

# ADJ FOCUS SPOT 7Z

## DMX TRAITS: CHANNELS, FUNCTIONS, & VALUES

Features subject to change without notice

\*Rotation direction (Clockwise/Counter-Clockwise) and control of effects depends on head orientation and Pan/Tilt settings\*

MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
1	1	1	000-255	<b>Pan</b> - Pan Movement (540/630)
	2	2	000-255	<b>Pan Fine</b>
2	3	3	000-255	<b>Tilt</b> - Tilt Movement (270)
	4	4	000-255	<b>Tilt Fine</b>
3	5	5	000-255	<b>Cyan</b> - 0% to 100%
		6	000-255	<b>Cyan Fine</b> - 0% to 100%
4	6	7	000-255	<b>Magenta</b> - 0% to 100%
		8	000-255	<b>Magenta Fine</b> - 0% to 100%
5	7	9	000-255	<b>Yellow</b> - 0% to 100%
		10	000-255	<b>Yellow Fine</b> - 0% to 100%
6	8	11	000-255	<b>CTO</b> - 0% to 100%
		12	000-255	<b>CTO Fine</b> - 0% to 100%
				<b>White Color Temp Presets</b>
7	9	13	000-023	Open
			024-063	See WCT Preset Chart
			065-255	6700K
				<b>Color Wheel</b>
			000-004	Open
			005-017	Open / Red
			018-030	Red
			031-043	Red / Blue
			044-056	Blue
			057-069	Blue / Green
			070-082	Green
			083-095	Green / Orange
			096-108	Orange
			109-121	Orange / Midnight Blue
			122-134	Midnight Blue
			135-147	Midnight Blue / High CRI Filter
			148-160	High CRI Filter
			161-173	High CRI Filter
			174-186	CTB
			187-199	CTB / Open
			200-226	Clockwise Color Wheel Rotation, Fast -> Slow
			227-228	No Rotation
			229-255	Counter Clockwise Color Wheel Rotation, Slow -> Fast

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MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
9	11	15		<b>Color Macros - CMY and Color Wheel</b>
			000-031	OFF
			032-039	Macro1
			040-047	Macro2
			048-055	Macro3
			056-063	Macro4
			064-071	Macro5
			072-079	Macro6
			080-087	Macro7
			088-095	Macro8
			096-103	Macro9
			104-111	Macro10
			112-119	Macro11
			120-127	Macro12
			128-135	Macro13
			136-143	Macro14
			144-151	Macro15
			152-159	Macro16
			160-167	Macro17
			168-175	Macro18
			176-183	Macro19
			184-191	Macro20
			192-199	Macro21
			200-207	Macro22
			208-215	Macro23
			216-223	Macro24
			224-231	Macro25
232-239	Macro26			
240-247	Macro27			
248-255	Random CMY			
10	12	16		<b>Gobo Wheel 1</b>
			000-009	Open
			010-019	Gobo 1
			020-029	Gobo 2
			030-039	Gobo 3
			040-049	Gobo 4
			050-059	Gobo 5
			060-069	Gobo 6
			070-079	Gobo 7
			080-094	Gobo 1 shake (slow-fast)
			095-109	Gobo 2 shake (slow-fast)
			110-124	Gobo 3 shake (slow-fast)
			125-139	Gobo 4 shake (slow-fast)
			140-154	Gobo 5 shake (slow-fast)
			155-169	Gobo 6 shake (slow-fast)
			170-189	Gobo 7 shake (slow-fast)
			190-221	Clockwise Gobo Wheel Rotation, Fast -> Slow
222-223	No Rotation			
224-255	Counter Clockwise Gobo Wheel Rotation, Slow -> Fast			
11	13	17		<b>Gobo 1 Rotation</b>
			000-005	Gobo1 Rot. Off
			006-128	Gobo Index 0° ... 540°
			129-191	Clockwise Gobo Rotation, Fast -> Slow
			192-192	No Rotation
			193-255	Counter Clockwise Gobo Rotation, Slow -> Fast
		18	000-255	<b>Gobo 1 Index Fine</b> - Gobo indexing fine

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MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
12	14	19		<b>Gobo Wheel 2</b>
			000-009	Open
			010-019	Gobo 1
			020-029	Gobo 2
			030-039	Gobo 3
			040-049	Gobo 4
			050-059	Gobo 5
			060-069	Gobo 6
			070-079	Gobo 7
			080-094	Gobo 1 shake (slow-fast)
			095-109	Gobo 2 shake (slow-fast)
			110-124	Gobo 3 shake (slow-fast)
			125-139	Gobo 4 shake (slow-fast)
			140-154	Gobo 5 shake (slow-fast)
			155-169	Gobo 6 shake (slow-fast)
			170-189	Gobo 7 shake (slow-fast)
				190-221
	222-223	No Rotation		
	224-255	Counter Clockwise Gobo Wheel Rotation, Slow -> Fast		
13	15	20		<b>Gobo 2 Rotation</b>
			000-005	Gobo2 Rot. Off
			006-128	Gobo Index 0° ... 540°
			129-191	Clockwise Gobo Rotation, Fast -> Slow
			192-192	No Rotation
	193-255	Counter Clockwise Gobo Rotation, Slow -> Fast		
		21	000-255	<b>Gobo indexing fine</b>
14	16	22		<b>Shutter</b>
			000-031	Shutter closed
			032-063	Shutter open
			064-095	Strobe Slow to fast
			096-127	Shutter open
			128-159	Pulse effect Slow to fast
			160-191	Shutter open
			192-223	Random strobe Slow to fast
	224-255	Shutter open		
15	17	23	000-255	<b>Dimmer</b> - Intensity 0 to 100%
	18	24	000-255	<b>Dimmer Fine</b> - Dimmer Intensity Fine
16	19	25		<b>Prism 1</b>
			000-031	No Effect
			032-255	Prism 1 (6 Facet Linear)
17	20	26		<b>Prism 1 Rotate &amp; Index</b>
			000-127	Prism 1 indexing
			128-189	Clockwise rotation from fast to slow
			190-193	No rotation
			194-255	Counter-Clockwise rotation from slow to fast
		27	000-255	<b>Prism 1 Index Fine</b> - Fine 16-bit index
18	21	28		<b>Prism 2</b>
			000-031	No Effect
			032-255	Prism 2 (4 Facet Square)
19	22	29		<b>Prism 2 Rotate &amp; Index</b>
			000-127	Prism 2 indexing
			128-189	Clockwise rotation from fast to slow
			190-193	No rotation
			194-255	Counter-Clockwise rotation from slow to fast
		30	000-255	<b>Prism 2 Index Fine</b> - Fine 16-bit index

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MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
20	23	31		<b>Prism/Gobo Macros</b>
			000-009	No Prism - Open
			010-019	Macro1
			020-029	Macro2
			030-039	Macro3
			040-049	Macro4
			050-059	Macro5
			060-069	Macro6
			070-079	Macro7
			080-089	Macro8
			090-099	Macro9
			100-109	Macro10
			110-119	Macro11
			120-129	Macro12
			130-139	Macro13
			140-149	Macro14
			150-159	Macro15
			160-169	Macro16
			170-179	Macro17
			180-189	Macro18
			190-199	Macro19
			200-209	Macro20
			210-219	Macro21
			220-229	Macro22
230-239	Macro23			
240-255	Macro24			
21	24	32	000-255	<b>Focus</b> - 0% to 100%
		33	000-255	<b>Focus fine</b> - 0% to 100%
22	25	34	000-255	<b>Zoom</b> - Narrow to wide
		35	000-255	<b>Zoom fine</b> - Narrow to wide 16-bit
23	26	36		<b>Iris</b>
			000-191	Max. diameter to Min.diameter
			192-223	Pulse opening fast to slow
			224-255	Pulse closing slow to fast
		37	000-255	<b>Iris Fine</b> - Iris Fine
24	27	38	000-255	<b>Frost 1</b> - 0% to 100% (Medium)
25	28	39	000-255	<b>Frost 2</b> - 0% to 100% (Heavy)
26	29	40		<b>Animation</b>
			000-005	Wheel Rot. Off
			006-128	Animation Index 0 ... 540°
			129-191	Clockwise Animation Rotation, Fast -> Slow
			192-192	No Rotation
			193-255	Counter Clockwise Animation Rotation, Slow-> Fast

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MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
27	30	41		<b>Dimmer Mode</b>
			000-020	Default to Unit Setting
			021-040	Standard
			041-060	Stage
			061-080	TV
			081-100	Architectural
			101-120	Theater
			121-140	Stage 2
			141-160	<b>Dim Speed From Fast to Slow (0.1-10s)</b>
			141	0.1 Sec.
			142	0.2 Sec.
			143	0.3 Sec.
			144	0.4 Sec.
			145	0.5 Sec.
			146	0.6 Sec.
			147	0.7 Sec.
			148	0.8 Sec.
			149	0.9 Sec.
			150	1.0 Sec.
			151	1.5 Sec.
			152	2.0 Sec.
153	3.0 Sec.			
154	4.0 Sec.			
155	5.0 Sec.			
156	6.0 Sec.			
157	7.0 Sec.			
158	8.0 Sec.			
159	9.0 Sec.			
160	10 Sec.			
161-255	Default to Unit Setting			
	31	42		<b>Dim Curves</b>
			000-020	Square
			021-040	Linear
			041-060	Inv. Squa
			061-080	S. Curve
			081-255	No function
28	32	43		<b>CMY / Color Macro Speed Max -&gt; Min</b>
29	33	44		<b>Pan/Tilt Speed</b>
			000-225	Pan/Tilt Fast -> Slow
			226-235	Blackout by movement
			236-245	Blackout by all wheel changing
			246-255	No function

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MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
30	34	45		<b>Special Function</b>
			000-039	No function
			040-049	Fan Control - Low (Hold 3s)
			050-059	Fan Control - High (Hold 3s)
			060-069	Fan Control - Auto (Default) (Hold 3s)
			070-074	All motor Reset (Hold 3s)
			075-079	Pan / Tilt Reset (Hold 3s)
			080-084	Color Reset (Hold 3s)
			085-089	Gobo Reset (Hold 3s)
			090-094	Focus and Zoom Reset (Hold 3s)
			090-099	Shutter Reset (Hold 3s)
			100-104	No function
			105-109	Other motors Reset (Hold 3s)
			110-142	No function
			143-144	Pan/Tilt Speed 1 (Default) (Hold 5s)
			145-146	Pan/Tilt Speed 2 (Hold 5s)
			147-148	Pan/Tilt Speed 3 (Hold 5s)
			149-150	Aria ON (Default) (Hold 3s)
			151-152	Aria OFF (Hold 5s)
			153-154	Hibernation Enable (Hold 3s)
			155-156	Hibernation OFF (Hold 5s)
			157-158	Display Backlight ON (Hold 3s)
			159-160	Display Backlight OFF (Hold 5s)
			161-164	No function
			165-166	Invert Pan ON (Hold 3s)
			167-168	Invert Pan OFF (Hold 5s)
			169-170	Invert Tilt ON (Hold 3s)
			171-172	Invert Tilt OFF (Hold 5s)
			173-173	900 Hz LED Refresh Rate (Hold 1s)
			174-174	910 Hz LED Refresh Rate (Hold 1s)
			175-175	920 Hz LED Refresh Rate (Hold 1s)
			176-176	930 Hz LED Refresh Rate (Hold 1s)
			177-177	940 Hz LED Refresh Rate (Hold 1s)
			178-178	950 Hz LED Refresh Rate (Hold 1s)
			179-179	960 Hz LED Refresh Rate (Hold 1s)
			180-180	970 Hz LED Refresh Rate (Hold 1s)
			181-181	980 Hz LED Refresh Rate (Hold 1s)
			182-182	990 Hz LED Refresh Rate (Hold 1s)
			183-183	1000 Hz LED Refresh Rate (Hold 1s)
			184-184	1010 Hz LED Refresh Rate (Hold 1s)
			185-185	1020 Hz LED Refresh Rate (Hold 1s)
			186-186	1030 Hz LED Refresh Rate (Hold 1s)
			187-187	1040 Hz LED Refresh Rate (Hold 1s)
			188-188	1050 Hz LED Refresh Rate (Hold 1s)
			189-189	1060 Hz LED Refresh Rate (Hold 1s)
190-190	1070 Hz LED Refresh Rate (Hold 1s)			
191-191	1080 Hz LED Refresh Rate (Hold 1s)			
192-192	1090 Hz LED Refresh Rate (Hold 1s)			
193-193	1100 Hz LED Refresh Rate (Hold 1s)			
194-194	1110 Hz LED Refresh Rate (Hold 1s)			
195-195	1120 Hz LED Refresh Rate (Hold 1s)			

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MODE / CHANNEL			VALUE	FUNCTION
Basic (30)	Standard (34)	Extended (45)		
				<b>Special Function</b>
			196-196	1130 Hz LED Refresh Rate (Hold 1s)
			197-197	1140 Hz LED Refresh Rate (Hold 1s)
			198-198	1150 Hz LED Refresh Rate (Hold 1s)
			199-199	1160 Hz LED Refresh Rate (Hold 1s)
			200-200	1170 Hz LED Refresh Rate (Hold 1s)
			201-201	1180 Hz LED Refresh Rate (Hold 1s)
			202-202	1190 Hz LED Refresh Rate (Hold 1s)
			203-203	1210 Hz LED Refresh Rate (Hold 1s)
			204-204	1220 Hz LED Refresh Rate (Hold 1s)
			205-205	1230 Hz LED Refresh Rate (Hold 1s)
			206-206	1240 Hz LED Refresh Rate (Hold 1s)
			207-207	1250 Hz LED Refresh Rate (Hold 1s)
			208-208	1260 Hz LED Refresh Rate (Hold 1s)
			209-209	1270 Hz LED Refresh Rate (Hold 1s)
			210-210	1280 Hz LED Refresh Rate (Hold 1s)
			211-211	1290 Hz LED Refresh Rate (Hold 1s)
			212-212	1300 Hz LED Refresh Rate (Hold 1s)
			213-213	1310 Hz LED Refresh Rate (Hold 1s)
			214-214	1320 Hz LED Refresh Rate (Hold 1s)
			215-215	1330 Hz LED Refresh Rate (Hold 1s)
			216-216	1340 Hz LED Refresh Rate (Hold 1s)
			217-217	1350 Hz LED Refresh Rate (Hold 1s)
			218-218	1360 Hz LED Refresh Rate (Hold 1s)
			219-219	1370 Hz LED Refresh Rate (Hold 1s)
			220-220	1380 Hz LED Refresh Rate (Hold 1s)
			221-221	1390 Hz LED Refresh Rate (Hold 1s)
30	34	45	222-222	1400 Hz LED Refresh Rate (Hold 1s)
			223-223	1410 Hz LED Refresh Rate (Hold 1s)
			224-224	1420 Hz LED Refresh Rate (Hold 1s)
			225-225	1430 Hz LED Refresh Rate (Hold 1s)
			226-226	1440 Hz LED Refresh Rate (Hold 1s)
			227-227	1450 Hz LED Refresh Rate (Hold 1s)
			228-228	1460 Hz LED Refresh Rate (Hold 1s)
			229-229	1470 Hz LED Refresh Rate (Hold 1s)
			230-230	1480 Hz LED Refresh Rate (Hold 1s)
			231-231	1490 Hz LED Refresh Rate (Hold 1s)
			232-232	1500 Hz LED Refresh Rate (Hold 1s)
			233-233	2500 Hz LED Refresh Rate (Hold 1s)
			234-234	4000 Hz LED Refresh Rate (Hold 1s)
			235-235	5000 Hz LED Refresh Rate (Hold 1s)
			236-236	6000 Hz LED Refresh Rate (Hold 1s)
			237-237	10,000 Hz LED Refresh Rate (Hold 1s)
			238-238	15,000 Hz LED Refresh Rate (Hold 1s)
			239-239	20,000 Hz LED Refresh Rate (Hold 1s)
			240-240	25,000 Hz LED Refresh Rate (Hold 1s)
			241-241	Internal program 1 (scenes 1~8) (Hold 3s)
			242-242	Internal program 2 (scenes 9~16) (Hold 3s)
			243-243	Internal program 3 (scenes 17~24) (Hold 3s)
			244-244	Internal program 4 (scenes 25~32) (Hold 3s)
			245-245	Internal program 5 (scenes 33~40) (Hold 3s)
			246-246	Internal program 6 (scenes 41~48) (Hold 3s)
			247-247	Internal program 7 (scenes 49~56) (Hold 3s)
			248-250	Enable CT Mode (Hold 3s)
			251-253	Disable CT Mode (Hold 5s)
			254-255	No function

# DMX TRAITS: COLOR TEMPERATURE

DMX VALUE	COLOR TEMPERATURE (K)	DMX VALUE	COLOR TEMPERATURE (K)
24	2700	44	4700
25	2800	45	4800
26	2900	46	4900
27	3000	47	5000
28	3100	48	5100
29	3200	49	5200
30	3300	50	5300
31	3400	51	5400
32	3500	52	5500
33	3600	53	5600
34	3700	54	5700
35	3800	55	5800
36	3900	56	5900
37	4000	57	6000
38	4100	58	6100
39	4200	59	6200
40	4300	60	6300
41	4400	61	6400
42	4500	62	6500
43	4600	63	6600