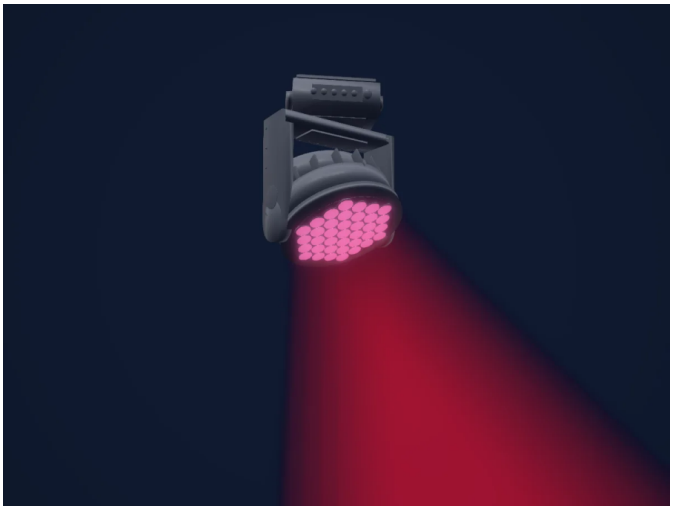
Prolights

DIAMOND37



Manufacturer	**Prolights**
Type	**Moving head**
DMX modes	**4**
DMX footprint	**19, 22, 41, 170 channels**
Beam angle	**6-66°**
Pan range	**630°**
Tilt range	**265°**
Heads / cells	**37**
Size (W × H × D)	**300 × 300 × 200 mm**
GDTF fixture type	**86C0F156-A41E-5C31-BF72-86…**

Controls

Zoom · Extra LED colours · RGB colour mixing · Colour wheel · Effect speed · Strobe · Dimmer · Pixel control · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset · Service functions · Built-in effect programmes

DMX modes

BAS (19 Ch)	19 ch
STAND (22 Ch)	22 ch
EXT-1 (41 Ch)	41 ch
EXT-2 (170 Ch)	170 ch

BAS (19 Ch)

19 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Tilt	128	
3	Position MSpeed	0	
4	Strobe Mode Shutter	0	0–15 Normal Shutter Functions 16–31 Pulse-effect Forward 32–47 Pulse-effect Reverse 48–63 Random strobe 64–255 TBD
5	Shutter / Strobe	224	0–31 Close 32–223 Strobe Rate (slow to fast) 1–25 Hz 224–255 Open
6	Dimmer	0	
7	Color Mix Mode	0	0–15 On Function 16–31 CTC Function 32–47 Forward Spin 48–63 Reverse Spin 64–79 Continuous 80–111 Color Bounce 112–255 TBD
8	Color Macro1	0	0–0 Not printed in the chart (On Function bank) 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–223 Red->down, Green=0, Blue=full, White=0 224–231 White 3200K 232–239 White 4200K 240–247 White 5600K 248–255 White 8000K
9	Color Macro2	0	0–0 Not printed in the chart (VIRTUAL COLOR 2 only on Col... 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–255 Red->down, Green=0, Blue=full, White=0
10	Red	0	
11	Green	0	
12	Blue	0	
13	White	0	
14	Zoom	0	

BAS (19 Ch) (continued)

Ch	Function	Default	DMX values
15	Effects1Adjust1	0	0–15 No Color 16–31 Red 32–47 Green 48–63 Blue 64–79 White 80–95 Yellow 96–111 Magenta 112–127 Cian 128–255 Full Color
16	Effects1Adjust2	0	0–15 No Color 16–31 Red 32–47 Green 48–63 Blue 64–79 White 80–95 Yellow 96–111 Magenta 112–127 Cian 128–255 Full Color
17	Effect	0	0–31 Static Pattern 32–39 Dinamic Pattern 1 40–47 Dinamic Pattern 2 48–55 Dinamic Pattern 3 56–63 Dinamic Pattern 4 64–71 Dinamic Pattern 5 72–79 Dinamic Pattern 6 80–87 Dinamic Pattern 7 88–95 Dinamic Pattern 8 96–103 Dinamic Pattern 9 104–111 Dinamic Pattern 10 112–119 Dinamic Pattern 11 120–127 Dinamic Pattern 12 128–135 Dinamic Pattern 13 136–143 Dinamic Pattern 14 144–151 Dinamic Pattern 15 152–159 Dinamic Pattern 16 160–167 Dinamic Pattern 17 168–175 Dinamic Pattern 18 176–183 Dinamic Pattern 19 184–191 Dinamic Pattern 20 192–199 Dinamic Pattern 21 200–207 Dinamic Pattern 22 208–215 Dinamic Pattern 23 216–223 Dinamic Pattern 24 224–231 Dinamic Pattern 25 232–239 Dinamic Pattern 26 240–247 Dinamic Pattern 27 248–255 Dinamic Pattern 28
18	Effect Speed	0	0–3 When pattern is in Static Pattern Mode: Scroll 4–127 Forward Slow to Fast 128–131 Stop 132–255 Reverse Slow to Fast
19	Fixture Global Reset	0	0–7 Normal 8–15 Reset All 16–23 Pan&Tilt Reset 24–47 TBD 48–55 Other Reset 56–63 Display Off 64–71 Display On 72–87 TBD 88–95 Hibernation 96–255 TBD

STAND (22 Ch)

22 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Blackout Mode	0	0–15 Normal 16–31 Movement with backout 32–255 TBD
7	Strobe Mode Shutter	0	0–15 Normal Shutter Functions 16–31 Pulse-effect Forward 32–47 Pulse-effect Reverse 48–63 Random strobe 64–255 TBD
8	Shutter / Strobe	224	0–31 Close 32–223 Strobe Rate (slow to fast) 1–25 Hz 224–255 Open
9	Dimmer	0	
10	Color Mix Mode	0	0–15 On Function 16–31 CTC Function 32–47 Forward Spin 48–63 Reverse Spin 64–79 Continuous 80–111 Color Bounce 112–255 TBD
11	Color Macro1	0	0–0 Not printed in the chart (On Function bank) 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–223 Red->down, Green=0, Blue=full, White=0 224–231 White 3200K 232–239 White 4200K 240–247 White 5600K 248–255 White 8000K
12	Color Macro2	0	0–0 Not printed in the chart (VIRTUAL COLOR 2 only on Col... 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–255 Red->down, Green=0, Blue=full, White=0
13	Red	0	
14	Green	0	
15	Blue	0	
16	White	0	
17	Zoom	0	

STAND (22 Ch) (continued)

Ch	Function	Default	DMX values
18	Effects1Adjust1	0	0–15 No Color 16–31 Red 32–47 Green 48–63 Blue 64–79 White 80–95 Yellow 96–111 Magenta 112–127 Cian 128–255 Full Color
19	Effects1Adjust2	0	0–15 No Color 16–31 Red 32–47 Green 48–63 Blue 64–79 White 80–95 Yellow 96–111 Magenta 112–127 Cian 128–255 Full Color
20	Effect	0	0–31 Static Pattern 32–39 Dinamic Pattern 1 40–47 Dinamic Pattern 2 48–55 Dinamic Pattern 3 56–63 Dinamic Pattern 4 64–71 Dinamic Pattern 5 72–79 Dinamic Pattern 6 80–87 Dinamic Pattern 7 88–95 Dinamic Pattern 8 96–103 Dinamic Pattern 9 104–111 Dinamic Pattern 10 112–119 Dinamic Pattern 11 120–127 Dinamic Pattern 12 128–135 Dinamic Pattern 13 136–143 Dinamic Pattern 14 144–151 Dinamic Pattern 15 152–159 Dinamic Pattern 16 160–167 Dinamic Pattern 17 168–175 Dinamic Pattern 18 176–183 Dinamic Pattern 19 184–191 Dinamic Pattern 20 192–199 Dinamic Pattern 21 200–207 Dinamic Pattern 22 208–215 Dinamic Pattern 23 216–223 Dinamic Pattern 24 224–231 Dinamic Pattern 25 232–239 Dinamic Pattern 26 240–247 Dinamic Pattern 27 248–255 Dinamic Pattern 28
21	Effect Speed	0	0–3 When pattern is in Static Pattern Mode: Scroll 4–127 Forward Slow to Fast 128–131 Stop 132–255 Reverse Slow to Fast
22	Fixture Global Reset	0	0–7 Normal 8–15 Reset All 16–23 Pan&Tilt Reset 24–47 TBD 48–55 Other Reset 56–63 Display Off 64–71 Display On 72–87 TBD 88–95 Hibernation 96–255 TBD

EXT-1 (41 Ch)

41 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Blackout Mode	0	0–15 Normal 16–31 Movement with backout 32–255 TBD
7	Strobe Mode Shutter	0	0–15 Normal Shutter Functions 16–31 Pulse-effect Forward 32–47 Pulse-effect Reverse 48–63 Random strobe 64–255 TBD
8	Shutter / Strobe	224	0–31 Close 32–223 Strobe Rate (slow to fast) 1–25 Hz 224–255 Open
9	Dimmer	0	
10	Color Mix Mode	0	0–15 On Function 16–31 CTC Function 32–47 Forward Spin 48–63 Reverse Spin 64–79 Continuous 80–111 Color Bounce 112–255 TBD
11	Color Macro1	0	0–0 Not printed in the chart (On Function bank) 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–223 Red->down, Green=0, Blue=full, White=0 224–231 White 3200K 232–239 White 4200K 240–247 White 5600K 248–255 White 8000K
12	Color Macro2	0	0–0 Not printed in the chart (VIRTUAL COLOR 2 only on Col... 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–255 Red->down, Green=0, Blue=full, White=0
13	Red	0	
14	Green	0	
15	Blue	0	
16	White	0	
17	Zoom	0	

EXT-1 (41 Ch) (continued)

Ch	Function	Default	DMX values
18	Effects1Adjust1	0	0–15 No Color 16–31 Red 32–47 Green 48–63 Blue 64–79 White 80–95 Yellow 96–111 Magenta 112–127 Cian 128–255 Full Color
19	Effects1Adjust2	0	0–15 No Color 16–31 Red 32–47 Green 48–63 Blue 64–79 White 80–95 Yellow 96–111 Magenta 112–127 Cian 128–255 Full Color
20	Effect	0	0–31 Static Pattern 32–39 Dinamic Pattern 1 40–47 Dinamic Pattern 2 48–55 Dinamic Pattern 3 56–63 Dinamic Pattern 4 64–71 Dinamic Pattern 5 72–79 Dinamic Pattern 6 80–87 Dinamic Pattern 7 88–95 Dinamic Pattern 8 96–103 Dinamic Pattern 9 104–111 Dinamic Pattern 10 112–119 Dinamic Pattern 11 120–127 Dinamic Pattern 12 128–135 Dinamic Pattern 13 136–143 Dinamic Pattern 14 144–151 Dinamic Pattern 15 152–159 Dinamic Pattern 16 160–167 Dinamic Pattern 17 168–175 Dinamic Pattern 18 176–183 Dinamic Pattern 19 184–191 Dinamic Pattern 20 192–199 Dinamic Pattern 21 200–207 Dinamic Pattern 22 208–215 Dinamic Pattern 23 216–223 Dinamic Pattern 24 224–231 Dinamic Pattern 25 232–239 Dinamic Pattern 26 240–247 Dinamic Pattern 27 248–255 Dinamic Pattern 28
21	Effect Speed	0	0–3 When pattern is in Static Pattern Mode: Scroll 4–127 Forward Slow to Fast 128–131 Stop 132–255 Reverse Slow to Fast
22	Effects1Adjust3	0	
23	Effects1Adjust4	0	
24	Effects1Adjust5	0	
25	Effects1Adjust6	0	
26	Effects1Adjust7	0	
27	Effects1Adjust8	0	
28	Effects1Adjust9	0	
29	Effects1Adjust10	0	

EXT-1 (41 Ch) (continued)

Ch	Function	Default	DMX values
30	Effects1Adjust11	0	
31	Effects1Adjust12	0	
32	Effects1Adjust13	0	
33	Effects1Adjust14	0	
34	Effects1Adjust15	0	
35	Effects1Adjust16	0	
36	Effects1Adjust17	0	
37	Effects1Adjust18	0	
38	Effects1Adjust19	0	
39	Effects1Adjust20	0	
40	Effects1Adjust21	0	
41	Fixture Global Reset	0	0–7 Normal 8–15 Reset All 16–23 Pan&Tilt Reset 24–47 TBD 48–55 Other Reset 56–63 Display Off 64–71 Display On 72–87 TBD 88–95 Hibernation 96–255 TBD

EXT-2 (170 Ch)

170 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	
6	Blackout Mode	0	
7	Strobe Mode Shutter	0	
8	Shutter / Strobe	224	0–31 Close 32–223 Strobe Rate (slow to fast) 1–25 Hz 224–255 Open
9	Dimmer	0	
10	Color Mix Mode	0	
11	Color Macro1	0	0–0 Not printed in the chart (On Function bank) 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–223 Red->down, Green=0, Blue=full, White=0 224–231 White 3200K 232–239 White 4200K 240–247 White 5600K 248–255 White 8000K

EXT-2 (170 Ch) (continued)

Ch	Function	Default	DMX values
12	Color Macro2	0	0–0 Not printed in the chart (VIRTUAL COLOR 2 only on Col... 1–1 Red 2–2 Green 3–3 Blue 4–4 White 5–46 Red=0, Green->up, Blue=full, White=0 47–88 Red=0, Green=full, Blue->down, White=0 89–130 Red->up, Green=full, Blue=0, White=0 131–172 Red=full, Green->down, Blue=0, White=0 173–214 Red=full, Green=0, Blue->up, White=0 215–255 Red->down, Green=0, Blue=full, White=0
13	Red	0	
14	Green	0	
15	Blue	0	
16	White	0	
17	Zoom	0	
18	Effects1Adjust1	0	
19	Effects1Adjust2	0	
20	Effect	0	0–31 Static Pattern 32–39 Dinamic Pattern 1 40–47 Dinamic Pattern 2 48–55 Dinamic Pattern 3 56–63 Dinamic Pattern 4 64–71 Dinamic Pattern 5 72–79 Dinamic Pattern 6 80–87 Dinamic Pattern 7 88–95 Dinamic Pattern 8 96–103 Dinamic Pattern 9 104–111 Dinamic Pattern 10 112–119 Dinamic Pattern 11 120–127 Dinamic Pattern 12 128–135 Dinamic Pattern 13 136–143 Dinamic Pattern 14 144–151 Dinamic Pattern 15 152–159 Dinamic Pattern 16 160–167 Dinamic Pattern 17 168–175 Dinamic Pattern 18 176–183 Dinamic Pattern 19 184–191 Dinamic Pattern 20 192–199 Dinamic Pattern 21 200–207 Dinamic Pattern 22 208–215 Dinamic Pattern 23 216–223 Dinamic Pattern 24 224–231 Dinamic Pattern 25 232–239 Dinamic Pattern 26 240–247 Dinamic Pattern 27 248–255 Dinamic Pattern 28
21	Effect Speed	0	
22	Red	0	
23	Green	0	
24	Blue	0	
25	White	0	
26	Red	0	
27	Green	0	
28	Blue	0	
29	White	0	

EXT-2 (170 Ch) (continued)

Ch	Function	Default	DMX values
30	Red	0	
31	Green	0	
32	Blue	0	
33	White	0	
34	Red	0	
35	Green	0	
36	Blue	0	
37	White	0	
38	Red	0	
39	Green	0	
40	Blue	0	
41	White	0	
42	Red	0	
43	Green	0	
44	Blue	0	
45	White	0	
46	Red	0	
47	Green	0	
48	Blue	0	
49	White	0	
50	Red	0	
51	Green	0	
52	Blue	0	
53	White	0	
54	Red	0	
55	Green	0	
56	Blue	0	
57	White	0	
58	Red	0	
59	Green	0	
60	Blue	0	
61	White	0	
62	Red	0	
63	Green	0	
64	Blue	0	
65	White	0	
66	Red	0	
67	Green	0	
68	Blue	0	
69	White	0	
70	Red	0	
71	Green	0	
72	Blue	0	
73	White	0	
74	Red	0	

EXT-2 (170 Ch) (continued)

Ch	Function	Default	DMX values
75	Green	0	
76	Blue	0	
77	White	0	
78	Red	0	
79	Green	0	
80	Blue	0	
81	White	0	
82	Red	0	
83	Green	0	
84	Blue	0	
85	White	0	
86	Red	0	
87	Green	0	
88	Blue	0	
89	White	0	
90	Red	0	
91	Green	0	
92	Blue	0	
93	White	0	
94	Red	0	
95	Green	0	
96	Blue	0	
97	White	0	
98	Red	0	
99	Green	0	
100	Blue	0	
101	White	0	
102	Red	0	
103	Green	0	
104	Blue	0	
105	White	0	
106	Red	0	
107	Green	0	
108	Blue	0	
109	White	0	
110	Red	0	
111	Green	0	
112	Blue	0	
113	White	0	
114	Red	0	
115	Green	0	
116	Blue	0	
117	White	0	
118	Red	0	
119	Green	0	

EXT-2 (170 Ch) (continued)

Ch	Function	Default	DMX values
120	Blue	0	
121	White	0	
122	Red	0	
123	Green	0	
124	Blue	0	
125	White	0	
126	Red	0	
127	Green	0	
128	Blue	0	
129	White	0	
130	Red	0	
131	Green	0	
132	Blue	0	
133	White	0	
134	Red	0	
135	Green	0	
136	Blue	0	
137	White	0	
138	Red	0	
139	Green	0	
140	Blue	0	
141	White	0	
142	Red	0	
143	Green	0	
144	Blue	0	
145	White	0	
146	Red	0	
147	Green	0	
148	Blue	0	
149	White	0	
150	Red	0	
151	Green	0	
152	Blue	0	
153	White	0	
154	Red	0	
155	Green	0	
156	Blue	0	
157	White	0	
158	Red	0	
159	Green	0	
160	Blue	0	
161	White	0	
162	Red	0	
163	Green	0	
164	Blue	0	

EXT-2 (170 Ch) (continued)

Ch	Function	Default	DMX values
165	White	0	
166	Red	0	
167	Green	0	
168	Blue	0	
169	White	0	
170	Fixture Global Reset	0	

Fixture model: gdtf-prolights-diamond37-2611121003
Original HitLight geometry, scripted locally by the HitLight fixture agent from the manufacturer's published datasheet, technical drawing and u...
Creator: HitLight