JB Lighting

Varyscan P7



Manufacturer	**JB Lighting**
Type	**Profile spot**
DMX modes	**3**
DMX footprint	**24, 26, 31 channels**
Beam angle	**8-48°**
Pan range	**433.6°**
Tilt range	**280°**
Size (W × H × D)	**300 × 300 × 200 mm**
GDTF fixture type	**2D9D4CF5-3EAC-5DE3-A494-8…**

Controls

Focus · Frost · Iris · Prism · Prism rotation · Zoom · CMY colour mixing · Colour wheel · Effect speed · Strobe · Dimmer · Pan and tilt · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Fixture reset · Built-in effect programmes

DMX modes

M3	24 ch
M1	26 ch
M2	31 ch

M3

24 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	255	0–7 Dimmer fade out with Fader - slow -> fast (reaction tim… 8–31 No function (unprinted, assumed) 32–39 Dimmer fade out with Fader - slow -> fast 40–63 No function (unprinted, assumed) 64–71 Dimmer fade out with Fader - slow -> fast 72–95 No function (unprinted, assumed) 96–103 Dimmer fade out with Fader - slow -> fast 104–127 No function (unprinted, assumed) 128–135 Dimmer fade out with Fader - slow -> fast (reactio… 136–207 No function (unprinted, assumed) 208–215 Camera mode, 50Hz (after 2 seconds) 216–223 Camera mode, 60Hz (after 2 seconds) 224–231 Camera mode, FLEX (after 2 seconds) 232–239 Safe 240–247 Reset (after 2 seconds) 248–255 Safe
6	Shutter / Strobe	16	0–15 Shutter closed 16–95 Shutter open 96–110 Shutter pulse opening >20Hz (fast to slow) 111–111 Shutter open 112–125 Fade effect with dimmer (dimmer effect slow - dim… 126–126 Shutter open 127–127 Shutter closed 128–142 Shutter pulse opening <20Hz (fast to slow) 143–143 Shutter open 144–158 Shutter pulse closing (fast to slow) 159–159 Shutter closed 160–174 Shutter fade, 0% (fast to slow; pulse effect) 175–175 Shutter open 176–190 Shutter fade, 100% (fast to slow; pulse effect) 191–191 Shutter closed 192–206 Shutter random 100% (fast to slow) 207–207 Shutter open 208–222 Shutter random 0% (fast to slow) 223–223 Shutter closed 224–238 Shutter random fade 0% (fast to slow) 239–239 Shutter open 240–254 Shutter random fade 100% (fast to slow) 255–255 Shutter open
7	Dimmer	0	
8	Focus	0	
9	Zoom	0	

M3 (continued)

Ch	Function	Default	DMX values
10	Iris	0	0–126 Iris open - closed 127–127 Iris closed 128–142 Iris periodic opening pulse (fast to slow) 143–143 Iris open 144–158 Iris periodic closing pulse (fast to slow) 159–159 Iris closed 160–174 Iris periodic snap open / ramp shut (fast to slow) 175–175 Iris open 176–190 Iris periodic ramp open / snap shut (fast to slow) 191–191 Iris closed 192–206 Iris random opening pulse (fast to slow) 207–207 Iris open 208–222 Iris random closing pulse (fast to slow) 223–223 Iris closed 224–238 Iris random snap open / ramp shut (fast to slow) 239–239 Iris open 240–254 Iris random ramp open / snap shut (fast to slow) 255–255 Iris open
11	Gobo	0	0–7 Gobo 0 (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 8 (wheel slot 9) 72–191 Gobo 9 (wheel slot 10) 192–223 Gobo wheel spin right (fast - slow) 224–255 Gobo wheel spin left (slow - fast)
12	Gobo 2	0	0–7 Gobo 0 (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) 48–255 Gobo 6 (wheel slot 7)
13	Gobo Rotation 2	0	0–191 Gobo positioning (0° - 540°) 192–222 Gobo rotation right 223–224 Gobo rotation stop 225–255 Gobo rotation left

M3 (continued)

Ch	Function	Default	DMX values
14	Color Wheel	0	0–1 White (wheel slot 1) 2–3 White / red 4–5 Red (wheel slot 2) 6–7 Red / yellow 8–9 Yellow (wheel slot 3) 10–11 Yellow / magenta 12–13 Magenta (wheel slot 4) 14–15 Magenta / green 16–17 Green (wheel slot 5) 18–19 Green / amber 20–21 Amber (wheel slot 6) 22–23 Amber / dark blue 24–25 Dark blue (wheel slot 7) 26–27 Dark blue / turquoise 28–29 Turquoise (wheel slot 8) 30–31 Turquoise / pink 32–33 Pink (wheel slot 9) 34–35 Pink / CTO 36–37 CTO (wheel slot 10) 38–39 CTO / white 40–63 No function (unprinted, assumed) 64–191 White (wheel slot 1) 192–223 Color wheel spin right (fast to slow) 224–255 Color wheel spin left (slow to fast)
15	Cyan	0	
16	Magenta	0	
17	Yellow	0	
18	Effect 2	0	0–0 Sparkle effect off 1–255 Sparkle effect intensity (minimum - maximum)
19	Effect Speed 2	0	0–31 Sparkle effect faded (slow - fast) 32–63 Sparkle effect switched (slow - fast) 64–255 Repeat of fade and switch block
20	Prism	0	0–7 Prism open (wheel slot 1) 8–255 Prism (wheel slot 2)
21	Prism Rotation	0	0–191 Prism positioning (0° - 540°) 192–222 Prism rotation right 223–224 Prism rotation stop 225–255 Prism rotation left
22	Frost1	0	0–126 Frost 0-100% 127–127 Frost 100% 128–142 Frost periodic opening pulse (fast to slow) 143–143 Frost 0% 144–158 Frost periodic closing pulse (fast to slow) 159–159 Frost 100% 160–174 Frost periodic ramp in / snap out (fast to slow) 175–175 Frost 0% 176–190 Frost periodic snap in / ramp out (fast to slow) 191–191 Frost 100% 192–206 Frost random opening pulse (fast to slow) 207–207 Frost 0% 208–222 Frost random closing pulse (fast to slow) 223–223 Frost 100% 224–238 Frost random ramp in / snap out (fast to slow) 239–239 Frost 0% 240–254 Frost random snap in / ramp out (fast to slow) 255–255 Aperture for logo projection
23	Effect	0	0–0 Macro off 1–255 Macro 001 - Macro 255

M3 (continued)

Ch	Function	Default	DMX values
24	Blackout Mode	0	0–95 No function 96–127 Blackout at pan/tilt 128–159 Blackout at gobo, color, prism, CMY, iris, frost 160–191 Blackout at gobo, color, prism, CMY, iris, frost, zoo... 192–223 Blackout at gobo, color, prism, CMY, iris, frost, pan... 224–255 Blackout at gobo, color, prism, CMY, iris, frost, zoo...

M1

26 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	255	0–7 Dimmer fade out with Fader - slow -> fast (reaction tim... 8–31 No function (unprinted, assumed) 32–39 Dimmer fade out with Fader - slow -> fast 40–63 No function (unprinted, assumed) 64–71 Dimmer fade out with Fader - slow -> fast 72–95 No function (unprinted, assumed) 96–103 Dimmer fade out with Fader - slow -> fast 104–127 No function (unprinted, assumed) 128–135 Dimmer fade out with Fader - slow -> fast (reactio... 136–207 No function (unprinted, assumed) 208–215 Camera mode, 50Hz (after 2 seconds) 216–223 Camera mode, 60Hz (after 2 seconds) 224–231 Camera mode, FLEX (after 2 seconds) 232–239 Safe 240–247 Reset (after 2 seconds) 248–255 Safe
6	Shutter / Strobe	16	0–15 Shutter closed 16–95 Shutter open 96–110 Shutter pulse opening >20Hz (fast to slow) 111–111 Shutter open 112–125 Fade effect with dimmer (dimmer effect slow - dim... 126–126 Shutter open 127–127 Shutter closed 128–142 Shutter pulse opening <20Hz (fast to slow) 143–143 Shutter open 144–158 Shutter pulse closing (fast to slow) 159–159 Shutter closed 160–174 Shutter fade, 0% (fast to slow; pulse effect) 175–175 Shutter open 176–190 Shutter fade, 100% (fast to slow; pulse effect) 191–191 Shutter closed 192–206 Shutter random 100% (fast to slow) 207–207 Shutter open 208–222 Shutter random 0% (fast to slow) 223–223 Shutter closed 224–238 Shutter random fade 0% (fast to slow) 239–239 Shutter open 240–254 Shutter random fade 100% (fast to slow) 255–255 Shutter open
7	Dimmer	0	
8	Focus	0	
9	Zoom	0	

M1 (continued)

Ch	Function	Default	DMX values
10	Iris	0	0–126 Iris open - closed 127–127 Iris closed 128–142 Iris periodic opening pulse (fast to slow) 143–143 Iris open 144–158 Iris periodic closing pulse (fast to slow) 159–159 Iris closed 160–174 Iris periodic snap open / ramp shut (fast to slow) 175–175 Iris open 176–190 Iris periodic ramp open / snap shut (fast to slow) 191–191 Iris closed 192–206 Iris random opening pulse (fast to slow) 207–207 Iris open 208–222 Iris random closing pulse (fast to slow) 223–223 Iris closed 224–238 Iris random snap open / ramp shut (fast to slow) 239–239 Iris open 240–254 Iris random ramp open / snap shut (fast to slow) 255–255 Iris open
11	Gobo	0	0–7 Gobo 0 (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 8 (wheel slot 9) 72–191 Gobo 9 (wheel slot 10) 192–223 Gobo wheel spin right (fast - slow) 224–255 Gobo wheel spin left (slow - fast)
12	Gobo 2	0	0–7 Gobo 0 (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) 48–255 Gobo 6 (wheel slot 7)
13	Gobo Rotation 2	0	0–191 Gobo positioning (0° - 540°) 192–222 Gobo rotation right 223–224 Gobo rotation stop 225–255 Gobo rotation left

M1 (continued)

Ch	Function	Default	DMX values
14	Color Wheel	0	0–1 White (wheel slot 1) 2–3 White / red 4–5 Red (wheel slot 2) 6–7 Red / yellow 8–9 Yellow (wheel slot 3) 10–11 Yellow / magenta 12–13 Magenta (wheel slot 4) 14–15 Magenta / green 16–17 Green (wheel slot 5) 18–19 Green / amber 20–21 Amber (wheel slot 6) 22–23 Amber / dark blue 24–25 Dark blue (wheel slot 7) 26–27 Dark blue / turquoise 28–29 Turquoise (wheel slot 8) 30–31 Turquoise / pink 32–33 Pink (wheel slot 9) 34–35 Pink / CTO 36–37 CTO (wheel slot 10) 38–39 CTO / white 40–63 No function (unprinted, assumed) 64–191 White (wheel slot 1) 192–223 Color wheel spin right (fast to slow) 224–255 Color wheel spin left (slow to fast)
15	Cyan	0	
16	Magenta	0	
17	Yellow	0	
18	Effect 2	0	0–0 Sparkle effect off 1–255 Sparkle effect intensity (minimum - maximum)
19	Effect Speed 2	0	0–31 Sparkle effect faded (slow - fast) 32–63 Sparkle effect switched (slow - fast) 64–255 Repeat of fade and switch block
20	Prism	0	0–7 Prism open (wheel slot 1) 8–255 Prism (wheel slot 2)
21	Prism Rotation	0	0–191 Prism positioning (0° - 540°) 192–222 Prism rotation right 223–224 Prism rotation stop 225–255 Prism rotation left
22	Frost1	0	0–126 Frost 0-100% 127–127 Frost 100% 128–142 Frost periodic opening pulse (fast to slow) 143–143 Frost 0% 144–158 Frost periodic closing pulse (fast to slow) 159–159 Frost 100% 160–174 Frost periodic ramp in / snap out (fast to slow) 175–175 Frost 0% 176–190 Frost periodic snap in / ramp out (fast to slow) 191–191 Frost 100% 192–206 Frost random opening pulse (fast to slow) 207–207 Frost 0% 208–222 Frost random closing pulse (fast to slow) 223–223 Frost 100% 224–238 Frost random ramp in / snap out (fast to slow) 239–239 Frost 0% 240–254 Frost random snap in / ramp out (fast to slow) 255–255 Aperture for logo projection
23	Effect	0	0–0 Macro off 1–255 Macro 001 - Macro 255

M1 (continued)

Ch	Function	Default	DMX values
24	Position MSpeed	0	0–3 Effects in real time 4–255 Effects delayed (fast to slow)
25	Global MSpeed	0	0–3 Effects in real time 4–255 Effects delayed (fast to slow)
26	Blackout Mode	0	0–95 No function 96–127 Blackout at pan/tilt 128–159 Blackout at gobo, color, prism, CMY, iris, frost 160–191 Blackout at gobo, color, prism, CMY, iris, frost, zoo… 192–223 Blackout at gobo, color, prism, CMY, iris, frost, pan… 224–255 Blackout at gobo, color, prism, CMY, iris, frost, zoo…

M2

31 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	0	Fine byte of Tilt
5	Control1	255	0–7 Dimmer fade out with Fader - slow -> fast (reaction tim… 8–31 No function (unprinted, assumed) 32–39 Dimmer fade out with Fader - slow -> fast 40–63 No function (unprinted, assumed) 64–71 Dimmer fade out with Fader - slow -> fast 72–95 No function (unprinted, assumed) 96–103 Dimmer fade out with Fader - slow -> fast 104–127 No function (unprinted, assumed) 128–135 Dimmer fade out with Fader - slow -> fast (reactio… 136–207 No function (unprinted, assumed) 208–215 Camera mode, 50Hz (after 2 seconds) 216–223 Camera mode, 60Hz (after 2 seconds) 224–231 Camera mode, FLEX (after 2 seconds) 232–239 Safe 240–247 Reset (after 2 seconds) 248–255 Safe
6	Shutter / Strobe	16	0–15 Shutter closed 16–95 Shutter open 96–110 Shutter pulse opening >20Hz (fast to slow) 111–111 Shutter open 112–125 Fade effect with dimmer (dimmer effect slow - dim… 126–126 Shutter open 127–127 Shutter closed 128–142 Shutter pulse opening <20Hz (fast to slow) 143–143 Shutter open 144–158 Shutter pulse closing (fast to slow) 159–159 Shutter closed 160–174 Shutter fade, 0% (fast to slow; pulse effect) 175–175 Shutter open 176–190 Shutter fade, 100% (fast to slow; pulse effect) 191–191 Shutter closed 192–206 Shutter random 100% (fast to slow) 207–207 Shutter open 208–222 Shutter random 0% (fast to slow) 223–223 Shutter closed 224–238 Shutter random fade 0% (fast to slow) 239–239 Shutter open 240–254 Shutter random fade 100% (fast to slow) 255–255 Shutter open
7	Dimmer	0	

M2 (continued)

Ch	Function	Default	DMX values
8	Focus	0	
9	Zoom	0	
10	Iris	0	0–126 Iris open - closed 127–127 Iris closed 128–142 Iris periodic opening pulse (fast to slow) 143–143 Iris open 144–158 Iris periodic closing pulse (fast to slow) 159–159 Iris closed 160–174 Iris periodic snap open / ramp shut (fast to slow) 175–175 Iris open 176–190 Iris periodic ramp open / snap shut (fast to slow) 191–191 Iris closed 192–206 Iris random opening pulse (fast to slow) 207–207 Iris open 208–222 Iris random closing pulse (fast to slow) 223–223 Iris closed 224–238 Iris random snap open / ramp shut (fast to slow) 239–239 Iris open 240–254 Iris random ramp open / snap shut (fast to slow) 255–255 Iris open
11	Gobo	0	0–7 Gobo 0 (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 8 (wheel slot 9) 72–191 Gobo 9 (wheel slot 10) 192–223 Gobo wheel spin right (fast - slow) 224–255 Gobo wheel spin left (slow - fast)
12	Gobo 2	0	0–7 Gobo 0 (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) 48–255 Gobo 6 (wheel slot 7)
13	Gobo Rotation 2	0	0–191 Gobo positioning (0° - 540°) 192–222 Gobo rotation right 223–224 Gobo rotation stop 225–255 Gobo rotation left
14	Gobo Rotation 2 Fine	0	Fine byte of Gobo Rotation 2

M2 (continued)

Ch	Function	Default	DMX values
15	Color Wheel	0	0–1 White (wheel slot 1) 2–3 White / red 4–5 Red (wheel slot 2) 6–7 Red / yellow 8–9 Yellow (wheel slot 3) 10–11 Yellow / magenta 12–13 Magenta (wheel slot 4) 14–15 Magenta / green 16–17 Green (wheel slot 5) 18–19 Green / amber 20–21 Amber (wheel slot 6) 22–23 Amber / dark blue 24–25 Dark blue (wheel slot 7) 26–27 Dark blue / turquoise 28–29 Turquoise (wheel slot 8) 30–31 Turquoise / pink 32–33 Pink (wheel slot 9) 34–35 Pink / CTO 36–37 CTO (wheel slot 10) 38–39 CTO / white 40–63 No function (unprinted, assumed) 64–191 White (wheel slot 1) 192–223 Color wheel spin right (fast to slow) 224–255 Color wheel spin left (slow to fast)
16	Cyan	0	
17	Cyan Fine	0	Fine byte of Cyan
18	Magenta	0	
19	Magenta Fine	0	Fine byte of Magenta
20	Yellow	0	
21	Yellow Fine	0	Fine byte of Yellow
22	Effect 2	0	0–0 Sparkle effect off 1–255 Sparkle effect intensity (minimum - maximum)
23	Effect Speed 2	0	0–31 Sparkle effect faded (slow - fast) 32–63 Sparkle effect switched (slow - fast) 64–255 Repeat of fade and switch block
24	Prism	0	0–7 Prism open (wheel slot 1) 8–255 Prism (wheel slot 2)
25	Prism Rotation	0	0–191 Prism positioning (0° - 540°) 192–222 Prism rotation right 223–224 Prism rotation stop 225–255 Prism rotation left
26	Prism Rotation Fine	0	Fine byte of Prism Rotation

M2 (continued)

Ch	Function	Default	DMX values
27	Frost1	0	0–126 Frost 0-100% 127–127 Frost 100% 128–142 Frost periodic opening pulse (fast to slow) 143–143 Frost 0% 144–158 Frost periodic closing pulse (fast to slow) 159–159 Frost 100% 160–174 Frost periodic ramp in / snap out (fast to slow) 175–175 Frost 0% 176–190 Frost periodic snap in / ramp out (fast to slow) 191–191 Frost 100% 192–206 Frost random opening pulse (fast to slow) 207–207 Frost 0% 208–222 Frost random closing pulse (fast to slow) 223–223 Frost 100% 224–238 Frost random ramp in / snap out (fast to slow) 239–239 Frost 0% 240–254 Frost random snap in / ramp out (fast to slow) 255–255 Aperture for logo projection
28	Effect	0	0–0 Macro off 1–255 Macro 001 - Macro 255
29	Position MSpeed	0	0–3 Effects in real time 4–255 Effects delayed (fast to slow)
30	Global MSpeed	0	0–3 Effects in real time 4–255 Effects delayed (fast to slow)
31	Blackout Mode	0	0–95 No function 96–127 Blackout at pan/tilt 128–159 Blackout at gobo, color, prism, CMY, iris, frost 160–191 Blackout at gobo, color, prism, CMY, iris, frost, zoo… 192–223 Blackout at gobo, color, prism, CMY, iris, frost, pan… 224–255 Blackout at gobo, color, prism, CMY, iris, frost, zoo…

Fixture model: gdtf-jb-lighting-varyscan-p7-2611090802
Original HitLight geometry, scripted locally by the HitLight fixture agent from published dimensions and product photographs. No manufacture…
Creator: HitLight