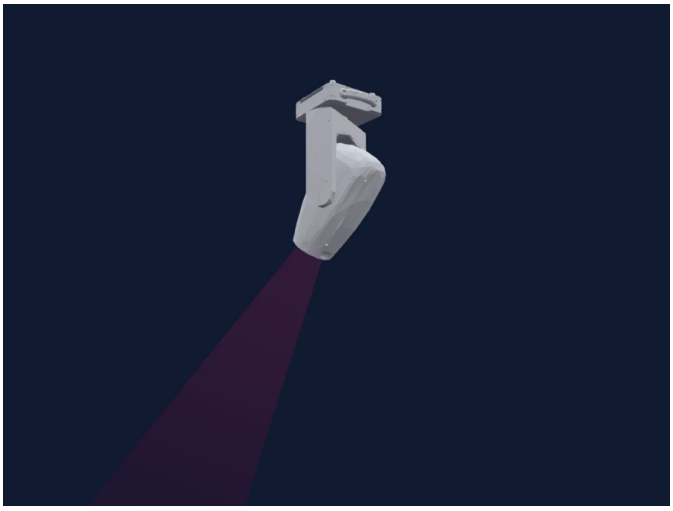
Rasha Professional

Photon Hybrid



Manufacturer	**Rasha Professional**
Type	**Profile spot**
DMX modes	**2**
DMX footprint	**25, 36 channels**
Beam angle	**6-42°**
Pan range	**540°**
Tilt range	**260°**
Size (W × H × D)	**273 × 491 × 271 mm**
GDTF fixture type	**BB78E0CE-B036-4A69-BA8D-E3…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Movement speed · Animation wheel · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Service functions · Strobe

DMX modes

25Ch Mode (8-Bit Control)	25 ch
35Ch (16-Bit Control)	36 ch

25Ch Mode (8-Bit Control)

25 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Position MSpeed	0	
6	Shutter / Strobe	11	0–10 Closed 11–21 Open 22–126 Strobe S>F 127–137 Open 138–201 Pulse S>F 202–212 Open 213–244 Random S>F 245–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Zoom	128	0–127 Narrow 128–254 Mid 255–255 Wide
9	Focus	128	0–127 Near 128–254 Mid 255–255 Far
10	Focus1Distance	0	0–45 Off 46–87 3m 88–129 5m 130–171 7m 172–213 10m 214–255 15m
11	Focus1Distance Fine	0	Fine byte of Focus1Distance
12	Color Wheel	0	0–15 Open (wheel slot 1) 16–22 Open / Red (wheel slot 1) 23–29 Red (wheel slot 2) 30–36 Red / Green (wheel slot 2) 37–43 Green (wheel slot 3) 44–50 Green / Blue (wheel slot 3) 51–57 Blue (wheel slot 4) 58–64 Blue / Yellow (wheel slot 4) 65–71 Yellow (wheel slot 5) 72–78 Yellow / Amber (wheel slot 5) 79–85 Amber (wheel slot 6) 86–92 Amber / Pink (wheel slot 6) 93–99 Pink (wheel slot 7) 100–106 Pink / UV (wheel slot 7) 107–113 UV (wheel slot 8) 114–120 UV / Open (wheel slot 8) 121–127 Open (wheel slot 1) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
13	Cyan	0	
14	Magenta	0	
15	Yellow	0	
16	C TO	1	0–0 Off 1–255 CTO

25Ch Mode (8-Bit Control) (continued)

Ch	Function	Default	DMX values
17	Gobo	0	0–7 Open (wheel slot 1) 8–20 Rot 1 (wheel slot 2) 21–33 Rot 2 (wheel slot 3) 34–46 Rot 3 (wheel slot 4) 47–59 Rot 4 (wheel slot 5) 60–72 Rot 5 (wheel slot 6) 73–85 Rot 6 (wheel slot 7) 86–98 Rot 7 (wheel slot 8) 99–111 Rot 1 Shake (wheel slot 2) 112–124 Rot 2 Shake (wheel slot 3) 125–137 Rot 3 Shake (wheel slot 4) 138–150 Rot 4 Shake (wheel slot 5) 151–163 Rot 5 Shake (wheel slot 6) 164–176 Rot 6 Shake (wheel slot 7) 177–189 Rot 7 Shake (wheel slot 8) 190–221 CW Fast to Slow 222–223 Stop 224–255 cCW Slow to Fast
18	Gobo Rotation	0	0–127 Index 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
19	Gobo 2	0	0–9 Open (wheel slot 1) 10–19 Gobo 1 (wheel slot 2) 20–29 Gobo 2 (wheel slot 3) 30–39 Gobo 3 (wheel slot 4) 40–49 Gobo 4 (wheel slot 5) 50–59 Gobo 5 (wheel slot 6) 60–69 Gobo 6 (wheel slot 7) 70–79 Gobo 7 (wheel slot 8) 80–89 Gobo 8 (wheel slot 9) 90–99 Gobo 9 (wheel slot 10) 100–109 Gobo Shake 1 (wheel slot 2) 110–119 Gobo Shake 2 (wheel slot 3) 120–129 Gobo Shake 3 (wheel slot 4) 130–139 Gobo Shake 4 (wheel slot 5) 140–149 Gobo Shake 5 (wheel slot 6) 150–159 Gobo Shake 6 (wheel slot 7) 160–169 Gobo Shake 7 (wheel slot 8) 170–179 Gobo Shake 8 (wheel slot 9) 180–189 Gobo Shake 9 (wheel slot 10) 190–221 CW Fast to Slow 222–223 Stop 224–255 CCW Slow to Fast
20	Animation Wheel1	0	0–0 Open (wheel slot 1) 1–127 Index (wheel slot 2) 128–158 CW Fast to Slow 159–162 Stop 163–193 CCW Slow to Fast 194–255 Bounce
21	Iris	0	
22	Prism	0	0–127 Off (wheel slot 1) 128–255 Prism On (wheel slot 2)
23	Prism Rotation	128	0–127 Index 128–189 CCW 190–193 Stop 194–255 CW
24	Frost1	0	0–127 Off 128–255 Frost

25Ch Mode (8-Bit Control) (continued)

Ch	Function	Default	DMX values
25	Function	0	0–9 No Function 10–19 Display Off 20–29 Display On 30–39 Invert Display Off 40–49 Invert Display On 50–59 Auto Fan 60–69 High Fan 70–79 Silent Fan 80–89 Square Law 90–99 S Curve 100–109 linear 110–119 S curve 120–149 No Function 150–159 All Reset 160–169 Scan Reset 170–179 Color Reset 180–189 Gobo Reset 190–199 Other Reset 200–255 No Function

35Ch (16-Bit Control)

36 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	Position MSpeed	0	
6	Shutter / Strobe	11	0–10 Closed 11–21 Open 22–126 Strobe S>F 127–137 Open 138–201 Pulse S>F 202–212 Open 213–244 Random S>F 245–255 Open
7	Dimmer	0	0–254 Closed 255–255 Open
8	Dimmer Fine	0	Fine byte of Dimmer
9	Zoom	128	0–127 Narrow 128–254 Mid 255–255 Wide
10	Zoom Fine	0	Fine byte of Zoom
11	Focus	128	0–127 Near 128–254 Mid 255–255 Far
12	Focus Fine	0	Fine byte of Focus
13	Focus1Distance	0	0–45 Off 46–87 3m 88–129 5m 130–171 7m 172–213 10m 214–255 15m
14	Focus1Distance Fine	0	Fine byte of Focus1Distance

35Ch (16-Bit Control) (continued)

Ch	Function	Default	DMX values
15	Color Wheel	0	0–15 Open (wheel slot 1) 16–22 Open / Red (wheel slot 1) 23–29 Red (wheel slot 2) 30–36 Red / Green (wheel slot 2) 37–43 Green (wheel slot 3) 44–50 Green / Blue (wheel slot 3) 51–57 Blue (wheel slot 4) 58–64 Blue / Yellow (wheel slot 4) 65–71 Yellow (wheel slot 5) 72–78 Yellow / Amber (wheel slot 5) 79–85 Amber (wheel slot 6) 86–92 Amber / Pink (wheel slot 6) 93–99 Pink (wheel slot 7) 100–106 Pink / Magenta (wheel slot 7) 107–113 Magenta (wheel slot 8) 114–120 Magenta / Open (wheel slot 8) 121–127 Open (wheel slot 1) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
16	Color Wheel Fine	0	Fine byte of Color Wheel
17	Cyan	0	
18	Cyan Fine	0	Fine byte of Cyan
19	Magenta	0	
20	Magenta Fine	0	Fine byte of Magenta
21	Yellow	0	
22	Yellow Fine	0	Fine byte of Yellow
23	C TO	0	
24	C TO Fine	1	Fine byte of C TO
25	Gobo	0	0–7 Open (wheel slot 1) 8–20 Rot 1 (wheel slot 2) 21–33 Rot 2 (wheel slot 3) 34–46 Rot 3 (wheel slot 4) 47–59 Rot 4 (wheel slot 5) 60–72 Rot 5 (wheel slot 6) 73–85 Rot 6 (wheel slot 7) 86–98 Rot 7 (wheel slot 8) 99–111 Rot 1 Shake (wheel slot 2) 112–124 Rot 2 Shake (wheel slot 3) 125–137 Rot 3 Shake (wheel slot 4) 138–150 Rot 4 Shake (wheel slot 5) 151–163 Rot 5 Shake (wheel slot 6) 164–176 Rot 6 Shake (wheel slot 7) 177–189 Rot 7 Shake (wheel slot 8) 190–221 CW Fast to Slow 222–223 Stop 224–255 cCW Slow to Fast
26	Gobo Rotation	0	0–127 Index 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
27	Gobo Rotation Fine	0	Fine byte of Gobo Rotation

35Ch (16-Bit Control) (continued)

Ch	Function	Default	DMX values
28	Gobo 2	0	0–9 Open (wheel slot 1) 10–19 Gobo 1 (wheel slot 2) 20–29 Gobo 2 (wheel slot 3) 30–39 Gobo 3 (wheel slot 4) 40–49 Gobo 4 (wheel slot 5) 50–59 Gobo 5 (wheel slot 6) 60–69 Gobo 6 (wheel slot 7) 70–79 Gobo 7 (wheel slot 8) 80–89 Gobo 8 (wheel slot 9) 90–99 Gobo 9 (wheel slot 10) 100–109 Gobo Shake 1 (wheel slot 2) 110–119 Gobo Shake 2 (wheel slot 3) 120–129 Gobo Shake 3 (wheel slot 4) 130–139 Gobo Shake 4 (wheel slot 5) 140–149 Gobo Shake 5 (wheel slot 6) 150–159 Gobo Shake 6 (wheel slot 7) 160–169 Gobo Shake 7 (wheel slot 8) 170–179 Gobo Shake 8 (wheel slot 9) 180–189 Gobo Shake 9 (wheel slot 10) 190–221 CW Fast to Slow 222–223 Stop 224–255 CCW Slow to Fast
29	Animation Wheel1	0	0–0 Open (wheel slot 1) 1–127 Index (wheel slot 2) 128–158 CW Fast to Slow 159–162 Stop 163–193 CCW Slow to Fast 194–255 Bounce
30	Iris	0	
31	Iris Fine	0	Fine byte of Iris
32	Prism	0	0–127 Off (wheel slot 1) 128–255 Prism On (wheel slot 2)
33	Prism Rotation	128	0–127 Index 128–189 CCW 190–193 Stop 194–255 CW
34	Prism Rotation Fine	128	Fine byte of Prism Rotation
35	Frost1	0	0–127 Off 128–255 Frost
36	Function	0	0–9 No Function 10–19 Display Off 20–29 Display On 30–39 Invert Display Off 40–49 Invert Display On 50–59 Auto Fan 60–69 High Fan 70–79 Silent Fan 80–89 Square Law 90–99 S Curve 100–109 linear 110–119 S curve 120–149 No Function 150–159 All Reset 160–169 Scan Reset 170–179 Color Reset 180–189 Gobo Reset 190–199 Other Reset 200–255 No Function