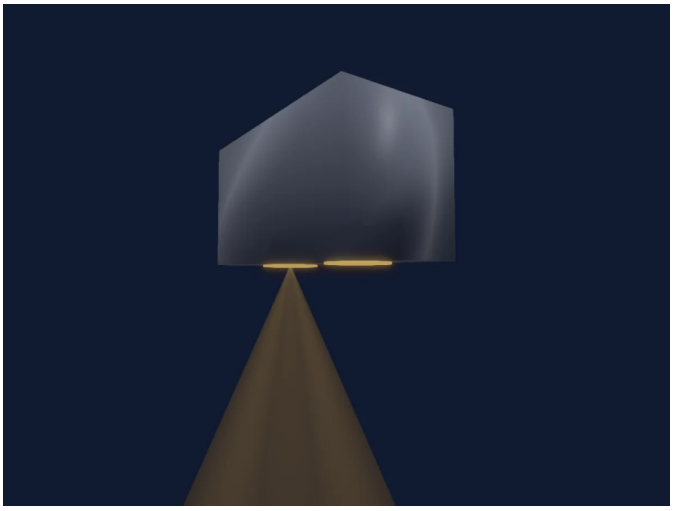
Black Light Design

ULTRA BLINDER IP (BL 200 IP)



Manufacturer	**Black Light Design**
Type	**Blinder**
DMX modes	**11**
DMX footprint	**1, 2, 4, 6, 7, 9, 10, 11, 14, 16 channels**
Beam angle	**49°**
Heads / cells	**2**
Size (W × H × D)	**10 × 10 × 10 mm**
GDTF fixture type	**48C129DE-6C37-42D8-A432-C3…**

Controls

Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pixel control

Safety-relevant functions

Strobe

DMX modes

Mode 5 1CH (WW)	1 ch
Mode 6 2CH (WW)	2 ch
Mode 7 4CH (WW)	4 ch
Mode 8 6CH (WW)	6 ch
Mode 9 6CH (RGBW)	6 ch
Mode 10 7CH (RGBW)	7 ch
Mode 1 9CH	9 ch
Mode 11 10CH (RGBW)	10 ch
Mode 2 11CH	11 ch
Mode 3 14 CH	14 ch
Mode 4 16CH	16 ch

Mode 5 1CH (WW)

1 channel

Ch	Function	Default	DMX values
1	Dimmer	0	

Mode 6 2CH (WW)

2 channels

Ch	Function	Default	DMX values
1	Dimmer	0	
2	Dimmer	0	

Mode 7 4CH (WW)

4 channels

Ch	Function	Default	DMX values
1	Dimmer	255	
2	Dimmer	255	
3	Dimmer	0	
4	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 8 6CH (WW)

6 channels

Ch	Function	Default	DMX values
1	Dimmer	255	
2	Dimmer Fine	255	Fine byte of Dimmer
3	Dimmer	255	
4	Dimmer Fine	255	Fine byte of Dimmer
5	Dimmer	0	
6	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 9 6CH (RGBW)

6 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add WW	0	

Mode 9 6CH (RGBW) (continued)

Ch	Function	Default	DMX values
5	Dimmer	0	
6	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 10 7CH (RGBW)

7 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add WW	0	
5	Color Wheel	0	0–7 Open (wheel slot 1) 8–15 Color 1 (wheel slot 2) 16–23 Color 2 (wheel slot 3) 24–31 Color 3 (wheel slot 4) 32–39 Color 4 (wheel slot 5) 40–47 Color 5 (wheel slot 6) 48–55 Color 6 (wheel slot 7) 56–63 Color 7 (wheel slot 8) 64–71 Color 8 (wheel slot 9) 72–79 Color 9 (wheel slot 10) 80–87 Color 10 (wheel slot 11) 88–95 Color 11 (wheel slot 12) 96–103 Color 12 (wheel slot 13) 104–111 Color 13 (wheel slot 14) 112–119 Color 14 (wheel slot 15) 120–127 Color 15 (wheel slot 16) 128–135 Color 16 (wheel slot 17) 136–143 Color 17 (wheel slot 18) 144–151 Color 18 (wheel slot 19) 152–159 Color 19 (wheel slot 20) 160–167 Color 20 (wheel slot 21) 168–175 Color 21 (wheel slot 22) 176–183 Color 22 (wheel slot 23) 184–191 Color 23 (wheel slot 24) 192–199 Color 24 (wheel slot 25) 200–207 Color 25 (wheel slot 26) 208–213 Color 26 (wheel slot 27) 214–219 Color 27 (wheel slot 28) 220–225 Color 28 (wheel slot 29) 226–231 Color 29 (wheel slot 30) 232–237 Color 30 (wheel slot 31) 238–243 Color 31 (wheel slot 32) 244–249 Color 32 (wheel slot 33) 250–255 Color 33 (wheel slot 34)
6	Dimmer	0	

Mode 10 7CH (RGBW) (continued)

Ch	Function	Default	DMX values
7	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 1 9CH

9 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add RY	0	
5	Color Add WW	0	
6	Dimmer	0	
7	Dimmer Fine	0	Fine byte of Dimmer
8	Shutter / Strobe	3	0–5 Open 6–122 min Strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 1 9CH (continued)

Ch	Function	Default	DMX values
9	Function	15	0–29 Null 30–39 Linear 40–49 Square Law 50–59 Inv SQ Law 60–69 S Curve 70–99 Null 2 100–109 Enable 110–119 Disable 120–122 Null 3 123–123 900Hz 124–124 1000Hz 125–125 1100Hz 126–126 1200Hz 127–127 1300Hz 128–128 1400Hz 129–129 1500Hz 130–130 2500Hz 131–131 4000Hz 132–132 5000Hz 133–133 6000Hz 134–134 10KHz 135–135 15KHz 136–136 20KHz 137–137 25KHz 138–139 Null 4 140–209 Null 5 210–219 Fast 220–229 Smooth 230–239 Tungsten 240–249 All Tungsten 250–255 Null 6

Mode 11 10CH (RGBW)

10 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add WW	0	
5	Red	255	
6	Green	255	
7	Blue	255	
8	Color Add WW	0	
9	Dimmer	0	
10	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 2 11CH

11 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add RY	0	
5	Color Add WW	0	
6	Color Wheel	0	0–9 Open (wheel slot 1) 10–16 Color 1 (wheel slot 2) 17–23 Color 2 (wheel slot 3) 24–30 Color 3 (wheel slot 4) 31–37 Color 4 (wheel slot 5) 38–44 Color 5 (wheel slot 6) 45–51 Color 6 (wheel slot 7) 52–58 Color 7 (wheel slot 8) 59–65 Color 8 (wheel slot 9) 66–72 Color 9 (wheel slot 10) 73–79 Color 10 (wheel slot 11) 80–86 Color 11 (wheel slot 12) 87–93 Color 12 (wheel slot 13) 94–100 Color 13 (wheel slot 14) 101–107 Color 14 (wheel slot 15) 108–114 Color 15 (wheel slot 16) 115–121 Color 16 (wheel slot 17) 122–128 Color 17 (wheel slot 18) 129–135 Color 18 (wheel slot 19) 136–142 Color 19 (wheel slot 20) 143–149 Color 20 (wheel slot 21) 150–156 Color 21 (wheel slot 22) 157–163 Color 22 (wheel slot 23) 164–170 Color 23 (wheel slot 24) 171–177 Color 24 (wheel slot 25) 178–184 Color 25 (wheel slot 26) 185–191 Color 26 (wheel slot 27) 192–198 Color 27 (wheel slot 28) 199–205 Color 28 (wheel slot 29) 206–212 Color 29 (wheel slot 30) 213–219 Color 30 (wheel slot 31) 220–226 Color 31 (wheel slot 32) 227–233 Color 32 (wheel slot 33) 234–255 Color 33 (wheel slot 34)
7	C TO	0	
8	Dimmer	0	
9	Dimmer Fine	0	Fine byte of Dimmer
10	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 2 11CH (continued)

Ch	Function	Default	DMX values
11	Function	15	0–29 Null 30–39 Linear 40–49 Square Law 50–59 Inv SQ Law 60–69 S Curve 70–99 Null 2 100–109 Enable 110–119 Disable 120–122 Null 3 123–123 900Hz 124–124 1000Hz 125–125 1100Hz 126–126 1200Hz 127–127 1300Hz 128–128 1400Hz 129–129 1500Hz 130–130 2500Hz 131–131 4000Hz 132–132 5000Hz 133–133 6000Hz 134–134 10KHz 135–135 15KHz 136–136 20KHz 137–137 25KHz 138–139 Null 4 140–209 Null 5 210–219 Fast 220–229 Smooth 230–239 Tungsten 240–249 All Tungsten 250–255 Null 6

Mode 3 14 CH

14 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add RY	0	
5	Color Add WW	0	
6	Red	255	
7	Green	255	
8	Blue	255	
9	Color Add RY	0	
10	Color Add WW	0	
11	Dimmer	0	
12	Dimmer Fine	0	Fine byte of Dimmer
13	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 3 14 CH (continued)

Ch	Function	Default	DMX values
14	Function	15	0–29 Null 30–39 Linear 40–49 Square Law 50–59 Inv SQ Law 60–69 S Curve 70–99 Null 2 100–109 Enable 110–119 Disable 120–122 Null 3 123–123 900Hz 124–124 1000Hz 125–125 1100Hz 126–126 1200Hz 127–127 1300Hz 128–128 1400Hz 129–129 1500Hz 130–130 2500Hz 131–131 4000Hz 132–132 5000Hz 133–133 6000Hz 134–134 10KHz 135–135 15KHz 136–136 20KHz 137–137 25KHz 138–139 Null 4 140–209 Null 5 210–219 Fast 220–229 Smooth 230–239 Tungsten 240–249 All Tungsten 250–255 Null 6

Mode 4 16CH

16 channels

Ch	Function	Default	DMX values
1	Red	255	
2	Green	255	
3	Blue	255	
4	Color Add RY	0	
5	Color Add WW	0	
6	Red	255	
7	Green	255	
8	Blue	255	
9	Color Add RY	0	
10	Color Add WW	0	

Mode 4 16CH (continued)

Ch	Function	Default	DMX values
11	Color Wheel	0	0–9 Open (wheel slot 1) 10–16 Color 1 (wheel slot 2) 17–23 Color 2 (wheel slot 3) 24–30 Color 3 (wheel slot 4) 31–37 Color 4 (wheel slot 5) 38–44 Color 5 (wheel slot 6) 45–51 Color 6 (wheel slot 7) 52–58 Color 7 (wheel slot 8) 59–65 Color 8 (wheel slot 9) 66–72 Color 9 (wheel slot 10) 73–79 Color 10 (wheel slot 11) 80–86 Color 11 (wheel slot 12) 87–93 Color 12 (wheel slot 13) 94–100 Color 13 (wheel slot 14) 101–107 Color 14 (wheel slot 15) 108–114 Color 15 (wheel slot 16) 115–121 Color 16 (wheel slot 17) 122–128 Color 17 (wheel slot 18) 129–135 Color 18 (wheel slot 19) 136–142 Color 19 (wheel slot 20) 143–149 Color 20 (wheel slot 21) 150–156 Color 21 (wheel slot 22) 157–163 Color 22 (wheel slot 23) 164–170 Color 23 (wheel slot 24) 171–177 Color 24 (wheel slot 25) 178–184 Color 25 (wheel slot 26) 185–191 Color 26 (wheel slot 27) 192–198 Color 27 (wheel slot 28) 199–205 Color 28 (wheel slot 29) 206–212 Color 29 (wheel slot 30) 213–219 Color 30 (wheel slot 31) 220–226 Color 31 (wheel slot 32) 227–233 Color 32 (wheel slot 33) 234–255 Color 33 (wheel slot 34)
12	C TO	0	
13	Dimmer	0	
14	Dimmer Fine	0	Fine byte of Dimmer
15	Shutter / Strobe	3	0–5 Open 6–122 min strobe 123–123 max strobe 124–127 open 2 128–184 min Ran Strobe 185–185 max Ran Strobe 186–190 open 3 191–248 min Ran2 Strobe 249–249 max Ran2 Strobe 250–255 open 4

Mode 4 16CH (continued)

Ch	Function	Default	DMX values
16	Function	15	0–29 Null 30–39 Linear 40–49 Square Law 50–59 Inv SQ Law 60–69 S Curve 70–99 Null 2 100–109 Enable 110–119 Disable 120–122 Null 3 123–123 900Hz 124–124 1000Hz 125–125 1100Hz 126–126 1200Hz 127–127 1300Hz 128–128 1400Hz 129–129 1500Hz 130–130 2500Hz 131–131 4000Hz 132–132 5000Hz 133–133 6000Hz 134–134 10KHz 135–135 15KHz 136–136 20KHz 137–137 25KHz 138–139 Null 4 140–209 Null 5 210–219 Fast 220–229 Smooth 230–239 Tungsten 240–249 All Tungsten 250–255 Null 6