ACME

ACME WILLOW 420 (BSW 420)



Manufacturer	**ACME**
Type	**Moving head**
DMX modes	**2**
DMX footprint	**16, 22 channels**
Beam angle	**1.7-50°**
Pan range	**540°**
Tilt range	**270°**
Size (W × H × D)	**258 × 447 × 252 mm**
GDTF fixture type	**852E17FC-33A9-4297-8315-B25…**

Controls

Focus · Frost · Prism · Prism rotation · Zoom · Colour wheel · Strobe · Dimmer · Pan and tilt · Gobos · Gobo rotation

Safety-relevant functions

Lamp on and off · Fixture reset · Strobe

DMX modes

Mode 2 16DMX	16 ch
Mode 1 22 DMX	22 ch

Mode 2 16DMX

16 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	127	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	P TSpeed	0	
6	Function	0	0–129 No Feature 130–139 Lamp On 140–149 PT Reset 150–159 BeamReset 160–199 No Feature 200–209 All Reset 210–211 Gobo Short cut:Enabled 212–213 Gobo Short cut:Disabled 214–215 Color Short cut:Enabled 216–217 Color Short cut:Disabled 218–229 NoFeature 230–239 Lamp Off 240–255 NoFeature
7	Color Wheel	0	0–7 Open (wheel slot 1) 8–11 Color 1 (wheel slot 2) 12–15 Color 2 (wheel slot 3) 16–19 Color 3 (wheel slot 4) 20–23 Color 4 (wheel slot 5) 24–27 Color 5 (wheel slot 6) 28–31 Color 6 (wheel slot 7) 32–35 Color 7 (wheel slot 8) 36–39 Color 8 (wheel slot 9) 40–43 Color 9 (wheel slot 10) 44–47 Color 10 (wheel slot 11) 48–51 Color 11 (wheel slot 12) 52–55 Color 12 (wheel slot 13) 56–59 Color 13 (wheel slot 14) 60–63 Color 14 (wheel slot 15) 64–65 Open (wheel slot 1) 66–123 Color1 Index 124–127 Open 128–188 Color1WheelSpin CW MAX 189–189 Color1WheelSpin CW MIN 190–193 Stop 194–254 Color1WheelSpin CCW MIN 255–255 Color1WheelSpin CCW MAX
8	Zoom	128	
9	Zoom Fine	128	Fine byte of Zoom
10	Focus	122	
11	Focus Fine	122	Fine byte of Focus
12	Frost1	0	0–7 Closed 8–255 Open
13	C RI	0	0–7 Closed 8–255 Open

Mode 2 16DMX (continued)

Ch	Function	Default	DMX values
14	Shutter / Strobe	132	0–7 Closed 8–15 Open 1 16–130 min Strobe 131–131 max Strobe 132–139 Open 2 140–180 Shutter1StrobePulseOpen MIN 181–181 Shutter1StrobePulseOpen MAX 182–189 Open 3 190–230 Shutter1StrobePulseClose MIN 231–231 Shutter1StrobePulseClose MAX 232–239 Open 240–247 Strobe Ran 248–255 Open
15	Dimmer	0	
16	Dimmer Fine	0	Fine byte of Dimmer

Mode 1 22 DMX

22 channels

Ch	Function	Default	DMX values
1	Pan	127	
2	Pan Fine	127	Fine byte of Pan
3	Tilt	128	
4	Tilt Fine	128	Fine byte of Tilt
5	P TSpeed	0	
6	Function	0	0–129 No Feature 130–139 Lamp On 140–149 PT Reset 150–159 BeamReset 160–199 No Feature 200–209 All Reset 210–211 Gobo Short cut:Enabled 212–213 Gobo Short cut:Disabled 214–215 Color Short cut:Enabled 216–217 Color Short cut:Disabled 218–229 NoFeature 230–239 Lamp Off 240–255 NoFeature

Mode 1 22 DMX (continued)

Ch	Function	Default	DMX values
7	Color Wheel	0	0–7 Open (wheel slot 1) 8–11 Color 1 (wheel slot 2) 12–15 Color 2 (wheel slot 3) 16–19 Color 3 (wheel slot 4) 20–23 Color 4 (wheel slot 5) 24–27 Color 5 (wheel slot 6) 28–31 Color 6 (wheel slot 7) 32–35 Color 7 (wheel slot 8) 36–39 Color 8 (wheel slot 9) 40–43 Color 9 (wheel slot 10) 44–47 Color 10 (wheel slot 11) 48–51 Color 11 (wheel slot 12) 52–55 Color 12 (wheel slot 13) 56–59 Color 13 (wheel slot 14) 60–63 Color 14 (wheel slot 15) 64–65 Open (wheel slot 1) 66–123 Color1 Index 124–127 Open 128–188 Color1WheelSpin CW MAX 189–189 Color1WheelSpin CW MIN 190–193 Stop 194–254 Color1WheelSpin CCW MIN 255–255 Color1WheelSpin CCW MAX
8	Gobo	1	0–3 Open 1 (big Light-transmitting hole) (wheel slot 1) 4–7 Open 2 (small Light-transmitting hole) (wheel slot 1) 8–10 Gobo 1 (wheel slot 2) 11–13 Gobo 2 (wheel slot 3) 14–16 Gobo 3 (wheel slot 4) 17–19 Gobo 4 (wheel slot 5) 20–22 Gobo 5 (wheel slot 6) 23–25 Gobo 6 (wheel slot 7) 26–28 Gobo 7 (wheel slot 8) 29–31 Gobo 8 (wheel slot 9) 32–34 Gobo 9 (wheel slot 10) 35–37 Gobo 10 (wheel slot 11) 38–40 Gobo 11 (wheel slot 12) 41–43 Gobo 12 (wheel slot 13) 44–46 Gobo 13 (wheel slot 14) 47–49 Gobo 14 (wheel slot 15) 50–52 Gobo 15 (wheel slot 16) 53–63 Gobo 16 (wheel slot 17) 64–67 Gobo 1 Shake (wheel slot 2) 68–71 Gobo 2 Shake (wheel slot 3) 72–75 Gobo 3 Shake (wheel slot 4) 76–79 Gobo 4 Shake (wheel slot 5) 80–83 Gobo 5 Shake (wheel slot 6) 84–87 Gobo 6 Shake (wheel slot 7) 88–91 Gobo 7 Shake (wheel slot 8) 92–95 Gobo 8 Shake (wheel slot 9) 96–99 Gobo 9 Shake (wheel slot 10) 100–103 Gobo 10 Shake (wheel slot 11) 104–107 Gobo 11 Shake (wheel slot 12) 108–111 Gobo 12 Shake (wheel slot 13) 112–115 Gobo 13 Shake (wheel slot 14) 116–119 Gobo 14 Shake (wheel slot 15) 120–123 Gobo 15 Shake (wheel slot 16) 124–127 Gobo 16 Shake (wheel slot 17) 128–188 CW Max 189–189 CW Min 190–193 Stop 194–254 CCW Min 255–255 CCW Max

Mode 1 22 DMX (continued)

Ch	Function	Default	DMX values
9	Gobo 2	0	0–7 Open (wheel slot 1) 8–12 Gobo 1 (wheel slot 2) 13–17 Gobo 2 (wheel slot 3) 18–22 Gobo 3 (wheel slot 4) 23–27 Gobo 4 (wheel slot 5) 28–32 Gobo 5 (wheel slot 6) 33–37 Gobo 6 (wheel slot 7) 38–42 Gobo 7 (wheel slot 8) 43–47 Gobo 8 (wheel slot 9) 48–52 Gobo 9 (wheel slot 10) 53–63 Gobo 10 (wheel slot 10) 64–69 Gobo1Shake (wheel slot 2) 70–75 Gobo2 Shake (wheel slot 3) 76–81 Gobo3 Shake (wheel slot 4) 82–87 Gobo4 Shake (wheel slot 5) 88–93 Gobo5 Shake (wheel slot 6) 94–99 Gobo6 Shake (wheel slot 7) 100–105 Gobo7 Shake (wheel slot 8) 106–111 Gobo8 Shake (wheel slot 9) 112–117 Gobo9 Shake (wheel slot 10) 118–127 Gobo10 Shake (wheel slot 11) 128–188 CW MAX 189–189 CW MIN 190–193 Stop (wheel slot 1) 194–254 CW MIN 255–255 CW MAX
10	Gobo Rotation	0	0–127 NoFeature 128–188 CCW Max 189–189 CCW Min 190–193 Stop 194–254 CW Min 255–255 CW Max
11	Gobo Rotation Fine	0	Fine byte of Gobo Rotation
12	Prism	0	0–7 Open (wheel slot 1) 8–255 Prism 1 (wheel slot 2)
13	Prism Rotation	0	0–0 Open (wheel slot 1) 1–127 Index (wheel slot 2) 128–188 CW MAX (wheel slot 2) 189–189 CW MIN (wheel slot 2) 190–193 Stop (wheel slot 2) 194–254 CCW MIN (wheel slot 2) 255–255 CCW MAX (wheel slot 2)
14	Zoom	128	
15	Zoom Fine	128	Fine byte of Zoom
16	Focus	122	
17	Focus Fine	122	Fine byte of Focus
18	Frost1	0	0–7 Closed 8–255 Open
19	C RI	0	0–7 Closed 8–255 Open

Mode 1 22 DMX (continued)

Ch	Function	Default	DMX values
20	Shutter / Strobe	132	0–7 Closed 8–15 Open 1 16–130 min Strobe 131–131 max Strobe 132–139 Open 2 140–180 Shutter1StrobePulseOpen MIN 181–181 Shutter1StrobePulseOpen MAX 182–189 Open 3 190–230 Shutter1StrobePulseClose MIN 231–231 Shutter1StrobePulseClose MAX 232–239 Open 240–247 Strobe Ran 248–255 Open
21	Dimmer	0	
22	Dimmer Fine	0	Fine byte of Dimmer