Showtec

Xpression 2000W



Manufacturer	**Showtec**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**13, 21 channels**
Beam angle	**3.8-35°**
Pan range	**540°**
Tilt range	**360°**
Size (W × H × D)	**210 × 231 × 209 mm**
GDTF fixture type	**B21BF654-29A1-11F0-AFEE-42…**

Controls

Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Movement speed

Safety-relevant functions

Fixture reset · Strobe

DMX modes

Basic 13Ch	13 ch
Advanced 21Ch	21 ch

Basic 13Ch

13 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Tilt	127	
3	Tilt Rotate	0	0–5 No Function - Custom 6–130 S > F - Rotate CW 131–255 S > F - Rotate CCW
4	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
5	Shutter / Strobe	5	0–4 No Function - Custom 5–9 Open - Shutter Open 10–89 Synchronized Strobe S > F - Strobe 90–169 Pulse Strobe S > F - Strobe Pulse Random 170–250 Strobe Random S > F - Strobe Random 251–255 Open - Shutter Open
6	Color Wheel	0	0–1 No Function - Custom 2–4 Open - Color (wheel slot 1) 5–9 Red - Color (wheel slot 2) 10–14 Yellow - Color (wheel slot 3) 15–19 Green - Color (wheel slot 4) 20–24 Orange - Color (wheel slot 5) 25–29 Magenta - Color (wheel slot 6) 30–34 Cyan - Color (wheel slot 7) 35–39 Congo - Color (wheel slot 8) 40–44 Rose Red - Color (wheel slot 9) 45–49 Lime - Color (wheel slot 10) 50–54 CTO - Color (wheel slot 11) 55–59 CTB - Color (wheel slot 12) 60–64 UV - Color (wheel slot 13) 65–69 Purple - Color (wheel slot 14) 70–255 Reserved - Custom
7	Red	255	0–0 Min 1–254 Min > Max 255–255 Max
8	Green	255	0–0 Min 1–254 Min > Max 255–255 Max
9	Blue	255	0–0 Min 1–254 Min > Max 255–255 Max
10	White	255	0–0 Min 1–254 Min > Max 255–255 Max
11	C TC	0	0–4 No Function - Custom 5–255 2800K-6500K - CTC
12	Zoom	127	0–0 Wide 1–254 Wide > Narrow 255–255 Narrow

Basic 13Ch (continued)

Ch	Function	Default	DMX values
13	Control1	0	0–15 No Function - Custom 16–23 Pan Invert - Custom 24–31 Pan Normal - Custom 32–39 Tilt Invert - Custom 40–47 Tilt Normal - Custom 48–55 No Function - Custom 56–63 Dimmer Curve Linear - Custom 64–71 Dimmer Curve Square - Custom 72–79 Dimmer Curve Inv Square - Custom 80–87 Dimmer Curve S-Curve - Custom 88–95 No Function - Custom 96–103 PWM 1 2KHz - Custom 104–111 PWM 2KHz - Custom 112–119 PWM 4KHz - Custom 120–127 PWM 6KHz - Custom 128–135 PWM 15KHz - Custom 136–143 No Function - Custom 144–151 Color Mixing RGBW - Custom 152–159 Color Mixing CMY - Custom 160–167 No Function - Custom 168–175 Tilt Range 280Deg - Custom 176–183 Tilt Range 360Deg - Custom 184–191 No Function - Custom 192–199 Blackout During P/T Movement On - Blackout 200–207 Blackout During P/T Movement Off - Blackout 208–215 Blackout During Zoom Movement On - Blackout 216–223 Blackout During Zoom Movement Off - Blackout 224–231 No Function - Custom 232–239 P/T Reset - Reset 240–247 Zoom Reset - Reset 248–255 Reset All - Reset

Advanced 21Ch

21 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	255	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	255	Fine byte of Tilt
5	Tilt Rotate	0	0–5 No Function - Custom 6–130 S > F - Rotate CW 131–255 S > F - Rotate CCW
6	Position MSpeed	0	0–0 Min 1–254 Min > Max 255–255 Max
7	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
8	Shutter / Strobe	5	0–4 No Function - Custom 5–9 Open - Shutter Open 10–89 Synchronized Strobe S > F - Strobe 90–169 Pulse Strobe S > F - Strobe Pulse Random 170–250 Strobe Random S > F - Strobe Random 251–255 Open - Shutter Open

Advanced 21Ch (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–1 No Function - Custom 2–4 Open - Color (wheel slot 1) 5–9 Red - Color (wheel slot 2) 10–14 Yellow - Color (wheel slot 3) 15–19 Green - Color (wheel slot 4) 20–24 Orange - Color (wheel slot 5) 25–29 Magenta - Color (wheel slot 6) 30–34 Cyan - Color (wheel slot 7) 35–39 Congo - Color (wheel slot 8) 40–44 Rose Red - Color (wheel slot 9) 45–49 Lime - Color (wheel slot 10) 50–54 CTO - Color (wheel slot 11) 55–59 CTB - Color (wheel slot 12) 60–64 UV - Color (wheel slot 13) 65–69 Purple - Color (wheel slot 14) 70–255 Reserved - Custom
10	Red	255	
11	Red Fine	255	Fine byte of Red
12	Green	255	
13	Green Fine	255	Fine byte of Green
14	Blue	255	
15	Blue Fine	255	Fine byte of Blue
16	White	255	
17	White Fine	255	Fine byte of White
18	C TC	0	0–4 No Function - Custom 5–255 2800K-6500K - CTC
19	Zoom	127	0–254 Wide 255–255 Narrow
20	Zoom Fine	255	Fine byte of Zoom

Advanced 21Ch (continued)

Ch	Function	Default	DMX values
21	Control1	0	0–15 No Function - Custom 16–23 Pan Invert - Custom 24–31 Pan Normal - Custom 32–39 Tilt Invert - Custom 40–47 Tilt Normal - Custom 48–55 No Function - Custom 56–63 Dimmer Curve Linear - Custom 64–71 Dimmer Curve Square - Custom 72–79 Dimmer Curve Inv Square - Custom 80–87 Dimmer Curve S-Curve - Custom 88–95 No Function - Custom 96–103 PWM 1 2KHz - Custom 104–111 PWM 2KHz - Custom 112–119 PWM 4KHz - Custom 120–127 PWM 6KHz - Custom 128–135 PWM 15KHz - Custom 136–143 No Function - Custom 144–151 Color Mixing RGBW - Custom 152–159 Color Mixing CMY - Custom 160–167 No Function - Custom 168–175 Tilt Range 280Deg - Custom 176–183 Tilt Range 360Deg - Custom 184–191 No Function - Custom 192–199 Blackout During P/T Movement On - Blackout 200–207 Blackout During P/T Movement Off - Blackout 208–215 Blackout During Zoom Movement On - Blackout 216–223 Blackout During Zoom Movement Off - Blackout 224–231 No Function - Custom 232–239 P/T Reset - Reset 240–247 Zoom Reset - Reset 248–255 Reset All - Reset