MARK

Beam WS 280



Manufacturer	**MARK**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**23, 24 channels**
Beam angle	**25°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**280 × 376 × 202 mm**
GDTF fixture type	**5DB83E4E-7D2C-4434-8FFA-74…**

Controls

Focus · Frost · Prism · Prism rotation · Zoom · Colour wheel · Strobe · Dimmer · Pan and tilt · Gobos · Gobo rotation

Safety-relevant functions

Lamp on and off · Fixture reset

DMX modes

16 Channels	23 ch
24 Channels	24 ch

16 Channels

23 channels

Ch	Function	Default	DMX values
1	Pan	128	0–0 MIn 1–254 Min > Max 255–255 Max
2	Reserved 2	0	
3	Tilt	128	0–0 Min 1–254 Min > Max 255–255 Max
4	Reserved 4	0	
5	Pan Tilt Mode	0	0–0 Min 1–254 Min > Max 255–255 Max
6	Control1	0	0–19 Empty 20–24 Energ Saving 230W 25–129 Empty 130–139 Lamp On 140–149 P/T Reset 150–159 Empty 160–169 Small Motors Reset 170–199 Empty 200–209 All FIxture Reset 210–229 Empty 230–239 Lamp Off 240–255 Empty
7	Color Wheel	0	0–8 White (wheel slot 1) 9–17 Deep Red (wheel slot 2) 18–26 Deep Blue (wheel slot 3) 27–35 Yellow (wheel slot 4) 36–44 Green (wheel slot 5) 45–53 Magenta (wheel slot 6) 54–62 Light Blue (wheel slot 7) 63–71 Red (wheel slot 8) 72–80 Deep Green (wheel slot 9) 81–89 Amber (wheel slot 10) 90–98 Blue (wheel slot 11) 99–107 Orange (wheel slot 12) 108–116 CTO (wheel slot 13) 117–127 Blue (wheel slot 14) 128–129 White + Blue (wheel slot 14) 130–134 Blue + CTO (wheel slot 13) 135–138 CTO + Orange (wheel slot 12) 139–143 Orange + Blue (wheel slot 11) 144–147 Blue + Amber (wheel slot 10) 148–152 Amber + Deep Green (wheel slot 9) 153–157 Deep Green + Red (wheel slot 8) 158–161 Red + Light Blue (wheel slot 7) 162–166 Light Blue + Magenta (wheel slot 6) 167–171 Magenta + Green (wheel slot 5) 172–176 Green + Yellow (wheel slot 4) 177–180 Yellow + Deep Blue (wheel slot 3) 181–185 Deep Blue + Deep Red (wheel slot 2) 186–189 Deep Red + White (wheel slot 1) 190–220 Fast > Slow (wheel slot 1) 221–250 Slow > Fast (wheel slot 1) 251–255 Sound color change (wheel slot 1)
8	Reserved 8	0	
9	No Feature	0	

16 Channels (continued)

Ch	Function	Default	DMX values
10	Gobo	0	0–3 Open (wheel slot 1) 4–9 Multidot (wheel slot 2) 10–15 Bars (wheel slot 3) 16–21 Triangle (wheel slot 4) 22–27 4 Dots (wheel slot 5) 28–33 Stars (wheel slot 6) 34–39 Dot line (wheel slot 7) 40–45 Horizontal Bar (wheel slot 8) 46–51 Vertical Bar (wheel slot 9) 52–57 Slices (wheel slot 10) 58–63 Bubbles (wheel slot 11) 64–69 Beam Reducer 1 (wheel slot 12) 70–75 Beam Reducer 2 (wheel slot 13) 76–87 Beam Reducer 3 (wheel slot 14) 88–95 Multidot (wheel slot 2) 96–103 Bars (wheel slot 3) 104–111 Triangle (wheel slot 4) 112–119 4 Dots (wheel slot 5) 120–127 Stars (wheel slot 6) 128–135 Dot line (wheel slot 7) 136–143 Horizontal Bar (wheel slot 8) 144–151 Vertical Bar (wheel slot 9) 152–159 Slices (wheel slot 10) 160–167 Bubbles (wheel slot 11) 168–175 Beam Reducer 1 (wheel slot 12) 176–183 Beam Reducer 2 (wheel slot 13) 184–199 Beam Reducer 3 (wheel slot 14) 200–200 Min 201–254 Min > Max 255–255 Max
11	Gobo 2	0	0–8 Open (wheel slot 1) 9–17 Triangles (wheel slot 2) 18–26 Circle Lines (wheel slot 3) 27–35 Tribal (wheel slot 4) 36–44 Star lines (wheel slot 5) 45–53 Rectangle dots (wheel slot 6) 54–62 Multidots (wheel slot 7) 63–71 Circle flower (wheel slot 8) 72–80 Multidot (wheel slot 9) 81–89 Stars (wheel slot 10) 90–97 Triangles (wheel slot 2) 98–106 Circle Lines (wheel slot 3) 107–115 Tribal (wheel slot 4) 116–124 Star lines (wheel slot 5) 125–133 Rectangle dots (wheel slot 6) 134–142 Multidots (wheel slot 7) 143–151 Circle flower (wheel slot 8) 152–160 Multidot (wheel slot 9) 161–179 Stars (wheel slot 10) 180–217 Fast > Slow 218–255 Empty Channel Set
12	Gobo Rotation	0	0–127 Index 128–177 Slow > Fast CCW 178–203 Stop 204–255 Fast > Slow CW
13	Reserved 13	0	
14	Prism	0	0–19 Open 20–75 Prisma 6 (wheel slot 2) 76–255 Prisma 8 (wheel slot 1)

16 Channels (continued)

Ch	Function	Default	DMX values
15	Prism Rotation	0	0–127 Index 128–191 CW Fast > Slow 192–193 Stop 194–255 CCW Slow > Fast
16	Frost1	0	0–64 Frost Off 65–255 Frost On
17	Zoom	128	0–0 Min 1–254 Min > Max 255–255 Max
18	Reserved 18	0	
19	Focus	128	0–0 Min 1–254 Min > Max 255–255 Max
20	Reserved 20	0	
21	No Feature	0	
22	Shutter / Strobe	224	0–31 Close 32–63 Open 64–64 Strobe Slow > Fast · Min 65–94 Strobe Slow > Fast · Min > Max 95–95 Strobe Slow > Fast · Max 96–127 Open 128–143 Strobe Pulse · Fast > Slow Slow Close Fast 144–159 Slow > Fast Fsat Open 160–191 Open 192–192 Strobe Random · Min 193–222 Strobe Random · Min > Max 223–223 Strobe Random · Max 224–255 Open
23	Dimmer	0	0–0 MIn 1–254 Min > Max 255–255 Max

24 Channels

24 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	Pan Tilt Mode	0	0–0 Min 1–254 Min > Max 255–255 Max
6	Control1	0	0–19 Empty 20–24 Energ Saving 230W 25–129 Empty 130–139 Lamp On 140–149 P/T Reset 150–159 Empty 160–169 Small Motors Reset 170–199 Empty 200–209 All FIxture Reset 210–229 Empty 230–239 Lamp Off 240–255 Empty

24 Channels (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–8 White (wheel slot 1) 9–17 Deep Red (wheel slot 2) 18–26 Deep Blue (wheel slot 3) 27–35 Yellow (wheel slot 4) 36–44 Green (wheel slot 5) 45–53 Magenta (wheel slot 6) 54–62 Light Blue (wheel slot 7) 63–71 Red (wheel slot 8) 72–80 Deep Green (wheel slot 9) 81–89 Amber (wheel slot 10) 90–98 Blue (wheel slot 11) 99–107 Orange (wheel slot 12) 108–116 CTO (wheel slot 13) 117–127 Blue (wheel slot 14) 128–129 White + Blue (wheel slot 14) 130–134 Blue + CTO (wheel slot 13) 135–138 CTO + Orange (wheel slot 12) 139–143 Orange + Blue (wheel slot 11) 144–147 Blue + Amber (wheel slot 10) 148–152 Amber + Deep Green (wheel slot 9) 153–157 Deep Green + Red (wheel slot 8) 158–161 Red + Light Blue (wheel slot 7) 162–166 Light Blue + Magenta (wheel slot 6) 167–171 Magenta + Green (wheel slot 5) 172–176 Green + Yellow (wheel slot 4) 177–180 Yellow + Deep Blue (wheel slot 3) 181–185 Deep Blue + Deep Red (wheel slot 2) 186–189 Deep Red + White (wheel slot 1) 190–220 Fast > Slow (wheel slot 1) 221–250 Slow > Fast (wheel slot 1) 251–255 Sound color change (wheel slot 1)
8	No Feature	0	
9	No Feature	0	

24 Channels (continued)

Ch	Function	Default	DMX values
10	Gobo	0	0–3 Open (wheel slot 1) 4–9 Multidot (wheel slot 2) 10–15 Bars (wheel slot 3) 16–21 Triangle (wheel slot 4) 22–27 4 Dots (wheel slot 5) 28–33 Stars (wheel slot 6) 34–39 Dot line (wheel slot 7) 40–45 Horizontal Bar (wheel slot 8) 46–51 Vertical Bar (wheel slot 9) 52–57 Slices (wheel slot 10) 58–63 Bubbles (wheel slot 11) 64–69 Beam Reducer 1 (wheel slot 12) 70–75 Beam Reducer 2 (wheel slot 13) 76–87 Beam Reducer 3 (wheel slot 14) 88–95 Multidot (wheel slot 2) 96–103 Bars (wheel slot 3) 104–111 Triangle (wheel slot 4) 112–119 4 Dots (wheel slot 5) 120–127 Stars (wheel slot 6) 128–135 Dot line (wheel slot 7) 136–143 Horizontal Bar (wheel slot 8) 144–151 Vertical Bar (wheel slot 9) 152–159 Slices (wheel slot 10) 160–167 Bubbles (wheel slot 11) 168–175 Beam Reducer 1 (wheel slot 12) 176–183 Beam Reducer 2 (wheel slot 13) 184–199 Beam Reducer 3 (wheel slot 14) 200–200 Min 201–254 Min > Max 255–255 Max
11	Gobo 2	0	0–8 Open (wheel slot 1) 9–17 Triangles (wheel slot 2) 18–26 Circle Lines (wheel slot 3) 27–35 Tribal (wheel slot 4) 36–44 Star lines (wheel slot 5) 45–53 Rectangle dots (wheel slot 6) 54–62 Multidots (wheel slot 7) 63–71 Circle flower (wheel slot 8) 72–80 Multidot (wheel slot 9) 81–89 Stars (wheel slot 10) 90–97 Triangles (wheel slot 2) 98–106 Circle Lines (wheel slot 3) 107–115 Tribal (wheel slot 4) 116–124 Star lines (wheel slot 5) 125–133 Rectangle dots (wheel slot 6) 134–142 Multidots (wheel slot 7) 143–151 Circle flower (wheel slot 8) 152–160 Multidot (wheel slot 9) 161–179 Stars (wheel slot 10) 180–217 Fast > Slow 218–255 Empty Channel Set
12	Gobo Rotation	0	0–127 Index 128–177 Slow > Fast CCW 178–203 Stop 204–255 Fast > Slow CW
13	No Feature	0	
14	Prism	0	0–19 Open 20–75 Prisma 6 (wheel slot 2) 76–255 Prisma 8 (wheel slot 1)

24 Channels (continued)

Ch	Function	Default	DMX values
15	Prism Rotation	0	0–127 Index 128–191 CW Fast > Slow 192–193 Stop 194–255 CCW Slow > Fast
16	Frost1	0	0–64 Frost Off 65–255 Frost On
17	Zoom	128	
18	Zoom Fine	0	Fine byte of Zoom
19	Focus	128	
20	Focus Fine	0	Fine byte of Focus
21	No Feature	0	
22	Shutter / Strobe	224	0–31 Close 32–63 Open 64–64 Strobe Slow > Fast · Min 65–94 Strobe Slow > Fast · Min > Max 95–95 Strobe Slow > Fast · Max 96–127 Open 128–143 Strobe Pulse · Fast > Slow Slow Close Fast 144–159 Slow > Fast Fsat Open 160–191 Open 192–192 Strobe Random · Min 193–222 Strobe Random · Min > Max 223–223 Strobe Random · Max 224–255 Open
23	Dimmer	0	0–0 MIn 1–254 Min > Max 255–255 Max
24	No Feature	0	