Ayrton

Merak



Manufacturer	**Ayrton**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**18, 21, 28 channels**
Beam angle	**7-70°**
Pan range	**542.12°**
Tilt range	**264.04°**
Size (W × H × D)	**248 × 377 × 201 mm**
GDTF fixture type	**6B5C187E-594B-412D-A1CC-2E…**

Controls

Focus · Zoom · Extra LED colours · RGB colour mixing · Colour temperature · Colour wheel · Strobe · Dimmer · Pan and tilt · Movement speed

Safety-relevant functions

Fixture reset

DMX modes

Basic_540	18 ch
Standard_540	21 ch
Extended_540	28 ch

Basic_540

18 channels

Ch	Function	Default	DMX values
1	Pan	170	
2	Tilt	128	
3	Position MSpeed	0	0–225 max to min speed 226–235 blackout by movment 236–255 NoFeature
4	Red	0	
5	Green	0	
6	Blue	0	
7	White	255	
8	Shutter / Strobe	35	0–31 Closed 32–63 open 64–94 ShutterStrobe · min 0.5–24.2 Hz 95–95 ShutterStrobe · max 25 Hz 96–127 open 128–158 ShutterPulse · min 0.5–24.2 Hz 159–159 ShutterPulse · max 25 Hz 160–191 open 192–222 ShutterStrobeRandom · min 0.5–24.2 Hz 223–223 ShutterStrobeRandom · max 25 Hz 224–255 open
9	Dimmer	0	0–254 closed 255–255 open
10	C TO	0	
11	Color Macro1	0	0–7 No Fonction (wheel slot 1) 8–39 Red to Yellow (wheel slot 2) 40–71 Yellow to Green (wheel slot 3) 72–103 Green to cyan (wheel slot 4) 104–135 cyan to Blue (wheel slot 5) 136–167 Blue to Magenta (wheel slot 6) 168–199 Magenta to Red (wheel slot 7) 200–231 Red to White (wheel slot 8) 232–254 min 255–255 max
12	Color1Wheel Index	0	0–4 No Function (wheel slot 1) 5–9 White2700k (wheel slot 2) 10–14 White3200k (wheel slot 3) 15–19 White4200k (wheel slot 4) 20–24 White5600k (wheel slot 5) 25–29 White6500k (wheel slot 6) 30–34 White8000k (wheel slot 7) 35–39 Yellow (wheel slot 8) 40–44 Magenta (wheel slot 9) 45–49 Cyan (wheel slot 10) 50–54 salmon (wheel slot 11) 55–59 Turquoise (wheel slot 12) 60–64 Light Green (wheel slot 13) 65–69 Steel Blue (wheel slot 14) 70–74 Orange (wheel slot 15) 75–79 Straw (wheel slot 16) 80–84 Pale Lavander (wheel slot 17) 85–89 Pink (wheel slot 18) 90–94 Red (wheel slot 19) 95–99 Green (wheel slot 20) 100–104 Blue (wheel slot 21) 105–109 White (wheel slot 22) 110–255 Reserved (wheel slot 23)
13	Color Presets Dimmer	0	

Basic_540 (continued)

Ch	Function	Default	DMX values
14	Zoom	128	0–127 narrow 128–254 mid 255–255 wide
15	Beam Shaper	0	0–63 open 64–255 BeamShaper
16	Beam Shaper Pos Rotate	0	0–127 Beamshaper indexing 128–187 CW max 188–188 CW min 189–192 stop 193–254 CCW min 255–255 CCW max
17	Focus	0	
18	Fixture Global Reset	0	0–79 No Function 80–83 All motor reset 84–86 P/T motor reset 87–89 other motor reset 90–91 750W tungsten simulation 92–93 1000W tungsten simulation 94–95 1200W tungsten simulation 96–97 2500W tungsten simulation 98–99 tungsten simulation off 100–255 NoFeature

Standard_540

21 channels

Ch	Function	Default	DMX values
1	Pan	170	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–225 max to min speed 226–235 blackout by movment 236–255 NoFeature
6	Red	0	
7	Green	0	
8	Blue	0	
9	White	255	
10	Shutter / Strobe	35	0–31 Closed 32–63 open 64–94 ShutterStrobe · min 0.5–24.2 Hz 95–95 ShutterStrobe · max 25 Hz 96–127 open 128–158 ShutterPulse · min 0.5–24.2 Hz 159–159 ShutterPulse · max 25 Hz 160–191 open 192–222 ShutterStrobeRandom · min 0.5–24.2 Hz 223–223 ShutterStrobeRandom · max 25 Hz 224–255 open
11	Dimmer	0	0–254 closed 255–255 open
12	Dimmer Fine	0	Fine byte of Dimmer
13	C TO	0	

Standard_540 (continued)

Ch	Function	Default	DMX values
14	Color Macro1	0	0–7 No Fonction (wheel slot 1) 8–39 Red to Yellow (wheel slot 2) 40–71 Yellow to Green (wheel slot 3) 72–103 Green to cyan (wheel slot 4) 104–135 cyan to Blue (wheel slot 5) 136–167 Blue to Magenta (wheel slot 6) 168–199 Magenta to Red (wheel slot 7) 200–231 Red to White (wheel slot 8) 232–254 min 255–255 max
15	Color1Wheel Index	0	0–4 No Function (wheel slot 1) 5–9 White2700k (wheel slot 2) 10–14 White3200k (wheel slot 3) 15–19 White4200k (wheel slot 4) 20–24 White5600k (wheel slot 5) 25–29 White6500k (wheel slot 6) 30–34 White8000k (wheel slot 7) 35–39 Yellow (wheel slot 8) 40–44 Magenta (wheel slot 9) 45–49 Cyan (wheel slot 10) 50–54 salmon (wheel slot 11) 55–59 Turquoise (wheel slot 12) 60–64 Light Green (wheel slot 13) 65–69 Steel Blue (wheel slot 14) 70–74 Orange (wheel slot 15) 75–79 Straw (wheel slot 16) 80–84 Pale Lavander (wheel slot 17) 85–89 Pink (wheel slot 18) 90–94 Red (wheel slot 19) 95–99 Green (wheel slot 20) 100–104 Blue (wheel slot 21) 105–109 White (wheel slot 22) 110–255 Reserved (wheel slot 23)
16	Color Presets Dimmer	0	
17	Zoom	128	0–127 narrow 128–254 mid 255–255 wide
18	Beam Shaper	0	0–63 open 64–255 BeamShaper
19	Beam Shaper Pos Rotate	0	0–127 Beamshaper indexing 128–187 CW max 188–188 CW min 189–192 stop 193–254 CCW min 255–255 CCW max
20	Focus	0	
21	Fixture Global Reset	0	0–79 No Function 80–83 All motor reset 84–86 P/T motor reset 87–89 other motor reset 90–91 750W tungsten simulation 92–93 1000W tungsten simulation 94–95 1200W tungsten simulation 96–97 2500W tungsten simulation 98–99 tungsten simulation off 100–255 NoFeature

Extended_540

28 channels

Ch	Function	Default	DMX values
1	Pan	170	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Position MSpeed	0	0–225 max to min speed 226–235 blackout by movment 236–255 NoFeature
6	Red	0	
7	Red Fine	0	Fine byte of Red
8	Green	0	
9	Green Fine	0	Fine byte of Green
10	Blue	0	
11	Blue Fine	0	Fine byte of Blue
12	White	255	
13	White Fine	255	Fine byte of White
14	Shutter / Strobe	35	0–31 Closed 32–63 open 64–94 ShutterStrobe · min 0.5–24.2 Hz 95–95 ShutterStrobe · max 25 Hz 96–127 open 128–158 ShutterPulse · min 0.5–24.2 Hz 159–159 ShutterPulse · max 25 Hz 160–191 open 192–222 ShutterStrobeRandom · min 0.5–24.2 Hz 223–223 ShutterStrobeRandom · max 25 Hz 224–255 open
15	Dimmer	0	0–254 closed 255–255 open
16	Dimmer Fine	0	Fine byte of Dimmer
17	C TO	0	
18	Color Macro1	0	0–7 No Fonction (wheel slot 1) 8–39 Red to Yellow (wheel slot 2) 40–71 Yellow to Green (wheel slot 3) 72–103 Green to cyan (wheel slot 4) 104–135 cyan to Blue (wheel slot 5) 136–167 Blue to Magenta (wheel slot 6) 168–199 Magenta to Red (wheel slot 7) 200–231 Red to White (wheel slot 8) 232–254 min 255–255 max

Extended_540 (continued)

Ch	Function	Default	DMX values
19	Color1Wheel Index	0	0–4 No Function (wheel slot 1) 5–9 White2700k (wheel slot 2) 10–14 White3200k (wheel slot 3) 15–19 White4200k (wheel slot 4) 20–24 White5600k (wheel slot 5) 25–29 White6500k (wheel slot 6) 30–34 White8000k (wheel slot 7) 35–39 Yellow (wheel slot 8) 40–44 Magenta (wheel slot 9) 45–49 Cyan (wheel slot 10) 50–54 salmon (wheel slot 11) 55–59 Turquoise (wheel slot 12) 60–64 Light Green (wheel slot 13) 65–69 Steel Blue (wheel slot 14) 70–74 Orange (wheel slot 15) 75–79 Straw (wheel slot 16) 80–84 Pale Lavander (wheel slot 17) 85–89 Pink (wheel slot 18) 90–94 Red (wheel slot 19) 95–99 Green (wheel slot 20) 100–104 Blue (wheel slot 21) 105–109 White (wheel slot 22) 110–255 Reserved (wheel slot 23)
20	Color Presets Dimmer	0	
21	Zoom	128	0–127 narrow 128–254 mid 255–255 wide
22	Zoom Fine	0	Fine byte of Zoom
23	Beam Shaper	0	0–63 open 64–255 BeamShaper
24	Beam Shaper Pos Rotate	0	0–127 Beamshaper indexing 128–188 CW max 189–189 CW min 190–193 stop 194–254 CCW min 255–255 CCW max
25	Beam Shaper Pos Rotate Fine	0	Fine byte of Beam Shaper Pos Rotate
26	Focus	0	
27	Focus Fine	0	Fine byte of Focus
28	Fixture Global Reset	0	0–79 No Function 80–83 All motor reset 84–86 P/T motor reset 87–89 other motor reset 90–91 750W tungsten simulation 92–93 1000W tungsten simulation 94–95 1200W tungsten simulation 96–97 2500W tungsten simulation 98–99 tungsten simulation off 100–255 NoFeature