Cems

Ultimo Sharpy



Manufacturer	**Cems**
Type	**Moving head**
DMX modes	**3**
DMX footprint	**16, 27 channels**
Beam angle	**2.5°**
Pan range	**540°**
Tilt range	**250°**
Size (W × H × D)	**216 × 345 × 210 mm**
GDTF fixture type	**4D631755-2EC9-4032-B54A-5C…**

Controls

Focus · Frost · Prism · Prism rotation · CMY colour mixing · Colour wheel · Strobe · Dimmer · Movement speed · Gobos

Safety-relevant functions

Lamp on and off · Fixture reset · Service functions

DMX modes

Sharpy	16 ch
Sharpy Extended	27 ch
Standard	27 ch

Sharpy

16 channels

Ch	Function	Default	DMX values
1	Color Wheel	0	0–4 White->White+Red (wheel slot 1) 5–8 White+Red->Red (wheel slot 2) 9–12 Red->Red+Orange (wheel slot 2) 13–17 Red+Orange->Orange (wheel slot 3) 18–21 Orange->Orange+Aquamarine (wheel slot 3) 22–25 Orange+Aquamarine->Aquamarine (wheel slot 4) 26–29 Aquamarine->Aquamarine+Deep Green (wheel slot 4) 30–34 Aquamarine+Deep Green->Deep Green (wheel slot 5) 35–38 Deep Green->Deep Green+Light Green (wheel slot 5) 39–42 Deep Green+Light Green->Light Green (wheel slot 6) 43–46 Light Green->Light Green+Lavender (wheel slot 6) 47–51 Light Green+Lavender->Lavender (wheel slot 7) 52–55 Lavender->Lavender+Pink (wheel slot 7) 56–59 Lavender+Pink->Pink (wheel slot 8) 60–63 Pink->Pink+Yellow (wheel slot 8) 64–68 Pink+Yellow->Yellow (wheel slot 9) 69–72 Yellow->Yellow+Magenta (wheel slot 9) 73–76 Yellow+Magenta->Magenta (wheel slot 10) 77–81 Magenta->Magenta+Cyan (wheel slot 10) 82–85 Magenta+Cyan->Cyan (wheel slot 11) 86–89 Cyan->Cyan+CTO 260 (wheel slot 11) 90–93 Cyan+CTO 260->CTO 260 (wheel slot 12) 94–98 CTO 260->CTO 260+CTO 190 (wheel slot 12) 99–102 CTO 260+CTO 190->CTO 190 (wheel slot 13) 103–106 CTO 190->CTO 190+CTB 8000 (wheel slot 13) 107–110 CTO 190+CTB 8000->CTB 8000 (wheel slot 14) 111–115 CTB 8000->CTB 8000 + Blue (wheel slot 14) 116–119 CTB 8000 + Blue->Blue (wheel slot 15) 120–123 Blue->Blue+White (wheel slot 15) 124–127 Blue+White->White (wheel slot 1) 128–255 Slow to Fast
2	Shutter / Strobe	105	0–3 Closed 4–103 Linear Strobe · Slow To Fast 1–12 Hz (wheel slot 1) 104–107 Open 108–207 Pulse Strobe · Slow To Fast 30–360 Hz (wheel slot 1) 208–212 Open 213–225 Random Strobe · Slow 1–4.47 Hz (wheel slot 1) 226–238 Random Strobe · Medium 4.76–8.24 Hz 239–251 Random Strobe · Fast 8.53–12 Hz 252–255 Open
3	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Sharpy (continued)

Ch	Function	Default	DMX values
4	Gobo	0	0–3 Open (wheel slot 1) 4–7 Beam 1 (wheel slot 2) 8–11 Beam 2 (wheel slot 3) 12–15 Beam 3 (wheel slot 4) 16–19 Beam 4 (wheel slot 5) 20–23 Beam 5 (wheel slot 6) 24–27 Beam 6 (wheel slot 7) 28–31 Sharpy G07 (wheel slot 8) 32–35 Sharpy G08 (wheel slot 9) 36–39 Sharpy G09 (wheel slot 10) 40–43 Sharpy G10 (wheel slot 11) 44–47 Sharpy G11 (wheel slot 12) 48–51 Sharpy G12 (wheel slot 13) 52–55 Sharpy G13 (wheel slot 14) 56–59 Sharpy G14 (wheel slot 15) 60–63 Sharpy G15 (wheel slot 16) 64–67 Sharpy G16 (wheel slot 17) 68–71 Sharpy G17 (wheel slot 18) 72–113 CW Fast to Slow 114–117 Stop 118–159 CCW Slow to Fast 160–166 Beam 2 (wheel slot 3) 167–172 Beam 3 (wheel slot 4) 173–179 Beam 4 (wheel slot 5) 180–185 Beam 5 (wheel slot 6) 186–191 Beam 6 (wheel slot 7) 192–198 Sharpy G07 (wheel slot 8) 199–204 Sharpy G08 (wheel slot 9) 205–211 Sharpy G09 (wheel slot 10) 212–217 Sharpy G10 (wheel slot 11) 218–223 Sharpy G11 (wheel slot 12) 224–230 Sharpy G12 (wheel slot 13) 231–236 Sharpy G13 (wheel slot 14) 237–243 Sharpy G14 (wheel slot 15) 244–249 Sharpy G15 (wheel slot 16) 250–255 Sharpy G16 (wheel slot 17)
5	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism Inserted (wheel slot 2)
6	Prism Rotation	0	0–20 Position 0 (wheel slot 3) 21–41 Position 90 (wheel slot 3) 42–62 Position 180 63–83 Position 270 84–104 Position 360 105–126 Position 450 127–127 Position 540 128–190 CW Fast To Slow (wheel slot 3) 191–192 Stop 193–255 CCW Slow To Fast
7	Dummy	0	
8	Frost1	1	0–254 Excluded 255–255 Inserted
9	Focus	0	0–254 Distant (wheel slot 1) 255–255 Near
10	Pan	128	
11	Pan Fine	0	Fine byte of Pan
12	Tilt	128	
13	Tilt Fine	0	Fine byte of Tilt

Sharpy (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–4 Home-Zero (wheel slot 1) 5–50 NoFeature 1 51–55 Pan Invert OFF* 56–60 Pan Invert ON 61–65 Tilt Invert OFF* 66–70 Tilt Invert ON 71–75 P/T Speed STD 76–80 P/T Speed Fast* 81–90 P/T Speed Boost 91–95 P/T Smooth OFF* 96–100 P/T Smooth ON 101–160 NoFeature 2 161–165 Display OFF* 166–170 Display ON 171–175 CMY Shortcut OFF 176–180 CMY Shortcut ON* 181–185 Sharpy Emulation OFF* 186–190 Sharpy Emulation ON 191–200 NoFeature 3 201–205 Dim Curve Linear* (wheel slot 1) 206–210 Dim Curve Square 211–215 CMY Curve STD* (wheel slot 1) 216–220 CMY Curve Fast (wheel slot 1) 221–225 Sunsafe OFF (wheel slot 1) 226–230 Sunsafe ON* (wheel slot 1) 231–235 Safety BO OFF* 236–240 Safety BO ON 241–249 NoFeature 4 250–255 Default Function Recall (wheel slot 1)
15	Fixture Global Reset	0	0–25 Unused Range 26–76 Effects Reset 77–127 Pan/Tilt Reset 128–255 Complete Reset
16	Lamp Control	0	0–25 Unused Range 26–100 Lamp Off (wheel slot 1) 101–255 Lamp On

Sharpy Extended

27 channels

Ch	Function	Default	DMX values

Sharpy Extended (continued)

Ch	Function	Default	DMX values
1	Color Wheel	0	0–4 White->White+Red (wheel slot 1) 5–8 White+Red->Red (wheel slot 2) 9–12 Red->Red+Orange (wheel slot 2) 13–17 Red+Orange->Orange (wheel slot 3) 18–21 Orange->Orange+Aquamarine (wheel slot 3) 22–25 Orange+Aquamarine->Aquamarine (wheel slot 4) 26–29 Aquamarine->Aquamarine+Deep Green (wheel slot 4) 30–34 Aquamarine+Deep Green->Deep Green (wheel slot 5) 35–38 Deep Green->Deep Green+Light Green (wheel slot 5) 39–42 Deep Green+Light Green->Light Green (wheel slot 6) 43–46 Light Green->Light Green+Lavender (wheel slot 6) 47–51 Light Green+Lavender->Lavender (wheel slot 7) 52–55 Lavender->Lavender+Pink (wheel slot 7) 56–59 Lavender+Pink->Pink (wheel slot 8) 60–63 Pink->Pink+Yellow (wheel slot 8) 64–68 Pink+Yellow->Yellow (wheel slot 9) 69–72 Yellow->Yellow+Magenta (wheel slot 9) 73–76 Yellow+Magenta->Magenta (wheel slot 10) 77–81 Magenta->Magenta+Cyan (wheel slot 10) 82–85 Magenta+Cyan->Cyan (wheel slot 11) 86–89 Cyan->Cyan+CTO 260 (wheel slot 11) 90–93 Cyan+CTO 260->CTO 260 (wheel slot 12) 94–98 CTO 260->CTO 260+CTO 190 (wheel slot 12) 99–102 CTO 260+CTO 190->CTO 190 (wheel slot 13) 103–106 CTO 190->CTO 190+CTB 8000 (wheel slot 13) 107–110 CTO 190+CTB 8000->CTB 8000 (wheel slot 14) 111–115 CTB 8000->CTB 8000 + Blue (wheel slot 14) 116–119 CTB 8000 + Blue->Blue (wheel slot 15) 120–123 Blue->Blue+White (wheel slot 15) 124–127 Blue+White->White (wheel slot 1) 128–255 Slow to Fast
2	Shutter / Strobe	105	0–3 Closed 4–103 Linear Strobe · Slow To Fast 1–12 Hz (wheel slot 1) 104–107 Open 108–207 Pulse Strobe · Slow To Fast 30–360 Hz (wheel slot 1) 208–212 Open 213–225 Random Strobe · Slow 1–4.47 Hz (wheel slot 1) 226–238 Random Strobe · Medium 4.76–8.24 Hz 239–251 Random Strobe · Fast 8.53–12 Hz 252–255 Open
3	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Sharpy Extended (continued)

Ch	Function	Default	DMX values
4	Gobo	0	0–3 Open (wheel slot 1) 4–7 Beam 1 (wheel slot 2) 8–11 Beam 2 (wheel slot 3) 12–15 Beam 3 (wheel slot 4) 16–19 Beam 4 (wheel slot 5) 20–23 Beam 5 (wheel slot 6) 24–27 Beam 6 (wheel slot 7) 28–31 Sharpy G07 (wheel slot 8) 32–35 Sharpy G08 (wheel slot 9) 36–39 Sharpy G09 (wheel slot 10) 40–43 Sharpy G10 (wheel slot 11) 44–47 Sharpy G11 (wheel slot 12) 48–51 Sharpy G12 (wheel slot 13) 52–55 Sharpy G13 (wheel slot 14) 56–59 Sharpy G14 (wheel slot 15) 60–63 Sharpy G15 (wheel slot 16) 64–67 Sharpy G16 (wheel slot 17) 68–71 Sharpy G17 (wheel slot 18) 72–113 CW Fast to Slow 114–117 Stop 118–159 CCW Slow to Fast 160–166 Beam 2 (wheel slot 3) 167–172 Beam 3 (wheel slot 4) 173–179 Beam 4 (wheel slot 5) 180–185 Beam 5 (wheel slot 6) 186–191 Beam 6 (wheel slot 7) 192–198 Sharpy G07 (wheel slot 8) 199–204 Sharpy G08 (wheel slot 9) 205–211 Sharpy G09 (wheel slot 10) 212–217 Sharpy G10 (wheel slot 11) 218–223 Sharpy G11 (wheel slot 12) 224–230 Sharpy G12 (wheel slot 13) 231–236 Sharpy G13 (wheel slot 14) 237–243 Sharpy G14 (wheel slot 15) 244–249 Sharpy G15 (wheel slot 16) 250–255 Sharpy G16 (wheel slot 17)
5	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism Inserted (wheel slot 2)
6	Prism Rotation	0	0–20 Position 0 (wheel slot 3) 21–41 Position 90 (wheel slot 3) 42–62 Position 180 63–83 Position 270 84–104 Position 360 105–126 Position 450 127–127 Position 540 128–190 CW Fast To Slow (wheel slot 3) 191–192 Stop 193–255 CCW Slow To Fast
7	Dummy	0	
8	Frost1	1	0–254 Excluded 255–255 Inserted
9	Focus	0	0–254 Distant (wheel slot 1) 255–255 Near
10	Pan	128	
11	Pan Fine	0	Fine byte of Pan
12	Tilt	128	
13	Tilt Fine	0	Fine byte of Tilt

Sharpy Extended (continued)

Ch	Function	Default	DMX values
14	Control1	0	0–4 Home-Zero (wheel slot 1) 5–50 NoFeature 1 51–55 Pan Invert OFF* 56–60 Pan Invert ON 61–65 Tilt Invert OFF* 66–70 Tilt Invert ON 71–75 P/T Speed STD 76–80 P/T Speed Fast* 81–90 P/T Speed Boost 91–95 P/T Smooth OFF* 96–100 P/T Smooth ON 101–160 NoFeature 2 161–165 Display OFF* 166–170 Display ON 171–175 CMY Shortcut OFF 176–180 CMY Shortcut ON* 181–185 Sharpy Emulation OFF* 186–190 Sharpy Emulation ON 191–200 NoFeature 3 201–205 Dim Curve Linear* (wheel slot 1) 206–210 Dim Curve Square 211–215 CMY Curve STD* (wheel slot 1) 216–220 CMY Curve Fast (wheel slot 1) 221–225 Sunsafe OFF (wheel slot 1) 226–230 Sunsafe ON* (wheel slot 1) 231–235 Safety BO OFF* 236–240 Safety BO ON 241–249 NoFeature 4 250–255 Default Function Recall (wheel slot 1)
15	Fixture Global Reset	0	0–25 Unused Range 26–76 Effects Reset 77–127 Pan/Tilt Reset 128–255 Complete Reset
16	Lamp Control	0	0–25 Unused Range 26–100 Lamp Off (wheel slot 1) 101–255 Lamp On
17	Cyan	0	0–254 0% 255–255 100%
18	Cyan Fine	0	Fine byte of Cyan
19	Magenta	0	0–254 0% 255–255 100%
20	Magenta Fine	0	Fine byte of Magenta
21	Yellow	0	0–254 0% 255–255 100%
22	Yellow Fine	0	Fine byte of Yellow
23	Prism	0	0–127 Open (wheel slot 1) 128–255 8-facet (wheel slot 2)
24	Prism Rotation	0	0–20 0>90 21–41 90>180 42–62 180>270 63–83 270>360 84–104 360>450 105–127 450>540 128–190 CW Fast>Slow 191–192 Stop 193–255 CCW Slow>Fast
25	Pan Rotate	0	0–0 No Rotation 1–255 Rotation Slow>Fast

Sharpy Extended (continued)

Ch	Function	Default	DMX values
26	Pan Direction	0	0–127 CCW 128–255 CW
27	Position MSpeed	0	

Standard

27 channels

Ch	Function	Default	DMX values
1	Cyan	0	0–254 0% 255–255 100%
2	Cyan Fine	0	Fine byte of Cyan
3	Magenta	0	0–254 0% 255–255 100%
4	Magenta Fine	0	Fine byte of Magenta
5	Yellow	0	0–254 0% 255–255 100%
6	Yellow Fine	0	Fine byte of Yellow
7	Color Wheel	0	0–4 White (wheel slot 1) 5–8 White+Red (wheel slot 2) 9–12 Red (wheel slot 2) 13–17 Red+Orange (wheel slot 3) 18–21 Orange (wheel slot 3) 22–25 Orange+Aquamarine (wheel slot 4) 26–29 Aquamarine (wheel slot 4) 30–34 Aquamarine+Deep Green (wheel slot 5) 35–38 Deep Green (wheel slot 5) 39–42 Deep Green+Light Green (wheel slot 6) 43–46 Light Green (wheel slot 6) 47–51 Light Green+Lavender (wheel slot 7) 52–55 Lavender (wheel slot 7) 56–59 Lavender+Pink (wheel slot 8) 60–63 Pink (wheel slot 8) 64–68 Pink+Yellow (wheel slot 9) 69–72 Yellow (wheel slot 9) 73–76 Yellow+Magenta (wheel slot 10) 77–81 Magenta (wheel slot 10) 82–85 Magenta+Cyan (wheel slot 11) 86–89 Cyan (wheel slot 11) 90–93 Cyan+CTO260 (wheel slot 12) 94–98 CTO 260 (wheel slot 12) 99–102 CTO260+CTO190 (wheel slot 13) 103–106 CTO 190 (wheel slot 13) 107–110 CTO190+CTB8000 (wheel slot 14) 111–115 CTB 8000 (wheel slot 14) 116–119 CTB8000+Blue (wheel slot 15) 120–123 Blue (wheel slot 15) 124–127 Blue+White (wheel slot 1) 128–255 Slow to Fast
8	Shutter / Strobe	105	0–3 Closed 4–103 Linear Strobe · Slow To Fast 1–12 Hz 104–107 Open 108–207 Pulse Strobe · Slow To Fast 30–360 Hz (wheel slot 1) 208–212 Open 213–225 Random Strobe · Slow 1–4.47 Hz (wheel slot 1) 226–238 Random Strobe · Medium 4.76–8.24 Hz 239–251 Random Strobe · Fast 8.53–12 Hz 252–255 Open
9	Dimmer	0	0–254 0% (wheel slot 1) 255–255 100%

Standard (continued)

Ch	Function	Default	DMX values
10	Dimmer Fine	0	Fine byte of Dimmer
11	Gobo	0	0–3 Open (wheel slot 1) 4–7 Beam 1 (wheel slot 2) 8–11 Beam 2 (wheel slot 3) 12–15 Beam 3 (wheel slot 4) 16–19 Beam 4 (wheel slot 5) 20–23 Beam 5 (wheel slot 6) 24–27 Beam 6 (wheel slot 7) 28–31 Sharpy G07 (wheel slot 8) 32–35 Sharpy G08 (wheel slot 9) 36–39 Sharpy G09 (wheel slot 10) 40–43 Sharpy G10 (wheel slot 11) 44–47 Sharpy G11 (wheel slot 12) 48–51 Sharpy G12 (wheel slot 13) 52–55 Sharpy G13 (wheel slot 14) 56–59 Sharpy G14 (wheel slot 15) 60–63 Sharpy G15 (wheel slot 16) 64–67 Sharpy G16 (wheel slot 17) 68–71 Sharpy G17 (wheel slot 18) 72–113 CW Fast to Slow 114–117 Stop 118–159 CCW Slow to Fast 160–166 Beam 2 (wheel slot 3) 167–172 Beam 3 (wheel slot 4) 173–179 Beam 4 (wheel slot 5) 180–185 Beam 5 (wheel slot 6) 186–191 Beam 6 (wheel slot 7) 192–198 Sharpy G07 (wheel slot 8) 199–204 Sharpy G08 (wheel slot 9) 205–211 Sharpy G09 (wheel slot 10) 212–217 Sharpy G10 (wheel slot 11) 218–223 Sharpy G11 (wheel slot 12) 224–230 Sharpy G12 (wheel slot 13) 231–236 Sharpy G13 (wheel slot 14) 237–243 Sharpy G14 (wheel slot 15) 244–249 Sharpy G15 (wheel slot 16) 250–255 Sharpy G16 (wheel slot 17)
12	Prism	0	0–127 Open (wheel slot 1) 128–255 Prism Inserted (wheel slot 2)
13	Prism Rotation	0	0–20 Position 0 (wheel slot 3) 21–41 Position 90 (wheel slot 3) 42–62 Position 180 63–83 Position 270 84–104 Position 360 105–126 Position 450 127–127 Position 540 128–190 CW Fast To Slow (wheel slot 3) 191–192 Stop 193–255 CCW Slow To Fast
14	Prism	0	0–127 Open (wheel slot 1) 128–255 8-facet (wheel slot 2)
15	Prism Rotation	0	0–20 0>90 21–41 90>180 42–62 180>270 63–83 270>360 84–104 360>450 105–127 450>540 128–190 CW Fast>Slow 191–192 Stop 193–255 CCW Slow>Fast

Standard (continued)

Ch	Function	Default	DMX values
16	Frost1	1	0–254 Excluded 255–255 Inserted
17	Focus	0	0–254 Distant (wheel slot 1) 255–255 Near
18	Pan	128	
19	Pan Fine	0	Fine byte of Pan
20	Pan Rotate	0	0–0 No Rotation 1–255 Rotation Slow>Fast
21	Pan Direction	0	0–127 CCW 128–255 CW
22	Tilt	128	
23	Tilt Fine	0	Fine byte of Tilt
24	Position MSpeed	0	
25	Control1	0	0–4 Home-Zero (wheel slot 1) 5–50 NoFeature 1 51–55 Pan Invert OFF* 56–60 Pan Invert ON 61–65 Tilt Invert OFF* 66–70 Tilt Invert ON 71–75 P/T Speed STD 76–80 P/T Speed Fast* 81–90 P/T Speed Boost 91–95 P/T Smooth OFF* 96–100 P/T Smooth ON 101–160 NoFeature 2 161–165 Display OFF* 166–170 Display ON 171–175 CMY Shortcut OFF 176–180 CMY Shortcut ON* 181–185 Sharpy Emulation OFF* 186–190 Sharpy Emulation ON 191–200 NoFeature 3 201–205 Dim Curve Linear* (wheel slot 1) 206–210 Dim Curve Square 211–215 CMY Curve STD* (wheel slot 1) 216–220 CMY Curve Fast (wheel slot 1) 221–225 Sunsafe OFF (wheel slot 1) 226–230 Sunsafe ON* (wheel slot 1) 231–235 Safety BO OFF* 236–240 Safety BO ON 241–249 NoFeature 4 250–255 Default Function Recall (wheel slot 1)
26	Fixture Global Reset	0	0–25 Unused Range 26–76 Effects Reset 77–127 Pan/Tilt Reset 128–255 Complete Reset
27	Lamp Control	0	0–25 Unused Range 26–100 Lamp Off (wheel slot 1) 101–255 Lamp On