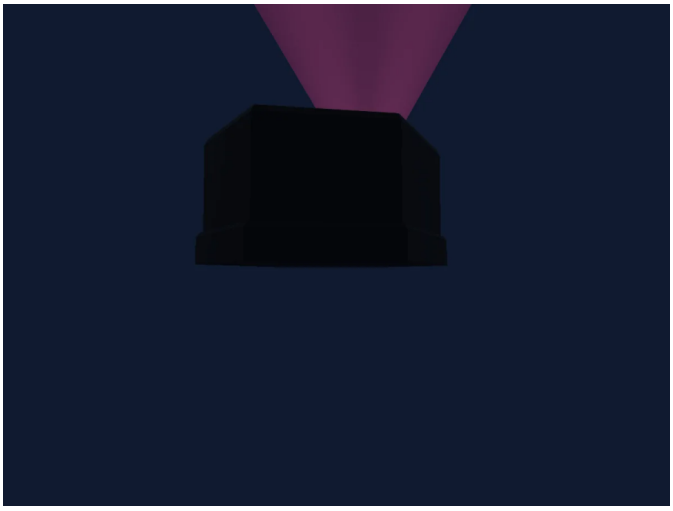
BeamZ

RB 90 wW RGB



Manufacturer	**BeamZ**
Type	**Blinder**
DMX modes	**4**
DMX footprint	**16, 34 channels**
Beam angle	**50-70°**
Heads / cells	**3**
Size (W × H × D)	**205 × 110 × 205 mm**
GDTF fixture type	**4EF7D346-1EF6-4120-B714-D2…**

Controls

Effect speed · Strobe · Dimmer · Pixel control

Safety-relevant functions

Built-in effect programmes

DMX modes

16 Ch Pixel Control Standard	16 ch
34 Ch Pixel Control + Virtual Dimmer	34 ch
34 Ch Pixel Control Basic	34 ch
34 Ch Pixel Control Standard	34 ch

16 Ch Pixel Control Standard

16 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
2	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
3	Dimmer	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
4	Reserved 4	0	
5	Reserved 5	0	
6	Effect	0	0–50 No Function 51–100 LED Combi Select 101–150 Fade Effects 151–200 Pulse Effects 201–255 Snap Effects
7	Effect Speed	0	0–17 No Function 1 18–34 COB 2 35–51 COB 3 52–63 COB 1+2 64–68 025 69–85 COB 2+3 86–102 COB 1+3 103–119 COB 1 120–127 COB 2 128–136 050 137–153 COB 3 154–170 COB 2 171–191 COB 1 192–204 075 205–221 COB 1+2 222–238 COB 1+2+3 239–254 COB 2+3 255–255 100

16 Ch Pixel Control Standard (continued)

Ch	Function	Default	DMX values
8	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
9	Effect	0	0–7 Wheel Slot 0 Open 8–19 Wheel Slot 1 20–31 Wheel Slot 2 32–43 Wheel Slot 3 44–55 Wheel Slot 4 56–67 Wheel Slot 5 68–79 Wheel Slot 6 80–91 Wheel Slot 7 92–103 Wheel Slot 8 104–115 Wheel Slot 9 116–127 Wheel Slot 10 128–139 Wheel Slot 11 140–151 Wheel Slot 12 152–163 Wheel Slot 13 164–175 Wheel Slot 14 176–187 Wheel Slot 15 188–199 Wheel Slot 16 200–211 Wheel Slot 17 212–223 Wheel Slot 18 224–235 Wheel Slot 19 236–255 Wheel Slot 20
10	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
11	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
12	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
13	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

16 Ch Pixel Control Standard (continued)

Ch	Function	Default	DMX values
14	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
15	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
16	Effect Speed	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

34 Ch Pixel Control + Virtual Dimmer

34 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
2	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
3	Dimmer	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
4	Reserved 4	0	
5	Reserved 5	0	
6	Effect	0	0–50 No Function 51–100 LED Combi Select 101–150 Fade Effects 151–200 Pulse Effects 201–255 Snap Effects

34 Ch Pixel Control + Virtual Dimmer (continued)

Ch	Function	Default	DMX values
7	Effect Speed	0	0–17 No Function 1 18–34 COB 2 35–51 COB 3 52–63 COB 1+2 64–68 025 69–85 COB 2+3 86–102 COB 1+3 103–119 COB 1 120–127 COB 2 128–136 050 137–153 COB 3 154–170 COB 2 171–191 COB 1 192–204 075 205–221 COB 1+2 222–238 COB 1+2+3 239–254 COB 2+3 255–255 100
8	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
9	Red	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
10	Green	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
11	Blue	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	

34 Ch Pixel Control + Virtual Dimmer (continued)

Ch	Function	Default	DMX values
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Effect	0	0–7 Wheel Slot 0 Open 8–19 Wheel Slot 1 20–31 Wheel Slot 2 32–43 Wheel Slot 3 44–55 Wheel Slot 4 56–67 Wheel Slot 5 68–79 Wheel Slot 6 80–91 Wheel Slot 7 92–103 Wheel Slot 8 104–115 Wheel Slot 9 116–127 Wheel Slot 10 128–139 Wheel Slot 11 140–151 Wheel Slot 12 152–163 Wheel Slot 13 164–175 Wheel Slot 14 176–187 Wheel Slot 15 188–199 Wheel Slot 16 200–211 Wheel Slot 17 212–223 Wheel Slot 18 224–235 Wheel Slot 19 236–255 Wheel Slot 20
28	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
29	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
30	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
31	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
32	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

34 Ch Pixel Control + Virtual Dimmer (continued)

Ch	Function	Default	DMX values
33	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
34	Effect Speed	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

34 Ch Pixel Control Basic

34 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
2	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
3	Dimmer	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
4	Reserved 4	0	
5	Reserved 5	0	
6	Effect	0	0–50 No Function 51–100 LED Combi Select 101–150 Fade Effects 151–200 Pulse Effects 201–255 Snap Effects

34 Ch Pixel Control Basic (continued)

Ch	Function	Default	DMX values
7	Effect Speed	0	0–17 No Function 1 18–34 COB 2 35–51 COB 3 52–63 COB 1+2 64–68 025 69–85 COB 2+3 86–102 COB 1+3 103–119 COB 1 120–127 COB 2 128–136 050 137–153 COB 3 154–170 COB 2 171–191 COB 1 192–204 075 205–221 COB 1+2 222–238 COB 1+2+3 239–254 COB 2+3 255–255 100
8	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
9	Red	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
10	Green	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
11	Blue	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	

34 Ch Pixel Control Basic (continued)

Ch	Function	Default	DMX values
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Effect	0	0–7 Wheel Slot 0 Open 8–19 Wheel Slot 1 20–31 Wheel Slot 2 32–43 Wheel Slot 3 44–55 Wheel Slot 4 56–67 Wheel Slot 5 68–79 Wheel Slot 6 80–91 Wheel Slot 7 92–103 Wheel Slot 8 104–115 Wheel Slot 9 116–127 Wheel Slot 10 128–139 Wheel Slot 11 140–151 Wheel Slot 12 152–163 Wheel Slot 13 164–175 Wheel Slot 14 176–187 Wheel Slot 15 188–199 Wheel Slot 16 200–211 Wheel Slot 17 212–223 Wheel Slot 18 224–235 Wheel Slot 19 236–255 Wheel Slot 20
28	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
29	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
30	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
31	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
32	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

34 Ch Pixel Control Basic (continued)

Ch	Function	Default	DMX values
33	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
34	Effect Speed	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

34 Ch Pixel Control Standard

34 channels

Ch	Function	Default	DMX values
1	Dimmer	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
2	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
3	Dimmer	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
4	Reserved 4	0	
5	Reserved 5	0	
6	Effect	0	0–50 No Function 51–100 LED Combi Select 101–150 Fade Effects 151–200 Pulse Effects 201–255 Snap Effects

34 Ch Pixel Control Standard (continued)

Ch	Function	Default	DMX values
7	Effect Speed	0	0–17 No Function 1 18–34 COB 2 35–51 COB 3 52–63 COB 1+2 64–68 025 69–85 COB 2+3 86–102 COB 1+3 103–119 COB 1 120–127 COB 2 128–136 050 137–153 COB 3 154–170 COB 2 171–191 COB 1 192–204 075 205–221 COB 1+2 222–238 COB 1+2+3 239–254 COB 2+3 255–255 100
8	Shutter / Strobe	8	0–0 Closed 1–8 Open 9–39 Shutter Strobe 1 · 001 1–6.9 Hz 40–69 Shutter Strobe 1 · 025 7.1–12.8 Hz 70–109 Shutter Strobe 1 · 050 13–20.7 Hz 110–130 Shutter Strobe 1 · 075 20.9–24.8 Hz 131–131 Shutter Strobe 1 · 100 25 Hz 132–139 Open 140–149 Shutter Strobe Pulse 1 · 001 1–4.73 Hz 150–159 Shutter Strobe Pulse 1 · 025 5.15–8.88 Hz 160–169 Shutter Strobe Pulse 1 · 050 9.29–13 Hz 170–180 Shutter Strobe Pulse 1 · 075 13.4–17.6 Hz 181–181 Shutter Strobe Pulse 1 · 100 18 Hz 182–189 Open 190–199 Shutter Strobe Pulse Random 1 · 001 1–4.73 Hz 200–209 Shutter Strobe Pulse Random 1 · 025 5.15–8.88 Hz 210–219 Shutter Strobe Pulse Random 1 · 050 9.29–13 Hz 220–230 Shutter Strobe Pulse Random 1 · 075 13.4–17.6 Hz 231–231 Shutter Strobe Pulse Random 1 · 100 18 Hz 232–255 Open
9	Red	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
10	Green	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
11	Blue	255	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	

34 Ch Pixel Control Standard (continued)

Ch	Function	Default	DMX values
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Effect	0	0–7 Wheel Slot 0 Open 8–19 Wheel Slot 1 20–31 Wheel Slot 2 32–43 Wheel Slot 3 44–55 Wheel Slot 4 56–67 Wheel Slot 5 68–79 Wheel Slot 6 80–91 Wheel Slot 7 92–103 Wheel Slot 8 104–115 Wheel Slot 9 116–127 Wheel Slot 10 128–139 Wheel Slot 11 140–151 Wheel Slot 12 152–163 Wheel Slot 13 164–175 Wheel Slot 14 176–187 Wheel Slot 15 188–199 Wheel Slot 16 200–211 Wheel Slot 17 212–223 Wheel Slot 18 224–235 Wheel Slot 19 236–255 Wheel Slot 20
28	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
29	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
30	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
31	Red	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
32	Green	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100

34 Ch Pixel Control Standard (continued)

Ch	Function	Default	DMX values
33	Blue	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100
34	Effect Speed	0	0–63 000 64–127 025 128–191 050 192–254 075 255–255 100