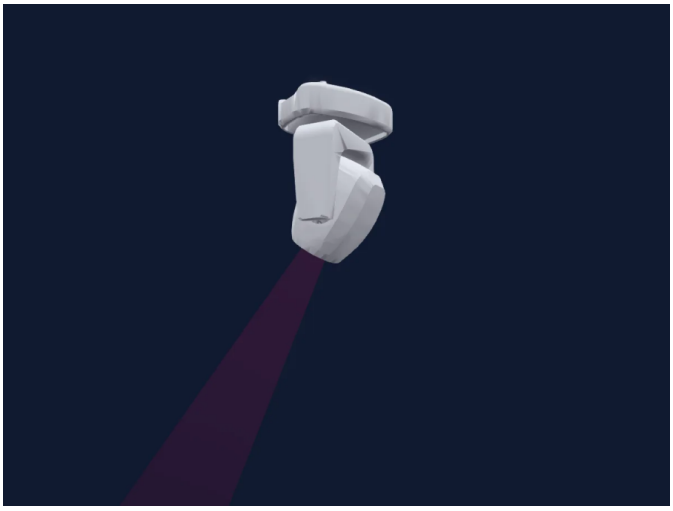
Showtec

Xpression 2000S



Manufacturer	**Showtec**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**14, 18 channels**
Beam angle	**15.3°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**201 × 258 × 181 mm**
GDTF fixture type	**2F822A94-293B-11F0-AFEE-420…**

Controls

Focus · Frost · Prism · Prism rotation · Colour wheel · Strobe · Dimmer · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Strobe

DMX modes

Basic 14Ch	14 ch
Advanced 18Ch	18 ch

Basic 14Ch

14 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Tilt	127	
3	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max
4	Shutter / Strobe	5	0–4 No Function - Custom 5–9 Open - Shutter Open 10–89 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
5	Color Wheel	0	0–16 Open - Color (wheel slot 1) 17–29 Red - Color (wheel slot 2) 30–42 Yellow - Color (wheel slot 3) 43–55 Green - Color (wheel slot 4) 56–68 Orange - Color (wheel slot 5) 69–81 Magenta - Color (wheel slot 6) 82–94 Cyan - Color (wheel slot 7) 95–107 Congo - Color (wheel slot 8) 108–120 Open/Red - Color (wheel slot 9) 121–133 Red/Yellow - Color (wheel slot 10) 134–146 Yellow/Green - Color (wheel slot 11) 147–159 Green/Orange - Color (wheel slot 12) 160–172 Orange/Magenta - Color (wheel slot 13) 173–185 Magenta/Cyan - Color (wheel slot 14) 186–198 Cyan/Congo - Color (wheel slot 15) 199–211 Congo/Open - Color (wheel slot 16) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW
6	Gobo	0	0–14 Open - Gobo Open (wheel slot 1) 15–29 Gobo 1 - Gobo (wheel slot 2) 30–44 Gobo 2 - Gobo (wheel slot 3) 45–59 Gobo 3 - Gobo (wheel slot 4) 60–74 Gobo 4 - Gobo (wheel slot 5) 75–89 Gobo 5 - Gobo (wheel slot 6) 90–104 Gobo 6 - Gobo (wheel slot 7) 105–119 Gobo 1 Shake - Gobo Shake (wheel slot 2) 120–134 Gobo 2 Shake - Gobo Shake (wheel slot 3) 135–149 Gobo 3 Shake - Gobo Shake (wheel slot 4) 150–164 Gobo 4 Shake - Gobo Shake (wheel slot 5) 165–179 Gobo 5 Shake - Gobo Shake (wheel slot 6) 180–194 Gobo 6 Shake - Gobo Shake (wheel slot 7) 195–207 No Function - Custom 208–211 Open - Gobo Open (wheel slot 1) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW
7	Gobo Rotation	0	0–49 Indexing - Indexing 50–125 F > S - Rotate CW 126–129 Stop - Stop Loop 130–205 S > F - Rotate CCW 206–255 Gobo Bouncing S > F - Gobo Shake
8	Prism	0	0–5 Close 6–255 12F Circular (wheel slot 1)
9	Prism Rotation	0	0–49 Indexing - Indexing 50–125 F > S - Rotate CW 126–129 Stop - Stop Loop 130–205 S > F - Rotate CCW 206–255 Prism Bouncing S > F - Rotate Random

Basic 14Ch (continued)

Ch	Function	Default	DMX values
10	Prism	0	0–5 Close 6–255 10F Linear (wheel slot 1)
11	Prism Rotation	0	0–49 Indexing - Indexing 50–125 F > S - Rotate CW 126–129 Stop - Stop Loop 130–205 S > F - Rotate CCW 206–255 Prism Bouncing S > F - Rotate Random
12	Focus	127	0–0 Min 1–254 Min > Max 255–255 Max
13	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max
14	Control1	0	0–21 No Function - Custom 22–30 Pan Invert - Custom 31–39 Pan Normal - Custom 40–48 Tilt Invert - Custom 49–57 Tilt Normal - Custom 58–66 No Function - Custom 67–75 Dimmer Curve Linear - Custom 76–84 Dimmer Curve Square - Custom 85–93 Dimmer Curve Inv Square - Custom 94–102 Dimmer Curve S-Curve - Custom 103–111 No Function - Custom 112–120 PWM 1 2Khz - Custom 121–129 PWM 2Khz - Custom 130–138 PWM 4Khz - Custom 139–147 PWM 6Khz - Custom 148–156 PWM 15Khz - Custom 157–165 No Function - Custom 166–174 Blackout During P/T Movement On - Blackout 175–183 Blackout During P/T Movement Off - Blackout 184–192 No Function - Custom 193–201 P/T Reset - Reset 202–210 Color Reset - Reset 211–228 Gobo Reset - Reset 229–246 Focus Reset - Reset 247–255 Reset All - Reset

Advanced 18Ch

18 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	Position MSpeed	0	0–0 Min 1–254 Min > Max 255–255 Max
6	Dimmer	0	0–0 Min 1–254 Min > Max 255–255 Max

Advanced 18Ch (continued)

Ch	Function	Default	DMX values
7	Shutter / Strobe	5	0–4 No Function - Custom 5–9 Open - Shutter Open 10–89 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
8	Color Wheel	0	0–16 Open - Color (wheel slot 1) 17–29 Red - Color (wheel slot 2) 30–42 Yellow - Color (wheel slot 3) 43–55 Green - Color (wheel slot 4) 56–68 Orange - Color (wheel slot 5) 69–81 Magenta - Color (wheel slot 6) 82–94 Cyan - Color (wheel slot 7) 95–107 Congo - Color (wheel slot 8) 108–120 Open/Red - Color (wheel slot 9) 121–133 Red/Yellow - Color (wheel slot 10) 134–146 Yellow/Green - Color (wheel slot 11) 147–159 Green/Orange - Color (wheel slot 12) 160–172 Orange/Magenta - Color (wheel slot 13) 173–185 Magenta/Cyan - Color (wheel slot 14) 186–198 Cyan/Congo - Color (wheel slot 15) 199–211 Congo/Open - Color (wheel slot 16) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW
9	Gobo	0	0–14 Open - Gobo Open (wheel slot 1) 15–29 Gobo 1 - Gobo (wheel slot 2) 30–44 Gobo 2 - Gobo (wheel slot 3) 45–59 Gobo 3 - Gobo (wheel slot 4) 60–74 Gobo 4 - Gobo (wheel slot 5) 75–89 Gobo 5 - Gobo (wheel slot 6) 90–104 Gobo 6 - Gobo (wheel slot 7) 105–119 Gobo 1 Shake - Gobo Shake (wheel slot 2) 120–134 Gobo 2 Shake - Gobo Shake (wheel slot 3) 135–149 Gobo 3 Shake - Gobo Shake (wheel slot 4) 150–164 Gobo 4 Shake - Gobo Shake (wheel slot 5) 165–179 Gobo 5 Shake - Gobo Shake (wheel slot 6) 180–194 Gobo 6 Shake - Gobo Shake (wheel slot 7) 195–207 No Function - Custom 208–211 Open - Gobo Open (wheel slot 1) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW
10	Gobo Rotation	0	0–49 Indexing - Indexing 50–125 F > S - Rotate CW 126–129 Stop - Stop Loop 130–205 S > F - Rotate CCW 206–255 Gobo Bouncing S > F - Gobo Shake
11	Prism	0	0–5 Close 6–255 12F Circular (wheel slot 1)
12	Prism Rotation	0	0–49 Indexing - Indexing 50–125 F > S - Rotate CW 126–129 Stop - Stop Loop 130–205 S > F - Rotate CCW 206–255 Prism Bouncing S > F - Rotate Random
13	Prism	0	0–5 Close 6–255 10F Linear (wheel slot 1)

Advanced 18Ch (continued)

Ch	Function	Default	DMX values
14	Prism Rotation	0	0–49 Indexing - Indexing 50–125 F > S - Rotate CW 126–129 Stop - Stop Loop 130–205 S > F - Rotate CCW 206–255 Prism Bouncing S > F - Rotate Random
15	Focus	127	
16	Focus Fine	255	Fine byte of Focus
17	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max
18	Control1	0	0–21 No Function - Custom 22–30 Pan Invert - Custom 31–39 Pan Normal - Custom 40–48 Tilt Invert - Custom 49–57 Tilt Normal - Custom 58–66 No Function - Custom 67–75 Dimmer Curve Linear - Custom 76–84 Dimmer Curve Square - Custom 85–93 Dimmer Curve Inv Square - Custom 94–102 Dimmer Curve S-Curve - Custom 103–111 No Function - Custom 112–120 PWM 1 2Khz - Custom 121–129 PWM 2Khz - Custom 130–138 PWM 4Khz - Custom 139–147 PWM 6Khz - Custom 148–156 PWM 15Khz - Custom 157–165 No Function - Custom 166–174 Blackout During P/T Movement On - Blackout 175–183 Blackout During P/T Movement Off - Blackout 184–192 No Function - Custom 193–201 P/T Reset - Reset 202–210 Color Reset - Reset 211–228 Gobo Reset - Reset 229–246 Focus Reset - Reset 247–255 Reset All - Reset