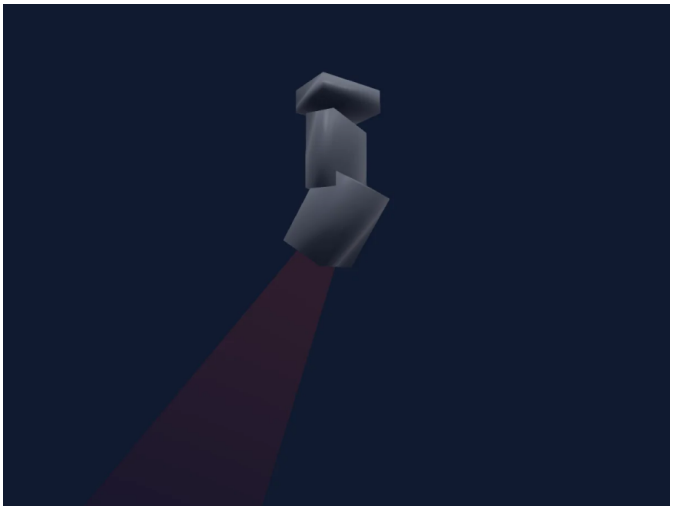
Favolite

Vader BWS 250



Manufacturer	**Favolite**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**18, 24 channels**
Beam angle	**5-45°**
Pan range	**1080°**
Tilt range	**540°**
Size (W × H × D)	**300 × 357 × 207 mm**
GDTF fixture type	**95201603-5893-4AE0-AB5E-B9…**

Controls

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

Safety-relevant functions

Fixture reset · Service functions · Strobe

DMX modes

18CH	18 ch
24Ch	24 ch

18CH

18 channels

Ch	Function	Default	DMX values
1	Pan	0	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	0	
4	Tilt Fine	0	Fine byte of Tilt
5	Color Wheel	0	0–7 No Colour (wheel slot 1) 8–15 Colour1 (wheel slot 2) 16–23 Colour2 (wheel slot 3) 24–31 Colour3 (wheel slot 4) 32–39 Colour4 (wheel slot 5) 40–47 Colour5 (wheel slot 6) 48–55 Colour 6 (wheel slot 7) 56–63 Colour7 (wheel slot 8) 64–71 Colour8 (wheel slot 9) 72–79 Colour9 (wheel slot 10) 80–87 Colour10 (wheel slot 11) 88–95 Colour11 (wheel slot 12) 96–221 Colour Arbitrary positioning 222–238 Rotate left 239–255 Rotate right
6	Gobo	0	0–3 Open (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 8 (wheel slot 9) 36–39 Gobo 9 (wheel slot 10) 40–43 Gobo 10 (wheel slot 11) 44–47 Gobo 11 (wheel slot 12) 48–51 Gobo 12 (wheel slot 13) 52–55 Gobo 13 (wheel slot 14) 56–59 Gobo 14 (wheel slot 15) 60–63 Gobo 15 (wheel slot 16) 64–67 Gobo 16 (wheel slot 17) 68–71 No Gobo (wheel slot 1) 72–77 Gobo1 Shake From Slow To Fast (wheel slot 2) 78–83 Gobo2 Shake From Slow To Fast (wheel slot 3) 84–89 Gobo3 Shake From Slow To Fast (wheel slot 4) 90–95 Gobo4 Shake From Slow To Fast (wheel slot 5) 96–101 Gobo5 Shake From Slow To Fast (wheel slot 6) 102–107 Gobo6 Shake From Slow To Fast (wheel slot 7) 108–113 Gobo7 Shake From Slow To Fast (wheel slot 8) 114–119 Gobo8 Shake From Slow To Fast (wheel slot 9) 120–125 Gobo9 Shake From Slow To Fast (wheel slot 10) 126–131 Gobo10 Shake From Slow To Fast (wheel slot 11) 132–137 Gobo11 Shake From Slow To Fast (wheel slot 12) 138–143 Gobo12 Shake From Slow To Fast (wheel slot 13) 144–149 Gobo13 Shake From Slow To Fast (wheel slot 14) 150–155 Gobo14 Shake From Slow To Fast (wheel slot 15) 156–161 Gobo15 Shake From Slow To Fast (wheel slot 16) 162–167 Gobo16 Shake From Slow To Fast (wheel slot 17) 168–211 Rotate Left 212–255 Rotate Right

18CH (continued)

Ch	Function	Default	DMX values
7	Gobo 2	0	0–7 Open (wheel slot 1) 8–15 Gobo 1 (wheel slot 2) 16–23 Gobo 2 (wheel slot 3) 24–31 Gobo 3 (wheel slot 4) 32–39 Gobo 4 (wheel slot 5) 40–47 Gobo 5 (wheel slot 6) 48–55 Gobo 6 (wheel slot 7) 56–63 Gobo 7 (wheel slot 8) 64–71 Gobo 7 (wheel slot 9) 72–79 Gobo1 Shake From Slow To Fast (wheel slot 2) 80–87 Gobo2 Shake From Slow To Fast (wheel slot 3) 88–95 Gobo3 Shake From Slow To Fast (wheel slot 4) 96–103 Gobo4 Shake From Slow To Fast (wheel slot 5) 104–111 Gobo5 Shake From Slow To Fast (wheel slot 6) 112–119 Gobo6 Shake From Slow To Fast (wheel slot 7) 120–127 Gobo7 Shake From Slow To Fast (wheel slot 8) 128–135 Gobo8 Shake From Slow To Fast (wheel slot 9) 136–195 Rotate Left 196–255 Rotate Right
8	Gobo Rotation	0	0–3 No Effect 4–123 R-Gobo Angle 124–187 Rotate Left 188–191 Stop 192–255 Rotate Right
9	Dimmer	0	0–254 Closed 255–255 Open
10	Shutter / Strobe	0	0–3 Open 4–67 Open<->Close 68–99 Close->Open 100–131 Open->Close 132–175 Half Open And Half Close 176–247 Pulse Strobe 248–251 Synchronous Random Strobe 252–255 Asynchronous Random Strobe
11	Dimmer Mode	0	0–31 600Hz Auto Fade 32–63 600Hz No Fade 64–95 300Hz Auto Fade 96–127 300Hz No Fade 128–159 1200Hz Auto Fade 160–191 1200Hz No Fade 192–223 8333Khz Auto Fade 224–255 8333KHz No Fade
12	Prism	0	0–31 No Prism (wheel slot 1) 32–255 prism on (wheel slot 2)
13	Prism Rotation	3	0–3 Prism Stop 4–123 Prism Angle 124–187 Rotate Left Fast To Slow 188–191 Stop 192–255 Rotate Right Slow To Fast
14	Zoom	255	
15	Focus	0	
16	Frost1	0	0–9 No Effect 10–255 Liner Frost
17	Scan Speed	0	

18CH (continued)

Ch	Function	Default	DMX values
18	Control1	0	0–19 No Used 20–29 Reset All 30–39 Reset Pan/Tilt 40–49 Reset Colour/Gobo/CMY/CTO 50–59 Reset Zoom/Focus/PrismFros 60–69 No Effect 70–74 Display Default 75–79 Display off(don't Keep after shutdown) 80–84 Display on(don't Keep after shutdown) 85–89 Fan speed low(Keep after shutdown) 90–94 Fan speed medium(Keep after shutdown) 95–99 Fan speed high(Keep after shutdown) 100–255 No Effect

24Ch

24 channels

Ch	Function	Default	DMX values
1	Pan	0	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	0	
4	Tilt Fine	0	Fine byte of Tilt
5	Color Wheel	0	0–7 No Colour (wheel slot 1) 8–15 Colour1 (wheel slot 2) 16–23 Colour2 (wheel slot 3) 24–31 Colour3 (wheel slot 4) 32–39 Colour4 (wheel slot 5) 40–47 Colour5 (wheel slot 6) 48–55 Colour 6 (wheel slot 7) 56–63 Colour7 (wheel slot 8) 64–71 Colour8 (wheel slot 9) 72–79 Colour9 (wheel slot 10) 80–87 Colour10 (wheel slot 11) 88–95 Colour11 (wheel slot 12) 96–221 Colour Arbitrary positioning 222–238 Rotate left 239–255 Rotate right

24Ch (continued)

Ch	Function	Default	DMX values
6	Gobo	0	0–3 Open (wheel slot 1) 4–7 Gobo 1 (wheel slot 2) 8–11 Gobo 2 (wheel slot 3) 12–15 Gobo 3 (wheel slot 4) 16–19 Gobo 4 (wheel slot 5) 20–23 Gobo 5 (wheel slot 6) 24–27 Gobo 6 (wheel slot 7) 28–31 Gobo 7 (wheel slot 8) 32–35 Gobo 8 (wheel slot 9) 36–39 Gobo 9 (wheel slot 10) 40–43 Gobo 10 (wheel slot 11) 44–47 Gobo 11 (wheel slot 12) 48–51 Gobo 12 (wheel slot 13) 52–55 Gobo 13 (wheel slot 14) 56–59 Gobo 14 (wheel slot 15) 60–63 Gobo 15 (wheel slot 16) 64–67 Gobo 16 (wheel slot 17) 68–71 No Gobo (wheel slot 1) 72–77 Gobo1 Shake From Slow To Fast (wheel slot 2) 78–83 Gobo2 Shake From Slow To Fast (wheel slot 3) 84–89 Gobo3 Shake From Slow To Fast (wheel slot 4) 90–95 Gobo4 Shake From Slow To Fast (wheel slot 5) 96–101 Gobo5 Shake From Slow To Fast (wheel slot 6) 102–107 Gobo6 Shake From Slow To Fast (wheel slot 7) 108–113 Gobo7 Shake From Slow To Fast (wheel slot 8) 114–119 Gobo8 Shake From Slow To Fast (wheel slot 9) 120–125 Gobo9 Shake From Slow To Fast (wheel slot 10) 126–131 Gobo10 Shake From Slow To Fast (wheel slot 11) 132–137 Gobo11 Shake From Slow To Fast (wheel slot 12) 138–143 Gobo12 Shake From Slow To Fast (wheel slot 13) 144–149 Gobo13 Shake From Slow To Fast (wheel slot 14) 150–155 Gobo14 Shake From Slow To Fast (wheel slot 15) 156–161 Gobo15 Shake From Slow To Fast (wheel slot 16) 162–167 Gobo16 Shake From Slow To Fast (wheel slot 17) 168–211 Rotate Left 212–255 Rotate Right
7	Gobo 2	0	0–7 Open (wheel slot 1) 8–15 Gobo 1 (wheel slot 2) 16–23 Gobo 2 (wheel slot 3) 24–31 Gobo 3 (wheel slot 4) 32–39 Gobo 4 (wheel slot 5) 40–47 Gobo 5 (wheel slot 6) 48–55 Gobo 6 (wheel slot 7) 56–63 Gobo 7 (wheel slot 8) 64–71 Gobo 7 (wheel slot 9) 72–79 Gobo1 Shake From Slow To Fast (wheel slot 2) 80–87 Gobo2 Shake From Slow To Fast (wheel slot 3) 88–95 Gobo3 Shake From Slow To Fast (wheel slot 4) 96–103 Gobo4 Shake From Slow To Fast (wheel slot 5) 104–111 Gobo5 Shake From Slow To Fast (wheel slot 6) 112–119 Gobo6 Shake From Slow To Fast (wheel slot 7) 120–127 Gobo7 Shake From Slow To Fast (wheel slot 8) 128–135 Gobo8 Shake From Slow To Fast (wheel slot 9) 136–195 Rotate Left 196–255 Rotate Right
8	Gobo Rotation	0	0–3 No Effect 4–123 R-Gobo Angle 124–187 Rotate Left 188–191 Stop 192–255 Rotate Right
9	Dimmer	0	0–254 Closed 255–255 Open

24Ch (continued)

Ch	Function	Default	DMX values
10	Dimmer Fine	0	Fine byte of Dimmer
11	Shutter / Strobe	0	0–3 Open 4–67 Open<->Close 68–99 Close->Open 100–131 Open->Close 132–175 Half Open And Half Close 176–247 Pulse Strobe 248–251 Synchronous Random Strobe 252–255 Asynchronous Random Strobe
12	Dimmer Mode	0	0–31 600Hz Auto Fade 32–63 600Hz No Fade 64–95 300Hz Auto Fade 96–127 300Hz No Fade 128–159 1200Hz Auto Fade 160–191 1200Hz No Fade 192–223 8333Khz Auto Fade 224–255 8333KHz No Fade
13	Dimmer Curve	0	0–31 Square Law 32–63 Linear 64–95 Inverse Square Law 96–127 S-Curve 128–255 Reserve
14	Prism	0	0–31 No Prism (wheel slot 1) 32–255 prism on (wheel slot 2)
15	Prism Rotation	3	0–3 Prism Stop 4–123 Prism Angle 124–187 Rotate Left Fast To Slow 188–191 Stop 192–255 Rotate Right Slow To Fast
16	Zoom	255	
17	Zoom Fine	255	Fine byte of Zoom
18	Focus	0	
19	Focus Fine	0	Fine byte of Focus
20	Focus1Distance	0	
21	Focus1Distance Fine	0	Fine byte of Focus1Distance
22	Frost1	0	0–9 No Effect 10–255 Liner Frost
23	Scan Speed	0	
24	Control1	0	0–19 No Used 20–29 Reset All 30–39 Reset Pan/Tilt 40–49 Reset Colour/Gobo/CMY/CTO 50–59 Reset Zoom/Focus/PrismFros 60–69 No Effect 70–74 Display Default 75–79 Display off(don't Keep after shutdown) 80–84 Display on(don't Keep after shutdown) 85–89 Fan speed low(Keep after shutdown) 90–94 Fan speed medium(Keep after shutdown) 95–99 Fan speed high(Keep after shutdown) 100–255 No Effect