

## HURACAN-X :

### DMX channel's functions and their values (70DMX channels):

Mode/Channel			Value	Function
St	Ba	Ex		
1	1	1		<b>PAN Movement 8bit :</b>
			0-255	Pan Movement
2		2		<b>Pan Fine 16bit</b>
			0-255	Fine control of Pan movement
3	2	3		<b>TILT Movement 8bit :</b>
			0-255	Tilt Movement
4		4		<b>Tilt Fine 16bit</b>
			0-255	Fine control of Tilt movement
5	3	5		<b>Speed Pan/Tilt movement:</b>
			0-225	max to min speed
			226-235	blackout by movement
			236-245	blackout by all wheel changing
6	4	6	246-255	no function
				<b>Shutter, strobe:</b>
			0-10	Shutter closed
			11-20	No function (shutter open)
			21-117	Strobe effect slow to fast
			118-126	No function (shutter open)
			127-180	Pulse-effect in sequences
			181-191	No function (shutter open)
192-245	Random strobe effect slow to fast			
7	5	7	246-255	No function (shutter open)
				<b>Dimmer intensity:</b>
		8	0-255	Intensity 0 to 100%
		8		<b>Fine Dimmer intensity:</b>
		8	0-255	Dimmer intensity fine
8	6	9		<b>Zoom :</b>
			0-255	Zoom adjustment from small to big
		10		<b>Zoom Fine:</b>
		10	0-255	Zoom adjustment Fine
9	7	11		<b>Focus :</b>
			0-255	Continuous adjustment from near to far
		12		<b>Focus Fine:</b>
		12	0-255	Continuous adjustment Fine
10	8	13		<b>Auto Focus :</b>
			0-50	Auto Focus Off
			51-100	5m
			101-150	7.5m
			151-200	10m
		14	201-255	15m
11	9	14		<b>AutoFocus Fine:</b>
			0-255	Continuous adjustment Fine

12	10	15		<b>Color Wheel:</b>
			0-3	Open / white
			4-7	Color 1
			8-11	Color 2
			12-15	Color 3
			16-19	Color 4
			20-23	Color 5
			24-27	Color 6
			28-127	Color indexing
			128-189	Forwards rainbow effect from fast to slow
			190-193	No rotation
		16		<b>Color Wheel Fine:</b>
			0-255	Color Wheel colour change to any position Fine
13	11	17		<b>Cyan Color :</b>
			0-255	Cyan (0-white, 255-100% Cyan)
		18		<b>Cyan Color Fine :</b>
			0-255	Cyan Fine
14	12	19		<b>Magenta Color :</b>
			0-255	Magenta (0-white, 255-100% magenta)
		20		<b>Magenta Color Fine :</b>
			0-255	Magenta Fine
15	13	21		<b>Yellow Color :</b>
			0-255	Yellow (0-white, 255-100% Yellow)
		22		<b>Yellow Color Fine :</b>
			0-255	Yellow Fine
16	14	23		<b>CTO Color :</b>
			0-255	CTO (0-white, 255-100% CTO)
		24		<b>CTO Color Fine :</b>
			0-255	CTO Fine
17	15	25		<b>CTB Color :</b>
			0-255	CTB (0-white, 255-100% CTO)
		26		<b>CTB Color Fine :</b>
			0-255	CTB Fine
18	16	27		<b>CTP Color :</b>
			0-255	CTP (0-white, 255-100% CTO)
		28		<b>CTP Color Fine :</b>
			0-255	CTP Fine
19	17	29		<b>Color Presets:</b>
			0-255	See Appendix
20	18	30		<b>Chase Patterns:</b>
			0-9	Open
			10-19	Chase 1
			20-29	Chase 2
			30-39	Chase 3
			40-49	Chase 4
			50-59	Chase 5
			60-69	Chase 6
			70-79	Chase 7
			80-89	Chase 8
			90-99	Chase 9
			100-109	Chase 10
			110-119	Chase 11
			120-129	Chase 12
130-139	Chase 13			
140-255	Reserved			

21	19	31	0-125 126-130 131-255	<b>Chase Speed:</b> Fast to Slow Backward Stop(Speed=0) Slow to Fast Forward
22	20	32	0-255	<b>Chase Fade:</b> Fade Chase
23	21	33		<b>Rotating gobos, cont. rotation 1:</b>
			0-9	Open
			10-19	Rot. gobo 1
			20-29	Rot. gobo 2
			30-39	Rot. gobo 3
			40-49	Rot. gobo 4
			50-59	Rot. gobo 5
			60-69	Rot. gobo 6
			70-77	Rot. Gobo 7
			78-93	Gobo 1 shake slow to fast
			94-109	Gobo 2 shake slow to fast
			110-125	Gobo 3 shake slow to fast
			126-141	Gobo 4 shake slow to fast
			142-157	Gobo 5 shake slow to fast
			158-173	Gobo 6 shake slow to fast
			174-189	Gobo 7 shake slow to fast
			190-221	Gobo wheel rotation forwards from fast to slow
222-223	No rotation			
224-255	Gobo wheel rotation f backwards from slow to fast			
24	22	34		<b>Rotating gobo index,rotating gobo rotation 1:</b>
			0-127	Gobo indexing
			128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
		35		<b>Rotating gobo indexing Fine 1:</b>
25	23	36	0-255	Fine indexing
				<b>Rotating gobos, cont. rotation 2:</b>
			0-9	Open
			10-19	Rot. gobo 1
			20-29	Rot. gobo 2
			30-39	Rot. gobo 3
			40-49	Rot. gobo 4
			50-59	Rot. gobo 5
			60-69	Rot. gobo 6
			70-77	Rot. Gobo 7
			78-93	Gobo 1 shake slow to fast
			94-109	Gobo 2 shake slow to fast
			110-125	Gobo 3 shake slow to fast
			126-141	Gobo 4 shake slow to fast
			142-157	Gobo 5 shake slow to fast
			158-173	Gobo 6 shake slow to fast
			174-189	Gobo 7 shake slow to fast
190-221	Gobo wheel rotation forwards from fast to slow			
222-223	No rotation			
224-255	Gobo wheel rotation f backwards from slow to fast			
26	24	37		<b>Rotating gobo index,rotating gobo rotation 2:</b>
			0-127	Gobo indexing
			128-189	Forwards gobo rotation from fast to slow
			190-193	No rotation
		38		<b>Rotating gobo indexing Fine 2:</b>
			0-255	Fine indexing

27	25	39		<b>Animation wheel 1:</b>
			0-7	No rotation
			8-127	Forwards rotation from fast to slow
			128-135	No rotation
			136-255	Backwards rotation from slow to fast
28	26	40		<b>Animation wheel 2:</b>
			0-255	Animation indexing
29	27	41		<b>Rotating Animation wheel 2:</b>
			0-7	No rotation
			8-127	Forwards rotation from fast to slow
			128-135	No rotation
			136-255	Backwards rotation from slow to fast
30	28	42		<b>Iris:</b>
			0-191	Max. diameter to Min.diameter
			192-223	Pulse closing fast to slow
			224-255	Pulse opening slow to fast
		43		<b>Iris Fine:</b>
			0-255	Iris Fine
31	29	44		<b>Prism 1:</b>
			0-127	Open
			128-255	5-Facet Prism
32	30	45		<b>Rotating prism index, rotating prism rotation 1</b>
			0-127	Prism indexing
			128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		46		<b>Rotating prism indexing Fine 1:</b>
			0-255	Fine indexing
33	31	47		<b>Prism 2:</b>
			0-127	Open
			128-255	Linear Prism
34	32	48		<b>Rotating prism index, rotating prism rotation 2</b>
			0-127	Prism indexing
			128-189	Forwards prism rotation from fast to slow
			190-193	No rotation
			194-255	Backwards prism rotation from slow to fast
		49		<b>Rotating prism indexing Fine 2:</b>
			0-255	Fine indexing
35	33	50		<b>Frost 1:</b>
			0-255	0-100%
36	34	51		<b>Frost 2:</b>
			0-255	0-100%
37	35	52		<b>Blade 1A:</b>
			0-255	Open to Close
		53		<b>Blade 1A Fine :</b>
			0-255	Open to Close Fine
38	36	54		<b>Blade 1B :</b>
			0-255	Open to Close
		55		<b>Blade 1B Fine :</b>
			0-255	Open to Close Fine
39	37	56		<b>Blade 2A:</b>
			0-255	Open to Close
		57		<b>Blade 2A Fine :</b>
			0-255	Open to Close Fine
40	38	58		<b>Blade 2B :</b>
			0-255	Open to Close
		59		<b>Blade 2B Fine :</b>
			0-255	Open to Close Fine

41	39	60		<b>Blade 3A :</b>
			0-255	Open to Close
		61		<b>Blade 3A Fine :</b>
			0-255	Open to Close Fine
42	40	62		<b>Blade 3B :</b>
			0-255	Open to Close
		63		<b>Blade 3B Fine :</b>
			0-255	Open to Close Fine
43	41	64		<b>Blade 4A :</b>
			0-255	Open to Close
		65		<b>Blade 4A Fine :</b>
			0-255	Open to Close Fine
44	42	66		<b>Blade 4B :</b>
			0-255	Open to Close
		67		<b>Blade 4B Fine :</b>
			0-255	Open to Close Fine
45	43	68		<b>All Blade Rotation :</b>
			0-255	All Blade Rotation
		69		<b>All Blade Rotation Fine :</b>
			0-255	All Blade Rotation Fine
46	44	70		<b>Control, reset, internal programs:</b>
			0-4	unused
			5-9	Display Off
			10-14	Display On
			15-19	Display Invert Off
			20-24	Display Invert On
			25-29	Auto fan control mode
			30-34	Stage fan control mode
			35-39	Studio fan control mode
			40-44	Silence fan control mode
			45-49	Square Law
			50-54	Linear
			55-57	1.2K
			58-60	2.4K
			61-63	16K
			64-69	25K
			70-74	Gobo correction Off
			75-79	Gobo correction On
			80-84	All motor reset
			85-87	Scan motor reset
			88-90	Colors motor reset
			91-93	Gobo motor reset
			94-96	unused
			97-99	Other motor reset
			100-119	Internal program 1 (scene1~8 of EEPROM)
			120-139	Internal program 2 (scene9~16 of EEPROM)
			140-159	Internal program 3 (scene17~24 of EEPROM)
			160-179	Internal program 4 (scene25~32 of EEPROM)
			180-199	Internal program 5 (scene33~40 of EEPROM)
			200-219	Internal program 6 (scene41~48 of EEPROM)
			220-239	Internal program 7 (scene49~56 of EEPROM)
			240-255	Internal program 8 (scene57~64 of EEPROM)

## Appendix

name (=DMX value)	color name
EC003	LAVENDER TINT
EC004	MEDIUM BASTARD AMBER
EC007	PALE YELLOW
EC008	DARK SALMON
EC009	PALE AMBER GOLD
EC010	MEDIUM YELLOW
EC013	STRAW TINT
EC015	DEEP STRAW
EC017	SURPRISE PEACH
EC020	MEDIUM AMBER
EC021	GOLD AMBER
EC022	DARK AMBER
EC024	SCARLET
EC025	SUNSET RED
EC026	BRIGHT RED
EC029	PLASA RED
EC035	LIGHT PINK
EC036	MEDIUM PINK
EC046	DARK MAGENTA
EC048	DARK PURPLE
EC052	LIGHT LAVENDER
EC053	PALE LAVENDER
EC058	LAVENDER
EC063	PALE BLUE
EC068	SKY BLUE
EC071	TOKYO BLUE
EC075	EVENING BLUE
EC079	JUST BLUE
EC085	DEEPER BLUE
EC088	LIME GREEN
EC089	MOSS GREEN
EC090	DARKYELLOW GREEN
EC100	SPRING YELLOW
EC101	YELLOW
EC102	LIGHT AMBER
EC103	STRAW
EC104	DEEP AMBER
EC105	ORANGE
EC106	PRIMAY RED
EC107	LIGHT ROSE
EC108	ENGLISH ROSE
EC109	LIGHT SALMON
EC110	MIDDLE ROSE
EC111	DARK PINK
EC113	MAGENTA
EC116	MEDIUM BLUE GREEN
EC118	LIGHT BLUE
EC119	DARK BLUE
EC120	DEEP BLUE
EC124	DARK GREEN
EC126	MAUVE
EC127	SMOKEY PINK
EC128	BRIGHT PINK
EC132	MEDIUM BLUE
EC134	GOLDEN AMBER
EC136	PALE LAVENDER
EC137	SPECIAL LAVENDER
EC138	PALE GREEN
EC139	PRIMARY GREEN
EC140	SUMMER BLUE
EC141	BRIGHT BLUE
EC142	PALE VIOLET
EC143	PALE NAVY BLUE

EC147	APRICOT
EC148	BRIGHT ROSE
EC151	GOLD TINT
EC152	PALE GOLD
EC153	PALE SALMON
EC154	PALE ROSE
EC156	CHOCOLATE
EC158	DEEP ORANGE
EC159	NO COLOR STRAW
EC161	SLATE BLUE
EC162	BASTARD AMBER
EC164	FLAME RED
EC165	DAYLIGHT BLUE
EC169	LILAC TINT
EC170	DEEP LAVENDER
EC172	LAGOON BLUE
EC174	DARK STEEL BLUE
EC176	LOVING AMBER
EC179	CHROME ORANGE
EC180	DARK LAVENDER
EC181	CONGO BLUE
EC182	LIGHT RED
EC183	MOONLIGHT BLUE
EC192	FLESH PINK
EC193	ROSY AMBER
EC194	SURPRISE PINK
EC195	ZENITH BLUE
EC196	TRUE BLUE
EC197	ALICE BLUE
EC198	PALACE BLUE