Varytec

Trident R10



Manufacturer	**Varytec**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**15, 17, 24 channels**
Beam angle	**3.8-45°**
Pan range	**540°**
Tilt range	**250°**
Size (W × H × D)	**238 × 388 × 202 mm**
GDTF fixture type	**92BD22D5-D13C-4746-9AFA-21…**

Controls

Focus · Prism · Prism rotation · Zoom · Colour wheel · Effect speed · Strobe · Dimmer · Pan and tilt · Movement speed · Gobos · Gobo rotation

Safety-relevant functions

Lamp on and off · Fixture reset · Built-in effect programmes

DMX modes

Mode 1 Compressed Mode (15 Channels)	15 ch
Mode 2 Normal Mode (17 Channels)	17 ch
Mode 3 Extended Mode (24 Channels)	24 ch

Mode 1 Compressed Mode (15 Channels)

15 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	Position MSpeed	0	0–254 Max Speed 255–255 Min Speed
6	Color Wheel	0	0–9 White (wheel slot 1) 10–19 Red (wheel slot 2) 20–29 Deep Amber (wheel slot 3) 30–39 No Colour Blue (wheel slot 4) 40–49 Dark green (wheel slot 5) 50–59 Green (wheel slot 6) 60–69 Cyan (wheel slot 7) 70–79 Orange (wheel slot 8) 80–89 Yellow (wheel slot 9) 90–99 Magenta (wheel slot 10) 100–109 Blue (wheel slot 11) 110–119 CT 3200K (wheel slot 12) 120–129 CT 3200K Eight Five (wheel slot 13) 130–139 CT Lavender (wheel slot 14) 140–149 UV (wheel slot 15) 150–199 spin >>> slow 200–200 spin >>> fast 201–204 Color wheel rotation stop 205–254 spin <<< fast 255–255 spin <<< slow
7	Gobo	0	0–4 Open/Hole (wheel slot 1) 5–9 Gobo 1 (wheel slot 2) 10–14 Gobo 2 (wheel slot 3) 15–19 Gobo 3 (wheel slot 4) 20–24 Gobo 4 (wheel slot 5) 25–29 Gobo 5 (wheel slot 6) 30–34 Gobo 6 (wheel slot 7) 35–39 Gobo 7 (wheel slot 8) 40–44 Gobo 8 (wheel slot 9) 45–49 Gobo 9 (wheel slot 10) 50–54 Gobo 1 (wheel slot 2) 55–59 Gobo 2 (wheel slot 3) 60–64 Gobo 3 (wheel slot 4) 65–69 Gobo 4 (wheel slot 5) 70–74 Gobo 5 (wheel slot 6) 75–79 Gobo 6 (wheel slot 7) 80–84 Gobo 7 (wheel slot 8) 85–89 Gobo 8 (wheel slot 9) 90–94 Gobo 9 (wheel slot 10) 95–95 CW gobo wheel rotation fast 96–170 CW gobo wheel rotation from fast to slow 171–179 Gobo wheel rotation stop 180–180 CCW gobo wheel rotation slow 181–255 CCW gobo wheel rotation from slow to fast
8	Gobo Rotation	0	0–127 Indexing Gobo 0-360Grad 128–178 Gobo rotation CW slow to fast 179–204 Gobo rotation Stop 205–255 Gobo rotation CCW slow to fast

Mode 1 Compressed Mode (15 Channels) (continued)

Ch	Function	Default	DMX values
9	Gobo 2	0	0–4 Open/Hole (wheel slot 1) 5–9 Gobo 1 (wheel slot 2) 10–14 Gobo 2 (wheel slot 3) 15–19 Gobo 3 (wheel slot 4) 20–24 Gobo 4 (wheel slot 5) 25–29 Gobo 5 (wheel slot 6) 30–34 Gobo 6 (wheel slot 7) 35–39 Gobo 7 (wheel slot 8) 40–44 Gobo 8 (wheel slot 9) 45–49 Gobo 9 (wheel slot 10) 50–54 Gobo 10 (wheel slot 11) 55–59 Gobo 11 (wheel slot 12) 60–64 Gobo 12 (wheel slot 13) 65–69 Gobo 13 (wheel slot 14) 70–74 Gobo 14 (wheel slot 15) 75–79 Gobo 15 (wheel slot 16) 80–84 Gobo 16 (wheel slot 17) 85–89 Gobo 17 (wheel slot 18) 90–94 Gobo 1 - Shaking (wheel slot 2) 95–99 Gobo 2 - Shaking (wheel slot 3) 100–104 Gobo 3 - Shaking (wheel slot 4) 105–109 Gobo 4 - Shaking (wheel slot 5) 110–114 Gobo 5 - Shaking (wheel slot 6) 115–119 Gobo 6 - Shaking (wheel slot 7) 120–124 Gobo 7 - Shaking (wheel slot 8) 125–129 Gobo 8 - Shaking (wheel slot 9) 130–134 Gobo 9 - Shaking (wheel slot 10) 135–139 Gobo 10- Shaking (wheel slot 11) 140–144 Gobo 11- Shaking (wheel slot 12) 145–149 Gobo 12- Shaking (wheel slot 13) 150–154 Gobo 13- Shaking (wheel slot 14) 155–159 Gobo 14- Shaking (wheel slot 15) 160–164 Gobo 15- Shaking (wheel slot 16) 165–169 Gobo 16- Shaking (wheel slot 17) 170–174 Gobo 17- Shaking (wheel slot 18) 175–175 CW gobo wheel rotation fast 176–209 CW gobo wheel rotation from fast to slow 210–210 CW gobo wheel rotation slow 211–224 Gobo wheel rotation Stop 225–225 CCW gobo wheel rotation slow 226–254 CCW gobo wheel rotation from slow to fast 255–255 CCW gobo wheel rotation fast
10	Shutter / Strobe	20	0–19 Shutter Closed 20–39 Shutter Open 40–40 Strobe slow 41–58 Strobe slow to fast 59–59 Strobe fast 60–79 Shutter Open 80–80 Open pulsing slow 81–98 Open pulsing slow to fast 99–99 Open pulsing fast 100–119 Shutter Open 120–120 Shutter1 Strobe Pulse Close · Close pulsing slow 1... 121–138 Shutter1 Strobe Pulse Close · Close pulsing slow to... 139–139 Shutter1 Strobe Pulse Close · Close pulsing fast 0.... 140–140 Strobe slow 141–248 Strobo slow to fast 249–249 Strobe fast 250–255 Shutter Open
11	Dimmer	0	

Mode 1 Compressed Mode (15 Channels) (continued)

Ch	Function	Default	DMX values
12	Focus	128	0–0 Focus far 1–254 Focus from far to near 255–255 Focus near
13	Zoom	128	0–127 Zoom min 128–254 Zoom medium 255–255 Zoom max
14	Prism	0	0–19 Open position (hole) (wheel slot 1) 20–99 Indexing Prisma 360Grad (wheel slot 2) 100–149 3 - facet prism - rotation cw (wheel slot 2) 150–159 3 - facet prism stop on every position (wheel slot 2) 160–255 3 - facet prism - rotation ccw (wheel slot 2)
15	Control1	0	0–33 No function 34–36 Lamp OFF after 3 seconds 37–79 No function 80–89 Lamp ON after 3 seconds 90–99 No function 100–109 Motor reset after 3 seconds 110–129 No function 130–139 Fixture reset after 3 seconds 140–255 No function

Mode 2 Normal Mode (17 Channels)

17 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	Position MSpeed	0	0–254 Max Speed 255–255 Min Speed
6	Color Wheel	0	0–9 White (wheel slot 1) 10–19 Red (wheel slot 2) 20–29 Deep Amber (wheel slot 3) 30–39 No Colour Blue (wheel slot 4) 40–49 Dark green (wheel slot 5) 50–59 Green (wheel slot 6) 60–69 Cyan (wheel slot 7) 70–79 Orange (wheel slot 8) 80–89 Yellow (wheel slot 9) 90–99 Magenta (wheel slot 10) 100–109 Blue (wheel slot 11) 110–119 CT 3200K (wheel slot 12) 120–129 CT 3200K Eight Five (wheel slot 13) 130–139 CT Lavender (wheel slot 14) 140–149 UV (wheel slot 15) 150–200 CW rainbow effect from slow to fast 201–204 Stop on every position 205–255 CCW rainbow effect from fast to slow

Mode 2 Normal Mode (17 Channels) (continued)

Ch	Function	Default	DMX values
7	Gobo	0	0–4 Open/Hole (wheel slot 1) 5–9 Gobo 1 (wheel slot 2) 10–14 Gobo 2 (wheel slot 3) 15–19 Gobo 3 (wheel slot 4) 20–24 Gobo 4 (wheel slot 5) 25–29 Gobo 5 (wheel slot 6) 30–34 Gobo 6 (wheel slot 7) 35–39 Gobo 7 (wheel slot 8) 40–44 Gobo 8 (wheel slot 9) 45–49 Gobo 9 (wheel slot 10) 50–54 Gobo 1 (wheel slot 2) 55–59 Gobo 2 (wheel slot 3) 60–64 Gobo 3 (wheel slot 4) 65–69 Gobo 4 (wheel slot 5) 70–74 Gobo 5 (wheel slot 6) 75–79 Gobo 6 (wheel slot 7) 80–84 Gobo 7 (wheel slot 8) 85–89 Gobo 8 (wheel slot 9) 90–94 Gobo 9 (wheel slot 10) 95–95 CW gobo wheel rotation fast 96–170 CW gobo wheel rotation from fast to slow 171–179 Gobo wheel rotation stop 180–180 CCW gobo wheel rotation slow 181–255 CCW gobo wheel rotation from slow to fast
8	Gobo Rotation	0	0–127 Indexing Gobo 0-360Grad 128–178 Gobo rotation CW slow to fast 179–204 Gobo rotation Stop 205–255 Gobo rotation CCW slow to fast

Mode 2 Normal Mode (17 Channels) (continued)

Ch	Function	Default	DMX values
9	Gobo 2	0	0–4 Open/Hole (wheel slot 1) 5–9 Gobo 1 (wheel slot 2) 10–14 Gobo 2 (wheel slot 3) 15–19 Gobo 3 (wheel slot 4) 20–24 Gobo 4 (wheel slot 5) 25–29 Gobo 5 (wheel slot 6) 30–34 Gobo 6 (wheel slot 7) 35–39 Gobo 7 (wheel slot 8) 40–44 Gobo 8 (wheel slot 9) 45–49 Gobo 9 (wheel slot 10) 50–54 Gobo 10 (wheel slot 11) 55–59 Gobo 11 (wheel slot 12) 60–64 Gobo 12 (wheel slot 13) 65–69 Gobo 13 (wheel slot 14) 70–74 Gobo 14 (wheel slot 15) 75–79 Gobo 15 (wheel slot 16) 80–84 Gobo 16 (wheel slot 17) 85–89 Gobo 17 (wheel slot 18) 90–94 Gobo 1 - Shaking (wheel slot 2) 95–99 Gobo 2 - Shaking (wheel slot 3) 100–104 Gobo 3 - Shaking (wheel slot 4) 105–109 Gobo 4 - Shaking (wheel slot 5) 110–114 Gobo 5 - Shaking (wheel slot 6) 115–119 Gobo 6 - Shaking (wheel slot 7) 120–124 Gobo 7 - Shaking (wheel slot 8) 125–129 Gobo 8 - Shaking (wheel slot 9) 130–134 Gobo 9 - Shaking (wheel slot 10) 135–139 Gobo 10- Shaking (wheel slot 11) 140–144 Gobo 11- Shaking (wheel slot 12) 145–149 Gobo 12- Shaking (wheel slot 13) 150–154 Gobo 13- Shaking (wheel slot 14) 155–159 Gobo 14- Shaking (wheel slot 15) 160–164 Gobo 15- Shaking (wheel slot 16) 165–169 Gobo 16- Shaking (wheel slot 17) 170–174 Gobo 17- Shaking (wheel slot 18) 175–175 CW gobo wheel rotation fast 176–209 CW gobo wheel rotation from fast to slow 210–210 CW gobo wheel rotation slow 211–224 Gobo wheel rotation Stop 225–225 CCW gobo wheel rotation slow 226–254 CCW gobo wheel rotation from slow to fast 255–255 CCW gobo wheel rotation fast
10	Shutter / Strobe	20	0–19 Shutter Closed 20–39 Shutter Open 40–40 Strobe slow 41–58 Strobe slow to fast 59–59 Strobe fast 60–79 Shutter Open (1) 80–80 Open pulsing slow 81–98 Open pulsing slow to fast 99–99 Open pulsing fast 100–119 Shutter 1 (open) 120–120 Shutter1 Strobe Pulse Close · Close pulsing slow 0.... 121–138 Shutter1 Strobe Pulse Close · Close pulsing slow to... 139–139 Shutter1 Strobe Pulse Close · Close pulsing fast 10 ... 140–140 Strobe slow 141–248 Strobo slow to fast 249–249 Strobe fast 250–255 Shutter Open (3)
11	Dimmer	0	

Mode 2 Normal Mode (17 Channels) (continued)

Ch	Function	Default	DMX values
12	Focus	128	0–0 Focus far 1–254 Focus from far to near 255–255 Focus near
13	Zoom	128	0–0 Zoom max 1–254 Zoom from max to min 255–255 Zoom min
14	Prism	0	0–19 Open position (hole) (wheel slot 1) 20–99 Indexing Prisma 360Grad (wheel slot 2) 100–149 3 - facet prism - rotation cw (wheel slot 2) 150–159 3 - facet prism stop on every position (wheel slot 2) 160–209 3 - facet prism - rotation ccw (wheel slot 2) 210–255 3 - facet prism - rotation cw/ccW (wheel slot 2)
15	Control1	0	0–33 No function 34–36 Lamp OFF after 3 seconds 37–79 No function 80–89 Lamp ON after 3 seconds 90–99 No function 100–109 Motor reset after 3 seconds 110–129 No function 130–139 Fixture reset after 3 seconds 140–255 No function
16	Effect	0	0–0 Effects off 1–255 Effects (1-255)
17	Effect Speed	0	

Mode 3 Extended Mode (24 Channels)

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	Position MSpeed	0	0–254 Max Speed 255–255 Min Speed
6	Color Wheel	0	0–9 White (wheel slot 1) 10–19 Red (wheel slot 2) 20–29 Deep Amber (wheel slot 3) 30–39 No Colour Blue (wheel slot 4) 40–49 Dark green (wheel slot 5) 50–59 Green (wheel slot 6) 60–69 Cyan (wheel slot 7) 70–79 Orange (wheel slot 8) 80–89 Yellow (wheel slot 9) 90–99 Magenta (wheel slot 10) 100–109 Blue (wheel slot 11) 110–119 CT 3200K (wheel slot 12) 120–129 CT 3200K Eight Five (wheel slot 13) 130–139 CT Lavender (wheel slot 14) 140–149 UV (wheel slot 15) 150–200 CW rainbow effect from slow to fast 201–204 Stop on every position 205–255 CCW rainbow effect from fast to slow

Mode 3 Extended Mode (24 Channels) (continued)

Ch	Function	Default	DMX values
7	Gobo	0	0–4 Open/Hole (wheel slot 1) 5–9 Gobo 1 (wheel slot 2) 10–14 Gobo 2 (wheel slot 3) 15–19 Gobo 3 (wheel slot 4) 20–24 Gobo 4 (wheel slot 5) 25–29 Gobo 5 (wheel slot 6) 30–34 Gobo 6 (wheel slot 7) 35–39 Gobo 7 (wheel slot 8) 40–44 Gobo 8 (wheel slot 9) 45–49 Gobo 9 (wheel slot 10) 50–54 Gobo 1 (wheel slot 2) 55–59 Gobo 2 (wheel slot 3) 60–64 Gobo 3 (wheel slot 4) 65–69 Gobo 4 (wheel slot 5) 70–74 Gobo 5 (wheel slot 6) 75–79 Gobo 6 (wheel slot 7) 80–84 Gobo 7 (wheel slot 8) 85–89 Gobo 8 (wheel slot 9) 90–94 Gobo 9 (wheel slot 10) 95–95 CW gobo wheel rotation fast 96–170 CW gobo wheel rotation from fast to slow 171–179 Gobo wheel rotation stop 180–180 CCW gobo wheel rotation slow 181–255 CCW gobo wheel rotation from slow to fast
8	Gobo Rotation	0	0–127 Indexing Gobo 0-360Grad 128–178 Gobo rotation CW slow to fast 179–204 Gobo rotation Stop 205–255 Gobo rotation CCW slow to fast
9	Gobo1Wheel Index	0	
10	Gobo1Wheel Index Fine	0	Fine byte of Gobo1Wheel Index

Mode 3 Extended Mode (24 Channels) (continued)

Ch	Function	Default	DMX values
11	Gobo 2	0	0–4 Open/Hole (wheel slot 1) 5–9 Gobo 1 (wheel slot 2) 10–14 Gobo 2 (wheel slot 3) 15–19 Gobo 3 (wheel slot 4) 20–24 Gobo 4 (wheel slot 5) 25–29 Gobo 5 (wheel slot 6) 30–34 Gobo 6 (wheel slot 7) 35–39 Gobo 7 (wheel slot 8) 40–44 Gobo 8 (wheel slot 9) 45–49 Gobo 9 (wheel slot 10) 50–54 Gobo 10 (wheel slot 11) 55–59 Gobo 11 (wheel slot 12) 60–64 Gobo 12 (wheel slot 13) 65–69 Gobo 13 (wheel slot 14) 70–74 Gobo 14 (wheel slot 15) 75–79 Gobo 15 (wheel slot 16) 80–84 Gobo 16 (wheel slot 17) 85–89 Gobo 17 (wheel slot 18) 90–94 Gobo 1 - Shaking (wheel slot 2) 95–99 Gobo 2 - Shaking (wheel slot 3) 100–104 Gobo 3 - Shaking (wheel slot 4) 105–109 Gobo 4 - Shaking (wheel slot 5) 110–114 Gobo 5 - Shaking (wheel slot 6) 115–119 Gobo 6 - Shaking (wheel slot 7) 120–124 Gobo 7 - Shaking (wheel slot 8) 125–129 Gobo 8 - Shaking (wheel slot 9) 130–134 Gobo 9 - Shaking (wheel slot 10) 135–139 Gobo 10- Shaking (wheel slot 11) 140–144 Gobo 11- Shaking (wheel slot 12) 145–149 Gobo 12- Shaking (wheel slot 13) 150–154 Gobo 13- Shaking (wheel slot 14) 155–159 Gobo 14- Shaking (wheel slot 15) 160–164 Gobo 15- Shaking (wheel slot 16) 165–169 Gobo 16- Shaking (wheel slot 17) 170–174 Gobo 17- Shaking (wheel slot 18) 175–175 CW gobo wheel rotation fast 176–209 CW gobo wheel rotation from fast to slow 210–210 CW gobo wheel rotation slow 211–224 Gobo wheel rotation Stop 225–225 CCW gobo wheel rotation slow 226–254 CCW gobo wheel rotation from slow to fast 255–255 CCW gobo wheel rotation fast
12	Shutter / Strobe	20	0–19 Shutter Closed 20–39 Shutter Open 40–40 Strobe slow 41–58 Strobe slow to fast 59–59 Strobe fast 60–79 Shutter Open (1) 80–80 Open pulsing slow 81–98 Open pulsing slow to fast 99–99 Open pulsing fast 100–119 Shutter 1 (open) 120–120 Shutter1 Strobe Pulse Close · Close pulsing slow 0.... 121–138 Shutter1 Strobe Pulse Close · Close pulsing slow to... 139–139 Shutter1 Strobe Pulse Close · Close pulsing fast 10 ... 140–140 Strobe slow 141–248 Strobo slow to fast 249–249 Strobe fast 250–255 Shutter Open (3)
13	Dimmer	0	
14	Dimmer Fine	0	Fine byte of Dimmer

Mode 3 Extended Mode (24 Channels) (continued)

Ch	Function	Default	DMX values
15	Focus	128	0–0 Focus far 1–254 Focus from far to near 255–255 Focus near
16	Focus Fine	128	Fine byte of Focus
17	Zoom	128	0–0 Zoom max 1–254 Zoom from max to min 255–255 Zoom min
18	Zoom Fine	128	Fine byte of Zoom
19	Prism	0	0–0 Open position (hole) (wheel slot 1) 1–99 3 - facet prism - rotation cw (wheel slot 2) 100–109 3 - facet prism stop on every position (wheel slot 2) 110–209 3 - facet prism - rotation ccw (wheel slot 2) 210–255 3 - facet prism - rotation cw/ccW (wheel slot 2)
20	Prism Rotation	0	
21	Prism Rotation Fine	0	Fine byte of Prism Rotation
22	Control1	0	0–33 No function 34–36 Lamp OFF after 3 seconds 37–79 No function 80–89 Lamp ON after 3 seconds 90–99 No function 100–109 Motor reset after 3 seconds 110–129 No function 130–139 Fixture reset after 3 seconds 140–255 No function
23	Effect	0	0–0 Effects off 1–255 Effects (1-255)
24	Effect Speed	0	