AVTECH

Diamond2425IP



Manufacturer	**AVTECH**
Type	**Moving head**
DMX modes	**5**
DMX footprint	**15, 27, 35, 55, 115 channels**
Beam angle	**25°**
Tilt range	**270°**
Heads / cells	**2**
Size (W × H × D)	**473 × 161 × 250 mm**
GDTF fixture type	**3416A2AD-B1AA-48E9-9639-4E…**

Controls

Frost · Extra LED colours · Colour temperature · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset · Built-in effect programmes

DMX modes

15CH	15 ch
27CH	27 ch
47CH	35 ch
87CH	55 ch
255CH	115 ch

15CH

15 channels

Ch	Function	Default	DMX values
1	Tilt	128	
2	Tilt Fine	0	Fine byte of Tilt
3	Frost1	0	
4	Dimmer	0	
5	Dimmer Fine	0	Fine byte of Dimmer
6	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open
7	Red	255	
8	Green	255	
9	Blue	255	
10	Color Add GY	0	
11	Red	255	
12	Green	255	
13	Blue	255	
14	White	0	
15	Pixel Mode	0	0–15 DMX Mode 16–238 Mixed Pixel Mode 239–255 ArtNet Mode

27CH

27 channels

Ch	Function	Default	DMX values
1	Tilt	128	
2	Tilt Fine	0	Fine byte of Tilt
3	Position MSpeed	0	

27CH (continued)

Ch	Function	Default	DMX values
4	Control1	0	0–4 No Function 5–9 Display Always On 10–14 Display 10S 15–19 Display 30S 20–24 Display 1Min 25–29 Screen Lock Off 30–34 Screen Lock On 35–39 Signal Hold 40–44 Blackout 45–59 No Function 60–64 Dim Standard 65–69 Dim Fast 70–74 Dim Slow 75–84 No Function 85–89 Dim Linear 90–94 Dim Square 95–99 Dim S-Shape 100–109 No Function 110–114 LED Freq 4000Hz 115–119 LED Freq 8000Hz 120–124 LED Freq 16000Hz 125–129 LED Freq 24000Hz 130–139 No Function 140–144 Fan Auto 145–149 Fan Silent 150–154 Fan Full 155–164 No Function 165–169 Red Drift Off 170–174 Red Drift On 175–179 Pixel Invert Off 180–184 Pixel Invert On 185–189 Tilt Invert Off 190–194 Tilt Invert On 195–199 Error Corr Off 200–204 Error Corr On 205–209 Reset All 210–255 No Function
5	Frost1	0	
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Dimmer	0	
9	Dimmer Fine	0	Fine byte of Dimmer
10	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open
11	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open

27CH (continued)

Ch	Function	Default	DMX values
12	Red	255	
13	Green	255	
14	Blue	255	
15	Color Add GY	0	
16	Red	255	
17	Green	255	
18	Blue	255	
19	White	0	
20	C TO	0	0–5 No Function 6–21 1800K 22–37 2000K 38–53 2500K 54–69 2700K 70–85 3000K 86–101 3200K 102–117 3500K 118–133 4000K 134–149 4500K 150–165 5000K 166–181 5600K 182–197 6000K 198–213 6500K 214–229 7200K 230–255 8000K
21	C TB	0	0–0 Color Temp Comp Off 1–127 Magenta to Off 128–128 Color Temp Comp Off 129–255 Off to Green

27CH (continued)

Ch	Function	Default	DMX values
22	Color Macro1	0	0–45 No Function 46–50 Cyan 51–55 Yellow 56–60 Magenta 61–65 Medium Yellow 66–70 Straw Tint 71–75 Surprise Peach 76–80 Fire 81–85 Medium Amber 86–90 Gold Amber 91–95 Dark Amber 96–100 Sunrise Red 101–105 Light Pink 106–110 Medium Pink 111–115 Pink Carnation 116–120 Light Lavender 121–125 Sky Blue 126–130 Just Blue 131–135 Dark Yellow Green 136–140 Spring Yellow 141–145 Light Amber 146–150 Straw Tint 2 151–155 Deep Amber 156–160 Orange 161–165 Light Rose 166–170 Middle Rose 171–175 Dark Pink 176–180 Magenta 2 181–185 Peacock Blue 186–190 Steel Blue 191–195 Light Blue 196–200 Dark Blue 201–205 Leaf Green 206–210 Dark Green 211–215 Mauve 216–220 Deep Golden Amber 221–225 Pale Lavender 226–230 Primary Green 231–235 Bright Blue 236–240 Apricot 241–245 Pale Gold 246–250 Deep Orange 251–255 Flame Red
23	Effect	0	0–9 No Function 10–34 Effect 1 35–59 Effect 2 60–84 Effect 3 85–109 Effect 4 110–134 Effect 5 135–159 Effect 6 160–184 Effect 7 185–209 Effect 8 210–234 Effect 9 235–244 Effect 10 245–255 Effect Loop 1-10
24	Effect Speed	0	0–127 Index 128–128 Stop 129–191 CW Rot Fast-Slow 192–192 Stop 193–255 CCW Rot Slow-Fast

27CH (continued)

Ch	Function	Default	DMX values
25	Effect	0	0–9 No Function 10–34 Effect 1 35–59 Effect 2 60–84 Effect 3 85–109 Effect 4 110–134 Effect 5 135–159 Effect 6 160–184 Effect 7 185–209 Effect 8 210–234 Effect 9 235–244 Effect 10 245–255 Effect Loop 1-10
26	Effect Speed	0	0–127 Index 128–128 Stop 129–191 CW Rot Fast-Slow 192–192 Stop 193–255 CCW Rot Slow-Fast
27	Pixel Mode	0	0–15 DMX Mode 16–238 Mixed Pixel Mode 239–255 ArtNet Mode

47CH

35 channels

Ch	Function	Default	DMX values
1	Tilt	128	
2	Tilt Fine	0	Fine byte of Tilt
3	Position MSpeed	0	

47CH (continued)

Ch	Function	Default	DMX values
4	Control1	0	0–4 No Function 5–9 Display Always On 10–14 Display 10S 15–19 Display 30S 20–24 Display 1Min 25–29 Screen Lock Off 30–34 Screen Lock On 35–39 Signal Hold 40–44 Blackout 45–59 No Function 60–64 Dim Standard 65–69 Dim Fast 70–74 Dim Slow 75–84 No Function 85–89 Dim Linear 90–94 Dim Square 95–99 Dim S-Shape 100–109 No Function 110–114 LED Freq 4000Hz 115–119 LED Freq 8000Hz 120–124 LED Freq 16000Hz 125–129 LED Freq 24000Hz 130–139 No Function 140–144 Fan Auto 145–149 Fan Silent 150–154 Fan Full 155–164 No Function 165–169 Red Drift Off 170–174 Red Drift On 175–179 Pixel Invert Off 180–184 Pixel Invert On 185–189 Tilt Invert Off 190–194 Tilt Invert On 195–199 Error Corr Off 200–204 Error Corr On 205–209 Reset All 210–255 No Function
5	Frost1	0	
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Dimmer	0	
9	Dimmer Fine	0	Fine byte of Dimmer
10	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open
11	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open

47CH (continued)

Ch	Function	Default	DMX values
12	C TO	0	0–5 No Function 6–21 1800K 22–37 2000K 38–53 2500K 54–69 2700K 70–85 3000K 86–101 3200K 102–117 3500K 118–133 4000K 134–149 4500K 150–165 5000K 166–181 5600K 182–197 6000K 198–213 6500K 214–229 7200K 230–255 8000K
13	C TB	0	0–0 Color Temp Comp Off 1–127 Magenta to Off 128–128 Color Temp Comp Off 129–255 Off to Green

47CH (continued)

Ch	Function	Default	DMX values
14	Color Macro1	0	0–45 No Function 46–50 Cyan 51–55 Yellow 56–60 Magenta 61–65 Medium Yellow 66–70 Straw Tint 71–75 Surprise Peach 76–80 Fire 81–85 Medium Amber 86–90 Gold Amber 91–95 Dark Amber 96–100 Sunrise Red 101–105 Light Pink 106–110 Medium Pink 111–115 Pink Carnation 116–120 Light Lavender 121–125 Sky Blue 126–130 Just Blue 131–135 Dark Yellow Green 136–140 Spring Yellow 141–145 Light Amber 146–150 Straw Tint 2 151–155 Deep Amber 156–160 Orange 161–165 Light Rose 166–170 Middle Rose 171–175 Dark Pink 176–180 Magenta 2 181–185 Peacock Blue 186–190 Steel Blue 191–195 Light Blue 196–200 Dark Blue 201–205 Leaf Green 206–210 Dark Green 211–215 Mauve 216–220 Deep Golden Amber 221–225 Pale Lavender 226–230 Primary Green 231–235 Bright Blue 236–240 Apricot 241–245 Pale Gold 246–250 Deep Orange 251–255 Flame Red
15	Effect	0	0–9 No Function 10–34 Effect 1 35–59 Effect 2 60–84 Effect 3 85–109 Effect 4 110–134 Effect 5 135–159 Effect 6 160–184 Effect 7 185–209 Effect 8 210–234 Effect 9 235–244 Effect 10 245–255 Effect Loop 1-10
16	Effect Speed	0	0–127 Index 128–128 Stop 129–191 CW Rot Fast-Slow 192–192 Stop 193–255 CCW Rot Slow-Fast

47CH (continued)

Ch	Function	Default	DMX values
17	Effect	0	0–9 No Function 10–34 Effect 1 35–59 Effect 2 60–84 Effect 3 85–109 Effect 4 110–134 Effect 5 135–159 Effect 6 160–184 Effect 7 185–209 Effect 8 210–234 Effect 9 235–244 Effect 10 245–255 Effect Loop 1-10
18	Effect Speed	0	0–127 Index 128–128 Stop 129–191 CW Rot Fast-Slow 192–192 Stop 193–255 CCW Rot Slow-Fast
19	Pixel Mode	0	0–15 DMX Mode 16–238 Mixed Pixel Mode 239–255 ArtNet Mode
20	Red	255	
21	Green	255	
22	Blue	255	
23	Color Add GY	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Red	255	
33	Green	255	
34	Blue	255	
35	White	0	

87CH

55 channels

Ch	Function	Default	DMX values
1	Tilt	128	
2	Tilt Fine	0	Fine byte of Tilt
3	Position MSpeed	0	

87CH (continued)

Ch	Function	Default	DMX values
4	Control1	0	0–4 No Function 5–9 Display Always On 10–14 Display 10S 15–19 Display 30S 20–24 Display 1Min 25–29 Screen Lock Off 30–34 Screen Lock On 35–39 Signal Hold 40–44 Blackout 45–59 No Function 60–64 Dim Standard 65–69 Dim Fast 70–74 Dim Slow 75–84 No Function 85–89 Dim Linear 90–94 Dim Square 95–99 Dim S-Shape 100–109 No Function 110–114 LED Freq 4000Hz 115–119 LED Freq 8000Hz 120–124 LED Freq 16000Hz 125–129 LED Freq 24000Hz 130–139 No Function 140–144 Fan Auto 145–149 Fan Silent 150–154 Fan Full 155–164 No Function 165–169 Red Drift Off 170–174 Red Drift On 175–179 Pixel Invert Off 180–184 Pixel Invert On 185–189 Tilt Invert Off 190–194 Tilt Invert On 195–199 Error Corr Off 200–204 Error Corr On 205–209 Reset All 210–255 No Function
5	Frost1	0	
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Dimmer	0	
9	Dimmer Fine	0	Fine byte of Dimmer
10	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open
11	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open

87CH (continued)

Ch	Function	Default	DMX values
12	C TO	0	0–5 No Function 6–21 1800K 22–37 2000K 38–53 2500K 54–69 2700K 70–85 3000K 86–101 3200K 102–117 3500K 118–133 4000K 134–149 4500K 150–165 5000K 166–181 5600K 182–197 6000K 198–213 6500K 214–229 7200K 230–255 8000K
13	C TB	0	0–0 Color Temp Comp Off 1–127 Magenta to Off 128–128 Color Temp Comp Off 129–255 Off to Green

87CH (continued)

Ch	Function	Default	DMX values
14	Color Macro1	0	0–45 No Function 46–50 Cyan 51–55 Yellow 56–60 Magenta 61–65 Medium Yellow 66–70 Straw Tint 71–75 Surprise Peach 76–80 Fire 81–85 Medium Amber 86–90 Gold Amber 91–95 Dark Amber 96–100 Sunrise Red 101–105 Light Pink 106–110 Medium Pink 111–115 Pink Carnation 116–120 Light Lavender 121–125 Sky Blue 126–130 Just Blue 131–135 Dark Yellow Green 136–140 Spring Yellow 141–145 Light Amber 146–150 Straw Tint 2 151–155 Deep Amber 156–160 Orange 161–165 Light Rose 166–170 Middle Rose 171–175 Dark Pink 176–180 Magenta 2 181–185 Peacock Blue 186–190 Steel Blue 191–195 Light Blue 196–200 Dark Blue 201–205 Leaf Green 206–210 Dark Green 211–215 Mauve 216–220 Deep Golden Amber 221–225 Pale Lavender 226–230 Primary Green 231–235 Bright Blue 236–240 Apricot 241–245 Pale Gold 246–250 Deep Orange 251–255 Flame Red
15	Effect	0	0–9 No Function 10–34 Effect 1 35–59 Effect 2 60–84 Effect 3 85–109 Effect 4 110–134 Effect 5 135–159 Effect 6 160–184 Effect 7 185–209 Effect 8 210–234 Effect 9 235–244 Effect 10 245–255 Effect Loop 1-10
16	Effect Speed	0	0–127 Index 128–128 Stop 129–191 CW Rot Fast-Slow 192–192 Stop 193–255 CCW Rot Slow-Fast

87CH (continued)

Ch	Function	Default	DMX values
17	Effect	0	0–9 No Function 10–34 Effect 1 35–59 Effect 2 60–84 Effect 3 85–109 Effect 4 110–134 Effect 5 135–159 Effect 6 160–184 Effect 7 185–209 Effect 8 210–234 Effect 9 235–244 Effect 10 245–255 Effect Loop 1-10
18	Effect Speed	0	0–127 Index 128–128 Stop 129–191 CW Rot Fast-Slow 192–192 Stop 193–255 CCW Rot Slow-Fast
19	Pixel Mode	0	0–15 DMX Mode 16–238 Mixed Pixel Mode 239–255 ArtNet Mode
20	Red	255	
21	Green	255	
22	Blue	255	
23	Color Add GY	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	

87CH (continued)

Ch	Function	Default	DMX values
50	Reserved 50	0	
51	Reserved 51	0	
52	Red	255	
53	Green	255	
54	Blue	255	
55	White	0	

255CH

115 channels

Ch	Function	Default	DMX values
1	Tilt	128	
2	Tilt Fine	0	Fine byte of Tilt
3	Position MSpeed	0	
4	Control1	0	
5	Frost1	0	
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Dimmer	0	
9	Dimmer Fine	0	Fine byte of Dimmer
10	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open
11	Shutter / Strobe	0	0–5 Opne 6–10 Close 11–35 Puls Random 36–60 Ramp up Random 61–85 Shutter1StrobePulse 3 · Ramp down Randon 17.2–25… 86–110 Random strobe 111–135 Strobe Break 136–250 Strobe 251–255 open
12	C TO	0	
13	C TB	0	
14	Color Macro1	0	
15	Pixel Mode	0	
16	Red	255	
17	Green	255	
18	Blue	255	
19	Color Add GY	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	

255CH (continued)

Ch	Function	Default	DMX values
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Reserved 35	0	
36	Reserved 36	0	
37	Reserved 37	0	
38	Reserved 38	0	
39	Reserved 39	0	
40	Reserved 40	0	
41	Reserved 41	0	
42	Reserved 42	0	
43	Reserved 43	0	
44	Reserved 44	0	
45	Reserved 45	0	
46	Reserved 46	0	
47	Reserved 47	0	
48	Reserved 48	0	
49	Reserved 49	0	
50	Reserved 50	0	
51	Reserved 51	0	
52	Reserved 52	0	
53	Reserved 53	0	
54	Reserved 54	0	
55	Reserved 55	0	
56	Reserved 56	0	
57	Reserved 57	0	
58	Reserved 58	0	
59	Reserved 59	0	
60	Reserved 60	0	
61	Reserved 61	0	
62	Reserved 62	0	
63	Reserved 63	0	
64	Reserved 64	0	
65	Reserved 65	0	
66	Reserved 66	0	
67	Reserved 67	0	
68	Reserved 68	0	
69	Reserved 69	0	

255CH (continued)

Ch	Function	Default	DMX values
70	Reserved 70	0	
71	Reserved 71	0	
72	Reserved 72	0	
73	Reserved 73	0	
74	Reserved 74	0	
75	Reserved 75	0	
76	Reserved 76	0	
77	Reserved 77	0	
78	Reserved 78	0	
79	Reserved 79	0	
80	Reserved 80	0	
81	Reserved 81	0	
82	Reserved 82	0	
83	Reserved 83	0	
84	Reserved 84	0	
85	Reserved 85	0	
86	Reserved 86	0	
87	Reserved 87	0	
88	Reserved 88	0	
89	Reserved 89	0	
90	Reserved 90	0	
91	Reserved 91	0	
92	Reserved 92	0	
93	Reserved 93	0	
94	Reserved 94	0	
95	Reserved 95	0	
96	Reserved 96	0	
97	Reserved 97	0	
98	Reserved 98	0	
99	Reserved 99	0	
100	Reserved 100	0	
101	Reserved 101	0	
102	Reserved 102	0	
103	Reserved 103	0	
104	Reserved 104	0	
105	Reserved 105	0	
106	Reserved 106	0	
107	Reserved 107	0	
108	Reserved 108	0	
109	Reserved 109	0	
110	Reserved 110	0	
111	Reserved 111	0	
112	Red	255	
113	Green	255	
114	Blue	255	

255CH (continued)

Ch	Function	Default	DMX values
115	White	0	