-9150

International Tel: 1-559/292-1981 Fax: 1-559/348-1120

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