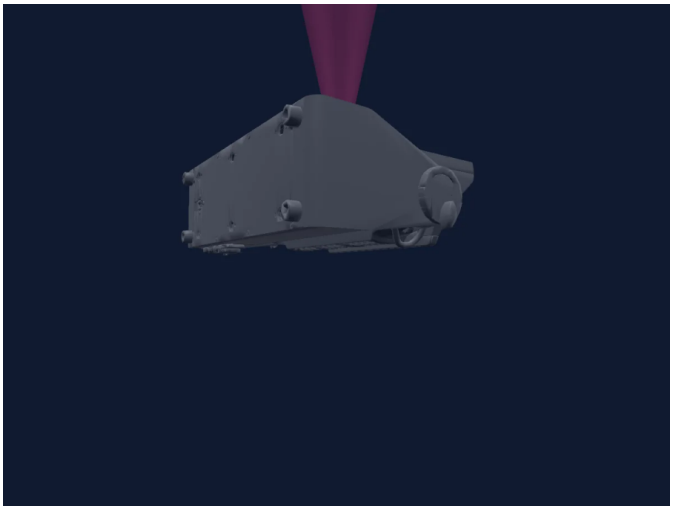
SGM Light

P-6 APS



Manufacturer	**SGM Light**
Type	**Blinder**
DMX modes	**14**
DMX footprint	**4, 6, 8, 9, 10, 18, 21, 24, 26, 27, 40, 66 channels**
Beam angle	**25°**
Heads / cells	**6**
Size (W × H × D)	**520 × 166 × 320 mm**
GDTF fixture type	**17E31981-CCEB-4082-A3F5-DD…**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control

Safety-relevant functions

Strobe

DMX modes

4 Channel RAW	4 ch
6 Channel CTC	6 ch
6 Channel RAW	6 ch
8 Channel RAW	8 ch
9 Channel Strobe	9 ch
10 Channel CTC	10 ch
6x RGB	18 ch
21 Channel CTC	21 ch
21 Channel Studio	21 ch
24 Channel Strobe	24 ch
26 Channel Strobe	26 ch
27 Channel RAW	27 ch
40 Channel CTC	40 ch
66 Channel Studio	66 ch

4 Channel RAW

4 channels

Ch	Function	Default	DMX values
1	Red	0	
2	Green	0	
3	Blue	0	
4	White	0	

6 Channel CTC

6 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	8	0–7 Closed 8–15 Open 16–150 Fastest Strobe 151–151 Slowest Strobe 152–174 Slowest Pulse Open 175–175 Fastest Pulse Open 176–198 Slowest Pulse Close 199–199 Fastest Pulse Close 200–243 Fastest Random 244–244 Slowest Random 245–255 Open
2	Dimmer	0	
3	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
4	Red	255	
5	Green	255	
6	Blue	255	

6 Channel RAW

6 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	8	0–7 Closed 8–15 Open 16–150 Fastest Strobe 151–151 Slowest Strobe 152–174 Slowest Pulse Open 175–175 Fastest Pulse Open 176–198 Slowest Pulse Close 199–199 Fastest Pulse Close 200–243 Fastest Random 244–244 Slowest Random 245–255 Open
2	Dimmer	0	
3	Red	255	
4	Green	255	
5	Blue	255	
6	White	255	

8 Channel RAW

8 channels

Ch	Function	Default	DMX values
1	Red	0	

8 Channel RAW (continued)

Ch	Function	Default	DMX values
2	Red Fine	0	Fine byte of Red
3	Green	0	
4	Green Fine	0	Fine byte of Green
5	Blue	0	
6	Blue Fine	0	Fine byte of Blue
7	White	0	
8	White Fine	0	Fine byte of White

9 Channel Strobe

9 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Strobe Duration	255	
3	Strobe Rate	255	
4	Shutter1Strobe Effect	0	0–5 No Effect 6–10 Flicker 11–15 Random Strobe Pixels 16–20 Random Strobe 21–25 Flicker Colors 26–30 Random Colors 31–35 Spikes Colors 36–40 Spikes Panel 41–45 Pre-Red 46–50 Pre-Green 51–55 Pre-Blue 56–60 RGB Flicker 61–65 Lightning 66–70 Circle RGB 71–75 Fire 76–80 Ice 81–85 Magenta-Red-Blue 86–90 Random Color Fade Pixel 91–95 Circle CCW 96–100 Circle CW 101–105 Effect Down 106–110 Effect Up 111–115 Effect Up Down 116–120 Effect Pix 1-6 121–250 Reserved 251–255 No Effect (2)

9 Channel Strobe (continued)

Ch	Function	Default	DMX values
5	Color Macro1	0	0–4 Open 5–9 Congo 10–14 Red 15–19 Green 20–24 Blue 25–29 Orange 30–34 Light Green 35–39 Pink 40–44 Light Blue 45–49 Purple 50–54 Neon Green 55–59 Magenta 60–64 Cyan 65–69 Yellow 70–74 CTC 75–79 Color Scroll CCW 80–84 Color Scroll CW 85–89 Random Color 90–180 Color Filter Emulation 181–199 Minus Green 200–200 Neutral 201–219 Plus Green 220–255 Reserved
6	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
7	Red	255	
8	Green	255	
9	Blue	255	

10 Channel CTC

10 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	8	0–7 Closed 8–15 Open 16–150 Fastest Strobe 151–151 Slowest Strobe 152–174 Slowest Pulse Open 175–175 Fastest Pulse Open 176–198 Slowest Pulse Close 199–199 Fastest Pulse Close 200–243 Fastest Random 244–244 Slowest Random 245–255 Open
2	Dimmer	0	
3	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
4	Reserved 4	0	
5	Red	255	
6	Red Fine	255	Fine byte of Red
7	Green	255	
8	Green Fine	255	Fine byte of Green
9	Blue	255	

10 Channel CTC (continued)

Ch	Function	Default	DMX values
10	Blue Fine	255	Fine byte of Blue

6x RGB

18 channels

Ch	Function	Default	DMX values
1	Red	0	
2	Green	0	
3	Blue	0	
4	Red	0	
5	Green	0	
6	Blue	0	
7	Red	0	
8	Green	0	
9	Blue	0	
10	Red	0	
11	Green	0	
12	Blue	0	
13	Red	0	
14	Green	0	
15	Blue	0	
16	Red	0	
17	Green	0	
18	Blue	0	

21 Channel CTC

21 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	8	0–7 Closed 8–15 Open 16–150 Fastest Strobe 151–151 Slowest Strobe 152–174 Slowest Pulse Open 175–175 Fastest Pulse Open 176–198 Slowest Pulse Close 199–199 Fastest Pulse Close 200–243 Fastest Random 244–244 Slowest Random 245–255 Open
2	Dimmer	0	
3	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
4	Red	255	
5	Green	255	
6	Blue	255	
7	Red	255	
8	Green	255	
9	Blue	255	

21 Channel CTC (continued)

Ch	Function	Default	DMX values
10	Red	255	
11	Green	255	
12	Blue	255	
13	Red	255	
14	Green	255	
15	Blue	255	
16	Red	255	
17	Green	255	
18	Blue	255	
19	Red	255	
20	Green	255	
21	Blue	255	

21 Channel Studio

21 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Strobe Duration	255	
4	Strobe Rate	255	
5	Shutter1Strobe Effect	0	0–5 No Effect 6–10 Flicker 11–15 Random Strobe Pixels 16–20 Random Strobe 21–25 Flicker Colors 26–30 Random Colors 31–35 Spikes Colors 36–40 Spikes Panel 41–45 Pre-Red 46–50 Pre-Green 51–55 Pre-Blue 56–60 RGB Flicker 61–65 Lightning 66–70 Circle RGB 71–75 Fire 76–80 Ice 81–85 Magenta-Red-Blue 86–90 Random Color Fade Pixel 91–95 Circle CCW 96–100 Circle CW 101–105 Effect Down 106–110 Effect Up 111–115 Effect Up Down 116–120 Effect Pix 1-6 121–250 Reserved 251–255 No Effect (2)

21 Channel Studio (continued)

Ch	Function	Default	DMX values
6	Color Macro1	0	0–4 Open 5–9 Congo 10–14 Red 15–19 Green 20–24 Blue 25–29 Orange 30–34 Light Green 35–39 Pink 40–44 Light Blue 45–49 Purple 50–54 Neon Green 55–59 Magenta 60–64 Cyan 65–69 Yellow 70–74 CTC 75–79 Color Scroll CCW 80–84 Color Scroll CW 85–89 Random Color 90–180 Color Filter Emulation 181–199 Minus Green 200–200 Neutral 201–219 Plus Green 220–255 Reserved
7	Color Mix Mode	0	0–4 CTC RGB 5–9 xy Control (CIE 1931) 10–14 CTC RGBW 15–19 HSI 20–24 CMY 25–255 Reserved
8	Color Control	0	0–4 Neutral 5–125 Minus Green 126–134 Neutral 135–255 Plus Green
9	L EDFrequency	0	0–4 Default 5–5 min 6–254 Custom Frequency 255–255 max
10	L EDFrequency Fine	0	Fine byte of L EDFrequency
11	Dimmer Curve	0	0–4 Default 5–9 Halogen 10–14 Linear 15–19 Gamma Corrected 20–255 Reserved
12	Fan Mode	0	0–4 Default 5–254 min 255–255 max
13	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
14	Red	255	
15	Red Fine	255	Fine byte of Red
16	Green	255	
17	Green Fine	255	Fine byte of Green
18	Blue	255	
19	Blue Fine	255	Fine byte of Blue
20	White	255	

21 Channel Studio (continued)

Ch	Function	Default	DMX values
21	White Fine	255	Fine byte of White

24 Channel Strobe

24 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Strobe Duration	255	
3	Strobe Rate	255	
4	Shutter1Strobe Effect	0	0–5 No Effect 6–10 Flicker 11–15 Random Strobe Pixels 16–20 Random Strobe 21–25 Flicker Colors 26–30 Random Colors 31–35 Spikes Colors 36–40 Spikes Panel 41–45 Pre-Red 46–50 Pre-Green 51–55 Pre-Blue 56–60 RGB Flicker 61–65 Lightning 66–70 Circle RGB 71–75 Fire 76–80 Ice 81–85 Magenta-Red-Blue 86–90 Random Color Fade Pixel 91–95 Circle CCW 96–100 Circle CW 101–105 Effect Down 106–110 Effect Up 111–115 Effect Up Down 116–120 Effect Pix 1-6 121–250 Reserved 251–255 No Effect (2)
5	Color Macro1	0	0–4 Open 5–9 Congo 10–14 Red 15–19 Green 20–24 Blue 25–29 Orange 30–34 Light Green 35–39 Pink 40–44 Light Blue 45–49 Purple 50–54 Neon Green 55–59 Magenta 60–64 Cyan 65–69 Yellow 70–74 CTC 75–79 Color Scroll CCW 80–84 Color Scroll CW 85–89 Random Color 90–180 Color Filter Emulation 181–199 Minus Green 200–200 Neutral 201–219 Plus Green 220–255 Reserved

24 Channel Strobe (continued)

Ch	Function	Default	DMX values
6	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
7	Red	255	
8	Green	255	
9	Blue	255	
10	Red	255	
11	Green	255	
12	Blue	255	
13	Red	255	
14	Green	255	
15	Blue	255	
16	Red	255	
17	Green	255	
18	Blue	255	
19	Red	255	
20	Green	255	
21	Blue	255	
22	Red	255	
23	Green	255	
24	Blue	255	

26 Channel Strobe

26 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Strobe Duration	255	
4	Strobe Rate	255	

26 Channel Strobe (continued)

Ch	Function	Default	DMX values
5	Shutter1Strobe Effect	0	0–5 No Effect 6–10 Flicker 11–15 Random Strobe Pixels 16–20 Random Strobe 21–25 Flicker Colors 26–30 Random Colors 31–35 Spikes Colors 36–40 Spikes Panel 41–45 Pre-Red 46–50 Pre-Green 51–55 Pre-Blue 56–60 RGB Flicker 61–65 Lightning 66–70 Circle RGB 71–75 Fire 76–80 Ice 81–85 Magenta-Red-Blue 86–90 Random Color Fade Pixel 91–95 Circle CCW 96–100 Circle CW 101–105 Effect Down 106–110 Effect Up 111–115 Effect Up Down 116–120 Effect Pix 1-6 121–250 Reserved 251–255 No Effect (2)
6	Color Macro1	0	0–4 Open 5–9 Congo 10–14 Red 15–19 Green 20–24 Blue 25–29 Orange 30–34 Light Green 35–39 Pink 40–44 Light Blue 45–49 Purple 50–54 Neon Green 55–59 Magenta 60–64 Cyan 65–69 Yellow 70–74 CTC 75–79 Color Scroll CCW 80–84 Color Scroll CW 85–89 Random Color 90–180 Color Filter Emulation 181–199 Minus Green 200–200 Neutral 201–219 Plus Green 220–255 Reserved
7	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
8	Fan Mode	0	0–4 Default 5–254 min 255–255 max
9	Red	255	
10	Green	255	
11	Blue	255	
12	Red	255	

26 Channel Strobe (continued)

Ch	Function	Default	DMX values
13	Green	255	
14	Blue	255	
15	Red	255	
16	Green	255	
17	Blue	255	
18	Red	255	
19	Green	255	
20	Blue	255	
21	Red	255	
22	Green	255	
23	Blue	255	
24	Red	255	
25	Green	255	
26	Blue	255	

27 Channel RAW

27 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	8	0–7 Closed 8–15 Open 16–150 Fastest Strobe 151–151 Slowest Strobe 152–174 Slowest Pulse Open 175–175 Fastest Pulse Open 176–198 Slowest Pulse Close 199–199 Fastest Pulse Close 200–243 Fastest Random 244–244 Slowest Random 245–255 Open
2	Dimmer	0	
3	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
4	Red	255	
5	Green	255	
6	Blue	255	
7	White	255	
8	Red	255	
9	Green	255	
10	Blue	255	
11	White	255	
12	Red	255	
13	Green	255	
14	Blue	255	
15	White	255	
16	Red	255	
17	Green	255	
18	Blue	255	

27 Channel RAW (continued)

Ch	Function	Default	DMX values
19	White	255	
20	Red	255	
21	Green	255	
22	Blue	255	
23	White	255	
24	Red	255	
25	Green	255	
26	Blue	255	
27	White	255	

40 Channel CTC

40 channels

Ch	Function	Default	DMX values
1	Shutter / Strobe	8	0–7 Closed 8–15 Open 16–150 Fastest Strobe 151–151 Slowest Strobe 152–174 Slowest Pulse Open 175–175 Fastest Pulse Open 176–198 Slowest Pulse Close 199–199 Fastest Pulse Close 200–243 Fastest Random 244–244 Slowest Random 245–255 Open
2	Dimmer	0	
3	Dimmer Fine	0	Fine byte of Dimmer
4	C TC	0	0–0 5600K (Default) 1–4 RAW 5–254 2000K 255–255 10000K
5	Red	0	
6	Red Fine	0	Fine byte of Red
7	Green	0	
8	Green Fine	0	Fine byte of Green
9	Blue	255	
10	Blue Fine	255	Fine byte of Blue
11	Red	0	
12	Red Fine	0	Fine byte of Red
13	Green	0	
14	Green Fine	0	Fine byte of Green
15	Blue	255	
16	Blue Fine	255	Fine byte of Blue
17	Red	0	
18	Red Fine	0	Fine byte of Red
19	Green	0	
20	Green Fine	0	Fine byte of Green
21	Blue	255	
22	Blue Fine	255	Fine byte of Blue
23	Red	0	

40 Channel CTC (continued)

Ch	Function	Default	DMX values
24	Red Fine	0	Fine byte of Red
25	Green	0	
26	Green Fine	0	Fine byte of Green
27	Blue	255	
28	Blue Fine	255	Fine byte of Blue
29	Red	0	
30	Red Fine	0	Fine byte of Red
31	Green	0	
32	Green Fine	0	Fine byte of Green
33	Blue	255	
34	Blue Fine	255	Fine byte of Blue
35	Red	0	
36	Red Fine	0	Fine byte of Red
37	Green	0	
38	Green Fine	0	Fine byte of Green
39	Blue	255	
40	Blue Fine	255	Fine byte of Blue

66 Channel Studio

66 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer Fine	0	Fine byte of Dimmer
3	Strobe Duration	255	
4	Strobe Rate	255	
5	Shutter1Strobe Effect	0	
6	Color Macro1	0	
7	Color Mix Mode	0	
8	Color Control	0	
9	L EDFrequency	0	
10	L EDFrequency Fine	0	Fine byte of L EDFrequency
11	Dimmer Curve	0	
12	Fan Mode	0	
13	Red	255	
14	Red Fine	255	Fine byte of Red
15	Green	255	
16	Green Fine	255	Fine byte of Green
17	Blue	255	
18	Blue Fine	255	Fine byte of Blue
19	White	255	
20	White Fine	255	Fine byte of White
21	C TC	0	
22	Red	255	
23	Red Fine	255	Fine byte of Red
24	Green	255	

66 Channel Studio (continued)

Ch	Function	Default	DMX values
25	Green Fine	255	Fine byte of Green
26	Blue	255	
27	Blue Fine	255	Fine byte of Blue
28	White	255	
29	White Fine	255	Fine byte of White
30	C TC	0	
31	Red	255	
32	Red Fine	255	Fine byte of Red
33	Green	255	
34	Green Fine	255	Fine byte of Green
35	Blue	255	
36	Blue Fine	255	Fine byte of Blue
37	White	255	
38	White Fine	255	Fine byte of White
39	C TC	0	
40	Red	255	
41	Red Fine	255	Fine byte of Red
42	Green	255	
43	Green Fine	255	Fine byte of Green
44	Blue	255	
45	Blue Fine	255	Fine byte of Blue
46	White	255	
47	White Fine	255	Fine byte of White
48	C TC	0	
49	Red	255	
50	Red Fine	255	Fine byte of Red
51	Green	255	
52	Green Fine	255	Fine byte of Green
53	Blue	255	
54	Blue Fine	255	Fine byte of Blue
55	White	255	
56	White Fine	255	Fine byte of White
57	C TC	0	
58	Red	255	
59	Red Fine	255	Fine byte of Red
60	Green	255	
61	Green Fine	255	Fine byte of Green
62	Blue	255	
63	Blue Fine	255	Fine byte of Blue
64	White	255	
65	White Fine	255	Fine byte of White
66	C TC	0	