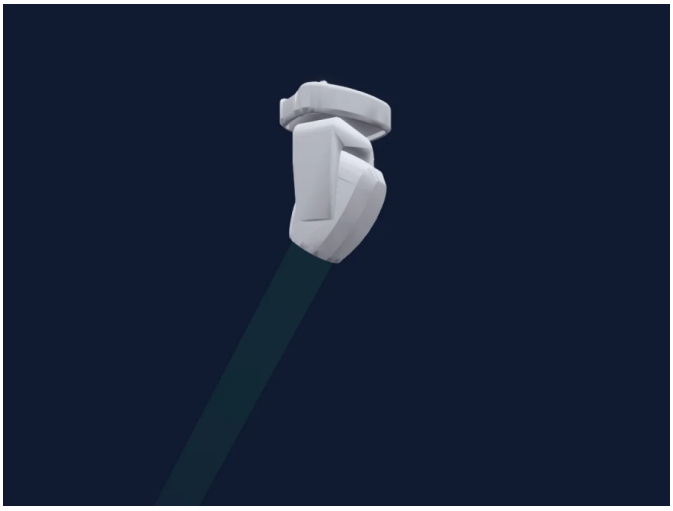
Showtec

Xpression 2000B



Manufacturer	**Showtec**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**14, 18 channels**
Beam angle	**1.8°**
Pan range	**540°**
Tilt range	**360°**
Size (W × H × D)	**197 × 276 × 197 mm**
GDTF fixture type	**770B1581-2973-11F0-AFEE-420…**

Controls

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

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	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 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	0–8 Open - Color (wheel slot 1) 9–15 Red - Color (wheel slot 2) 16–22 Yellow - Color (wheel slot 3) 23–29 Green - Color (wheel slot 4) 30–36 Orange - Color (wheel slot 5) 37–43 Magenta - Color (wheel slot 6) 44–50 Cyan - Color (wheel slot 7) 51–57 Blue - Color (wheel slot 8) 58–64 Rose Red - Color (wheel slot 9) 65–71 Lime - Color (wheel slot 10) 72–78 CTO - Color (wheel slot 11) 79–85 CTB - Color (wheel slot 12) 86–92 BGOM - Color (wheel slot 13) 93–99 Purple - Color (wheel slot 14) 100–106 Congo - Color (wheel slot 15) 107–113 Open/Red - Color (wheel slot 16) 114–120 Red/Yellow - Color (wheel slot 17) 121–127 Yellow/Green - Color (wheel slot 18) 128–134 Green/Orange - Color (wheel slot 19) 135–141 Orange/Magenta - Color (wheel slot 20) 142–148 Magenta/Cyan - Color (wheel slot 21) 149–155 Cyan/Blue - Color (wheel slot 22) 156–162 Blue/Rose Red - Color (wheel slot 23) 163–169 Rose Red/Lime - Color (wheel slot 24) 170–176 Lime/CTO - Color (wheel slot 25) 177–183 CTO/CTB - Color (wheel slot 26) 184–190 CTB/BGOM - Color (wheel slot 27) 191–197 BGOM/Purple - Color (wheel slot 28) 198–204 Purple/Congo - Color (wheel slot 29) 205–211 Congo/Open - Color (wheel slot 30) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW

Basic 14Ch (continued)

Ch	Function	Default	DMX values
7	Gobo	0	0–6 Open - Gobo Open (wheel slot 1) 7–13 Gobo 1 - Gobo (wheel slot 2) 14–20 Gobo 2 - Gobo (wheel slot 3) 21–27 Gobo 3 - Gobo (wheel slot 4) 28–34 Gobo 4 - Gobo (wheel slot 5) 35–41 Gobo 5 - Gobo (wheel slot 6) 42–48 Gobo 6 - Gobo (wheel slot 7) 49–55 Gobo 7 - Gobo (wheel slot 8) 56–62 Gobo 8 - Gobo (wheel slot 9) 63–69 Gobo 9 - Gobo (wheel slot 10) 70–76 Gobo 10 - Gobo (wheel slot 11) 77–83 Gobo 11 - Gobo (wheel slot 12) 84–90 Gobo 12 - Gobo (wheel slot 13) 91–97 Gobo 13 - Gobo (wheel slot 14) 98–105 Gobo 1 Shake - Gobo Shake (wheel slot 2) 106–113 Gobo 2 Shake - Gobo Shake (wheel slot 3) 114–121 Gobo 3 Shake - Gobo Shake (wheel slot 4) 122–129 Gobo 4 Shake - Gobo Shake (wheel slot 5) 130–137 Gobo 5 Shake - Gobo Shake (wheel slot 6) 138–145 Gobo 6 Shake - Gobo Shake (wheel slot 7) 146–153 Gobo 7 Shake - Gobo Shake (wheel slot 8) 154–161 Gobo 8 Shake - Gobo Shake (wheel slot 9) 162–169 Gobo 9 Shake - Gobo Shake (wheel slot 10) 170–177 Gobo 10 Shake - Gobo Shake (wheel slot 11) 178–185 Gobo 11 Shake - Gobo Shake (wheel slot 12) 186–193 Gobo 12 Shake - Gobo Shake (wheel slot 13) 194–201 Gobo 13 Shake - Gobo Shake (wheel slot 14) 202–211 Open - Gobo Open (wheel slot 1) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW
8	Prism	0	0–5 Close 6–255 8F 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
10	Prism	0	0–5 Close 6–255 48F Circular (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 Far 1–254 Far > Near 255–255 Near
13	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max

Basic 14Ch (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–23 No Function - Custom 24–31 Pan Invert - Custom 32–39 Pan Normal - Custom 40–47 Tilt Invert - Custom 48–55 Tilt Normal - Custom 56–63 No Function - Custom 64–71 Dimmer Curve Linear - Custom 72–79 Dimmer Curve Square - Custom 80–87 Dimmer Curve Inv Square - Custom 88–95 Dimmer Curve S-Curve - Custom 96–103 No Function - Custom 104–111 PWM 1 2Khz - Custom 112–119 PWM 2Khz - Custom 120–127 PWM 4Khz - Custom 128–135 PWM 6Khz - Custom 136–143 PWM 15Khz - Custom 144–151 No Function - Custom 152–159 Tilt Range 280Deg - Custom 160–167 Tilt Range 360Deg - Custom 168–175 No Function - Custom 176–183 Blackout During P/T Movement On - Blackout 184–191 Blackout During P/T Movement Off - Blackout 192–199 No Function - Custom 200–207 P/T Reset - Reset 208–215 Color Reset - Reset 216–231 Gobo Reset - Reset 232–239 Focus Reset - Reset 240–247 Frost Reset - Reset 248–255 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	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 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 18Ch (continued)

Ch	Function	Default	DMX values
9	Color Wheel	0	0–8 Open - Color (wheel slot 1) 9–15 Red - Color (wheel slot 2) 16–22 Yellow - Color (wheel slot 3) 23–29 Green - Color (wheel slot 4) 30–36 Orange - Color (wheel slot 5) 37–43 Magenta - Color (wheel slot 6) 44–50 Cyan - Color (wheel slot 7) 51–57 Blue - Color (wheel slot 8) 58–64 Rose Red - Color (wheel slot 9) 65–71 Lime - Color (wheel slot 10) 72–78 CTO - Color (wheel slot 11) 79–85 CTB - Color (wheel slot 12) 86–92 BGOM - Color (wheel slot 13) 93–99 Purple - Color (wheel slot 14) 100–106 Congo - Color (wheel slot 15) 107–113 Open/Red - Color (wheel slot 16) 114–120 Red/Yellow - Color (wheel slot 17) 121–127 Yellow/Green - Color (wheel slot 18) 128–134 Green/Orange - Color (wheel slot 19) 135–141 Orange/Magenta - Color (wheel slot 20) 142–148 Magenta/Cyan - Color (wheel slot 21) 149–155 Cyan/Blue - Color (wheel slot 22) 156–162 Blue/Rose Red - Color (wheel slot 23) 163–169 Rose Red/Lime - Color (wheel slot 24) 170–176 Lime/CTO - Color (wheel slot 25) 177–183 CTO/CTB - Color (wheel slot 26) 184–190 CTB/BGOM - Color (wheel slot 27) 191–197 BGOM/Purple - Color (wheel slot 28) 198–204 Purple/Congo - Color (wheel slot 29) 205–211 Congo/Open - Color (wheel slot 30) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW

Advanced 18Ch (continued)

Ch	Function	Default	DMX values
10	Gobo	0	0–6 Open - Gobo Open (wheel slot 1) 7–13 Gobo 1 - Gobo (wheel slot 2) 14–20 Gobo 2 - Gobo (wheel slot 3) 21–27 Gobo 3 - Gobo (wheel slot 4) 28–34 Gobo 4 - Gobo (wheel slot 5) 35–41 Gobo 5 - Gobo (wheel slot 6) 42–48 Gobo 6 - Gobo (wheel slot 7) 49–55 Gobo 7 - Gobo (wheel slot 8) 56–62 Gobo 8 - Gobo (wheel slot 9) 63–69 Gobo 9 - Gobo (wheel slot 10) 70–76 Gobo 10 - Gobo (wheel slot 11) 77–83 Gobo 11 - Gobo (wheel slot 12) 84–90 Gobo 12 - Gobo (wheel slot 13) 91–97 Gobo 13 - Gobo (wheel slot 14) 98–105 Gobo 1 Shake - Gobo Shake (wheel slot 2) 106–113 Gobo 2 Shake - Gobo Shake (wheel slot 3) 114–121 Gobo 3 Shake - Gobo Shake (wheel slot 4) 122–129 Gobo 4 Shake - Gobo Shake (wheel slot 5) 130–137 Gobo 5 Shake - Gobo Shake (wheel slot 6) 138–145 Gobo 6 Shake - Gobo Shake (wheel slot 7) 146–153 Gobo 7 Shake - Gobo Shake (wheel slot 8) 154–161 Gobo 8 Shake - Gobo Shake (wheel slot 9) 162–169 Gobo 9 Shake - Gobo Shake (wheel slot 10) 170–177 Gobo 10 Shake - Gobo Shake (wheel slot 11) 178–185 Gobo 11 Shake - Gobo Shake (wheel slot 12) 186–193 Gobo 12 Shake - Gobo Shake (wheel slot 13) 194–201 Gobo 13 Shake - Gobo Shake (wheel slot 14) 202–211 Open - Gobo Open (wheel slot 1) 212–231 F > S - Rotate CW 232–235 Stop - Stop Loop 236–255 S > F - Rotate CCW
11	Prism	0	0–5 Close 6–255 8F 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 48F Circular (wheel slot 1)
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	0–254 Far 255–255 Near
16	Focus Fine	255	Fine byte of Focus
17	Frost1	0	0–0 Min 1–254 Min > Max 255–255 Max

Advanced 18Ch (continued)

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