ADJ

Hydro Wash X7



Manufacturer	**ADJ**
Type	**Moving head**
DMX modes	**5**
DMX footprint	**15, 17, 22, 41, 46 channels**
Beam angle	**6-40°**
Pan range	**540°**
Tilt range	**265°**
Size (W × H × D)	**220 × 250 × 220 mm**
GDTF fixture type	**68DE66BB-53EF-4874-B987-F8…**

Controls

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

Safety-relevant functions

Fixture reset · Strobe · Built-in effect programmes

DMX modes

15 CH	15 ch
17 CH	17 ch
22Ch	22 ch
41 CH	41 ch
46 CH	46 ch

15 CH

15 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Tilt	127	
3	Color Wheel	0	0–2 Open (wheel slot 1) 3–4 Color 1 (wheel slot 2) 5–6 Color 2 (wheel slot 3) 7–8 Color 3 (wheel slot 4) 9–10 Color 4 (wheel slot 5) 11–12 Color 5 (wheel slot 6) 13–14 Color 6 (wheel slot 7) 15–16 Color 7 (wheel slot 8) 17–18 Color 8 (wheel slot 9) 19–21 Color 9 (wheel slot 10) 22–23 Color 10 (wheel slot 11) 24–25 Color 11 (wheel slot 12) 26–27 Color 12 (wheel slot 13) 28–29 Color 13 (wheel slot 14) 30–31 Color 14 (wheel slot 15) 32–33 Color 15 (wheel slot 16) 34–35 Color 16 (wheel slot 17) 36–37 Color 17 (wheel slot 18) 38–39 Color 18 (wheel slot 19) 40–42 Color 19 (wheel slot 20) 43–44 Color 20 (wheel slot 21) 45–46 Color 21 (wheel slot 22) 47–48 Color 22 (wheel slot 23) 49–50 Color 23 (wheel slot 24) 51–52 Color 24 (wheel slot 25) 53–54 Color 25 (wheel slot 26) 55–56 Color 26 (wheel slot 27) 57–58 Color 27 (wheel slot 28) 59–60 Color 28 (wheel slot 29) 61–63 Color 29 (wheel slot 30) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
4	Color5	0	
5	Red	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
6	Green	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
7	Blue	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
8	White	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

15 CH (continued)

Ch	Function	Default	DMX values
9	Shutter / Strobe	50	0–31 Shutter Closed 32–63 No Function (Shutter Open) 64–95 Strobe Effect Slow to Fast 96–127 No Function (Shutter Open) 128–159 Pulse-Effect in Sequences 160–191 No Function (Shutter Open) 192–223 Random Strobe Effect Slow to Fast 224–255 No Function (Shutter Open)
10	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	Dimmer Fine	0	Fine byte of Dimmer
12	Zoom	127	
13	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theatre 101–140 Stage 2 141–255 Default to unit setting
14	Position MSpeed	0	
15	Function	0	0–10 Default refresh rates (1200) 11–11 900 Hz 12–12 1000 Hz 13–13 1110 Hz 14–14 1300 Hz 15–15 1400 Hz 16–16 1500 Hz 17–17 2500 Hz 18–18 4000 Hz 19–19 5000 Hz 20–20 6000 Hz 21–21 10000 Hz 22–22 15000 Hz 23–23 Disable LED refresh Rates 24–79 No Function 80–89 Enable blackout while pan/tilt moving 90–99 Disable blackout while pan/tilt moving 100–139 No Function 140–149 Reset Pan/Tilt 150–159 Reset Zoom 160–199 No Function 200–209 Reset All 210–255 No function

17 CH

17 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	127	Fine byte of Tilt

17 CH (continued)

Ch	Function	Default	DMX values
5	Color Wheel	0	0–2 Open (wheel slot 1) 3–4 Color 1 (wheel slot 2) 5–6 Color 2 (wheel slot 3) 7–8 Color 3 (wheel slot 4) 9–10 Color 4 (wheel slot 5) 11–12 Color 5 (wheel slot 6) 13–14 Color 6 (wheel slot 7) 15–16 Color 7 (wheel slot 8) 17–18 Color 8 (wheel slot 9) 19–21 Color 9 (wheel slot 10) 22–23 Color 10 (wheel slot 11) 24–25 Color 11 (wheel slot 12) 26–27 Color 12 (wheel slot 13) 28–29 Color 13 (wheel slot 14) 30–31 Color 14 (wheel slot 15) 32–33 Color 15 (wheel slot 16) 34–35 Color 16 (wheel slot 17) 36–37 Color 17 (wheel slot 18) 38–39 Color 18 (wheel slot 19) 40–42 Color 19 (wheel slot 20) 43–44 Color 20 (wheel slot 21) 45–46 Color 21 (wheel slot 22) 47–48 Color 22 (wheel slot 23) 49–50 Color 23 (wheel slot 24) 51–52 Color 24 (wheel slot 25) 53–54 Color 25 (wheel slot 26) 55–56 Color 26 (wheel slot 27) 57–58 Color 27 (wheel slot 28) 59–60 Color 28 (wheel slot 29) 61–63 Color 29 (wheel slot 30) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
6	Color5	0	
7	Red	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
8	Green	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
9	Blue	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
10	White	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %

17 CH (continued)

Ch	Function	Default	DMX values
11	Shutter / Strobe	50	0–31 Shutter Closed 32–63 No Function (Shutter Open) 64–95 Strobe Effect Slow to Fast 96–127 No Function (Shutter Open) 128–159 Pulse-Effect in Sequences 160–191 No Function (Shutter Open) 192–223 Random Strobe Effect Slow to Fast 224–255 No Function (Shutter Open)
12	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
13	Dimmer Fine	0	Fine byte of Dimmer
14	Zoom	127	
15	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theatre 101–140 Stage 2 141–255 Default to unit setting
16	Position MSpeed	0	
17	Function	0	0–10 Default refresh rates (1200) 11–11 900 Hz 12–12 1000 Hz 13–13 1110 Hz 14–14 1300 Hz 15–15 1400 Hz 16–16 1500 Hz 17–17 2500 Hz 18–18 4000 Hz 19–19 5000 Hz 20–20 6000 Hz 21–21 10000 Hz 22–22 15000 Hz 23–23 Disable LED refresh Rates 24–79 No Function 80–89 Enable blackout while pan/tilt moving 90–99 Disable blackout while pan/tilt moving 100–139 No Function 140–149 Reset Pan/Tilt 150–159 Reset Zoom 160–199 No Function 200–209 Reset All 210–255 No function

22Ch

22 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	127	Fine byte of Tilt

22Ch (continued)

Ch	Function	Default	DMX values
5	Color Wheel	0	0–2 Open (wheel slot 1) 3–4 Color 1 (wheel slot 2) 5–6 Color 2 (wheel slot 3) 7–8 Color 3 (wheel slot 4) 9–10 Color 4 (wheel slot 5) 11–12 Color 5 (wheel slot 6) 13–14 Color 6 (wheel slot 7) 15–16 Color 7 (wheel slot 8) 17–18 Color 8 (wheel slot 9) 19–21 Color 9 (wheel slot 10) 22–23 Color 10 (wheel slot 11) 24–25 Color 11 (wheel slot 12) 26–27 Color 12 (wheel slot 13) 28–29 Color 13 (wheel slot 14) 30–31 Color 14 (wheel slot 15) 32–33 Color 15 (wheel slot 16) 34–35 Color 16 (wheel slot 17) 36–37 Color 17 (wheel slot 18) 38–39 Color 18 (wheel slot 19) 40–42 Color 19 (wheel slot 20) 43–44 Color 20 (wheel slot 21) 45–46 Color 21 (wheel slot 22) 47–48 Color 22 (wheel slot 23) 49–50 Color 23 (wheel slot 24) 51–52 Color 24 (wheel slot 25) 53–54 Color 25 (wheel slot 26) 55–56 Color 26 (wheel slot 27) 57–58 Color 27 (wheel slot 28) 59–60 Color 28 (wheel slot 29) 61–63 Color 29 (wheel slot 30) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
6	Color5	0	
7	Red	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
8	Green	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
9	Blue	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
10	White	255	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
11	C TO	0	0–0 Off 1–255 Linear From 2700K to 10000K

22Ch (continued)

Ch	Function	Default	DMX values
12	Effect	0	0–14 No Function 15–30 Program 1 31–46 Program 2 47–62 Program 3 63–78 Program 4 79–94 Program 5 95–110 Program 6 111–126 Program 7 127–142 Program 8 143–158 Program 9 159–174 Program 10 175–190 Program 11 191–206 Program 12 207–222 Program 13 223–238 Program 14 239–255 Program 15
13	Effect Speed	0	0–125 Backward fast to slow 126–130 Stop 131–255 Forward slow to fast
14	Effects1Fade	0	
15	Shutter / Strobe	50	0–31 Shutter Closed 32–63 No Function (Shutter Open) 64–95 Strobe Effect Slow to Fast 96–127 No Function (Shutter Open) 128–159 Pulse-Effect in Sequences 160–191 No Function (Shutter Open) 192–223 Random Strobe Effect Slow to Fast 224–255 No Function (Shutter Open)
16	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
17	Dimmer Fine	0	Fine byte of Dimmer
18	Zoom	127	

22Ch (continued)

Ch	Function	Default	DMX values
19	Dimmer Mode	0	0–20 Default to unit setting 21–40 Standard 41–60 Stage 61–80 TV 81–100 Architectural 101–120 Theatre 121–140 Stage 2 141–141 0/1s Delay 142–142 0/2s Delay 143–143 0/3s Delay 144–144 0/4s Delay 145–145 0/5s Delay 146–146 0/6s Delay 147–147 0/7s Delay 148–148 0/8s Delay 149–149 0/9s Delay 150–150 1s Delay 151–151 1/5s Delay 152–152 2s Delay 153–153 3s Delay 154–154 4s Delay 155–155 5s Delay 156–156 6s Delay 157–157 7s Delay 158–158 8s Delay 159–159 9s Delay 160–160 10s Delay 161–255 Default
20	Dimmer Curve	0	0–20 Square 21–40 Linear 41–60 Inverted Square 61–80 S Curve 81–255 No function
21	Position MSpeed	0	
22	Function	0	0–10 Default refresh rates (1200) 11–11 900 Hz 12–12 1000 Hz 13–13 1110 Hz 14–14 1300 Hz 15–15 1400 Hz 16–16 1500 Hz 17–17 2500 Hz 18–18 4000 Hz 19–19 5000 Hz 20–20 6000 Hz 21–21 10000 Hz 22–22 15000 Hz 23–23 Disable LED refresh Rates 24–79 No Function 80–89 Enable blackout while pan/tilt moving 90–99 Disable blackout while pan/tilt moving 100–139 No Function 140–149 Reset Pan/Tilt 150–159 Reset Zoom 160–199 No Function 200–209 Reset All 210–255 No function

41 CH

41 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	127	Fine byte of Tilt
5	Color Wheel	0	0–2 Open (wheel slot 1) 3–4 Color 1 (wheel slot 2) 5–6 Color 2 (wheel slot 3) 7–8 Color 3 (wheel slot 4) 9–10 Color 4 (wheel slot 5) 11–12 Color 5 (wheel slot 6) 13–14 Color 6 (wheel slot 7) 15–16 Color 7 (wheel slot 8) 17–18 Color 8 (wheel slot 9) 19–21 Color 9 (wheel slot 10) 22–23 Color 10 (wheel slot 11) 24–25 Color 11 (wheel slot 12) 26–27 Color 12 (wheel slot 13) 28–29 Color 13 (wheel slot 14) 30–31 Color 14 (wheel slot 15) 32–33 Color 15 (wheel slot 16) 34–35 Color 16 (wheel slot 17) 36–37 Color 17 (wheel slot 18) 38–39 Color 18 (wheel slot 19) 40–42 Color 19 (wheel slot 20) 43–44 Color 20 (wheel slot 21) 45–46 Color 21 (wheel slot 22) 47–48 Color 22 (wheel slot 23) 49–50 Color 23 (wheel slot 24) 51–52 Color 24 (wheel slot 25) 53–54 Color 25 (wheel slot 26) 55–56 Color 26 (wheel slot 27) 57–58 Color 27 (wheel slot 28) 59–60 Color 28 (wheel slot 29) 61–63 Color 29 (wheel slot 30) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
6	Color5	0	
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	

41 CH (continued)

Ch	Function	Default	DMX values
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	Shutter / Strobe	50	0–31 Shutter Closed 32–63 No Function (Shutter Open) 64–95 Strobe Effect Slow to Fast 96–127 No Function (Shutter Open) 128–159 Pulse-Effect in Sequences 160–191 No Function (Shutter Open) 192–223 Random Strobe Effect Slow to Fast 224–255 No Function (Shutter Open)
36	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
37	Dimmer Fine	0	Fine byte of Dimmer
38	Zoom	127	
39	Dimmer Mode	0	0–20 Standard 21–40 Stage 41–60 TV 61–80 Architectural 81–100 Theatre 101–140 Stage 2 141–255 Default to unit setting
40	Position MSpeed	0	

41 CH (continued)

Ch	Function	Default	DMX values
41	Function	0	0–10 Default refresh rates (1200) 11–11 900 Hz 12–12 1000 Hz 13–13 1110 Hz 14–14 1300 Hz 15–15 1400 Hz 16–16 1500 Hz 17–17 2500 Hz 18–18 4000 Hz 19–19 5000 Hz 20–20 6000 Hz 21–21 10000 Hz 22–22 15000 Hz 23–23 Disable LED refresh Rates 24–79 No Function 80–89 Enable blackout while pan/tilt moving 90–99 Disable blackout while pan/tilt moving 100–139 No Function 140–149 Reset Pan/Tilt 150–159 Reset Zoom 160–199 No Function 200–209 Reset All 210–255 No function

46 CH

46 channels

Ch	Function	Default	DMX values
1	Pan	128	
2	Pan Fine	0	Fine byte of Pan
3	Tilt	127	
4	Tilt Fine	127	Fine byte of Tilt

46 CH (continued)

Ch	Function	Default	DMX values
5	Color Wheel	0	0–2 Open (wheel slot 1) 3–4 Color 1 (wheel slot 2) 5–6 Color 2 (wheel slot 3) 7–8 Color 3 (wheel slot 4) 9–10 Color 4 (wheel slot 5) 11–12 Color 5 (wheel slot 6) 13–14 Color 6 (wheel slot 7) 15–16 Color 7 (wheel slot 8) 17–18 Color 8 (wheel slot 9) 19–21 Color 9 (wheel slot 10) 22–23 Color 10 (wheel slot 11) 24–25 Color 11 (wheel slot 12) 26–27 Color 12 (wheel slot 13) 28–29 Color 13 (wheel slot 14) 30–31 Color 14 (wheel slot 15) 32–33 Color 15 (wheel slot 16) 34–35 Color 16 (wheel slot 17) 36–37 Color 17 (wheel slot 18) 38–39 Color 18 (wheel slot 19) 40–42 Color 19 (wheel slot 20) 43–44 Color 20 (wheel slot 21) 45–46 Color 21 (wheel slot 22) 47–48 Color 22 (wheel slot 23) 49–50 Color 23 (wheel slot 24) 51–52 Color 24 (wheel slot 25) 53–54 Color 25 (wheel slot 26) 55–56 Color 26 (wheel slot 27) 57–58 Color 27 (wheel slot 28) 59–60 Color 28 (wheel slot 29) 61–63 Color 29 (wheel slot 30) 128–189 CW Fast to Slow 190–193 Stop 194–255 CCW Slow to Fast
6	Color5	0	
7	Reserved 7	0	
8	Reserved 8	0	
9	Reserved 9	0	
10	Reserved 10	0	
11	Reserved 11	0	
12	Reserved 12	0	
13	Reserved 13	0	
14	Reserved 14	0	
15	Reserved 15	0	
16	Reserved 16	0	
17	Reserved 17	0	
18	Reserved 18	0	
19	Reserved 19	0	
20	Reserved 20	0	
21	Reserved 21	0	
22	Reserved 22	0	
23	Reserved 23	0	
24	Reserved 24	0	
25	Reserved 25	0	
26	Reserved 26	0	

46 CH (continued)

Ch	Function	Default	DMX values
27	Reserved 27	0	
28	Reserved 28	0	
29	Reserved 29	0	
30	Reserved 30	0	
31	Reserved 31	0	
32	Reserved 32	0	
33	Reserved 33	0	
34	Reserved 34	0	
35	C TO	0	0–0 Off 1–255 Linear From 2700K to 10000K
36	Effect	0	0–14 No Function 15–30 Program 1 31–46 Program 2 47–62 Program 3 63–78 Program 4 79–94 Program 5 95–110 Program 6 111–126 Program 7 127–142 Program 8 143–158 Program 9 159–174 Program 10 175–190 Program 11 191–206 Program 12 207–222 Program 13 223–238 Program 14 239–255 Program 15
37	Effect Speed	0	0–125 Backward fast to slow 126–130 Stop 131–255 Forward slow to fast
38	Effects1Fade	0	
39	Shutter / Strobe	50	0–31 Shutter Closed 32–63 No Function (Shutter Open) 64–95 Strobe Effect Slow to Fast 96–127 No Function (Shutter Open) 128–159 Pulse-Effect in Sequences 160–191 No Function (Shutter Open) 192–223 Random Strobe Effect Slow to Fast 224–255 No Function (Shutter Open)
40	Dimmer	0	0–62 0 % 63–126 25 % 127–190 50 % 191–254 75 % 255–255 100 %
41	Dimmer Fine	0	Fine byte of Dimmer
42	Zoom	127	

46 CH (continued)

Ch	Function	Default	DMX values
43	Dimmer Mode	0	0–20 Default to unit setting 21–40 Standard 41–60 Stage 61–80 TV 81–100 Architectural 101–120 Theatre 121–140 Stage 2 141–141 0/1s Delay 142–142 0/2s Delay 143–143 0/3s Delay 144–144 0/4s Delay 145–145 0/5s Delay 146–146 0/6s Delay 147–147 0/7s Delay 148–148 0/8s Delay 149–149 0/9s Delay 150–150 1s Delay 151–151 1/5s Delay 152–152 2s Delay 153–153 3s Delay 154–154 4s Delay 155–155 5s Delay 156–156 6s Delay 157–157 7s Delay 158–158 8s Delay 159–159 9s Delay 160–160 10s Delay 161–255 Default
44	Dimmer Curve	0	0–20 Square 21–40 Linear 41–60 Inverted Square 61–80 S Curve 81–255 No function
45	Position MSpeed	0	
46	Function	0	0–10 Default refresh rates (1200) 11–11 900 Hz 12–12 1000 Hz 13–13 1110 Hz 14–14 1300 Hz 15–15 1400 Hz 16–16 1500 Hz 17–17 2500 Hz 18–18 4000 Hz 19–19 5000 Hz 20–20 6000 Hz 21–21 10000 Hz 22–22 15000 Hz 23–23 Disable LED refresh Rates 24–79 No Function 80–89 Enable blackout while pan/tilt moving 90–99 Disable blackout while pan/tilt moving 100–139 No Function 140–149 Reset Pan/Tilt 150–159 Reset Zoom 160–199 No Function 200–209 Reset All 210–255 No function