



## PERSEO

### DMX channel's functions and their values (61DMX channels):

St	Ba	Ex	Value	Function
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
			246-255	no function
6	4	6		<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
246-255	No function (shutter open)			
7	5	7		<b>Dimmer intensity:</b>
			0-255	Intensity 0 to 100%
		8		<b>Fine Dimmer intensity:</b>
			0-255	Dimmer intensity fine
8	6	9		<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			

9	7	10	0-125 126-130 131-255	<b>Chase Speed:</b> Fast to Slow Backward Stop(Speed=0) Slow to Fast Forward
10	8	11	0-255	<b>Chase Fade:</b> Fade Chase
11	9	12	0-255	<b>Zoom :</b> Zoom adjustment from small to big
		13	0-255	<b>Zoom Fine:</b> Zoom adjustment Fine
12	10	14	0-255	<b>Focus :</b> Continuous adjustment from near to far
		15	0-255	<b>Focus Fine:</b> Continuous adjustment Fine
13	11	16	0-50 51-100 101-150 151-200 201-255	<b>Auto Focus :</b> Auto Focus Off 5m 7.5m 10m 15m
14	12	17	0-255	<b>AutoFocus Fine:</b> Continuous adjustment Fine
15	13	18	0-3 4-7 8-11 12-15 16-19 20-23 24-27 28-31 32-127 128-189 190-193 194-255	<b>Color Wheel:</b> Open / white Color 1 Color 2 Color 3 Color 4 Color 5 Color 6 Color 7 Color indexing Forwards rainbow effect from fast to slow No rotation Backwards rainbow effect from slow to fast
		19	0-255	<b>Color Wheel Fine:</b> Color Wheel colour change to any position Fine
16	14	20	0-255	<b>Cyan Color :</b> Cyan (0-white, 255-100% Cyan)
		21	0-255	<b>Cyan Color Fine :</b> Cyan Fine
17	15	22	0-255	<b>Magenta Color :</b> Magenta (0-white, 255-100% magenta)
		23	0-255	<b>Magenta Color Fine :</b> Magenta Fine
18	16	24	0-255	<b>Yellow Color :</b> Yellow (0-white, 255-100% Yellow)
		25	0-255	<b>Yellow Color Fine :</b> Yellow Fine
19	17	26	0-255	<b>CTO Color :</b> CTO (0-white, 255-100% CTO)
		27	0-255	<b>CTO Color Fine :</b> CTO Fine

20	18	28		<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			
21	19	29		<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
194-255	Backwards gobo rotation from slow to fast			
		30		<b>Rotating gobo indexing Fine 1:</b>
			0-255	Fine indexing
22	20	31		<b>Fixed Gobo2 :</b>
			0-13	open
			14-18	Gobo 1
			19-23	Gobo 2
			24-28	Gobo 3
			29-33	Gobo 4
			34-38	Gobo 5
			39-43	Gobo 6
			44-48	Gobo 7
			49-53	Gobo 8
			54-58	Gobo 9
			59-63	Gobo 10
			64-68	Gobo 11
			69-79	Gobo 1 shake slow to fast
			80-90	Gobo 2 shake slow to fast
			91-101	Gobo 3 shake slow to fast
			102-112	Gobo 4 shake slow to fast
			113-123	Gobo 5 shake slow to fast
			124-134	Gobo 6 shake slow to fast
			135-145	Gobo 7 shake slow to fast
			146-156	Gobo 8 shake slow to fast
			157-167	Gobo 9 shake slow to fast
168-178	Gobo 10 shake slow to fast			
179-189	Gobo 11 shake slow to fast			
190-221	Clock-wise scroll from fast to slow			
222-223	Reserved			
224-255	Counter clock-wise scroll from slow to fast			

23	21	32	<b>Animation wheel:</b>
			0-7 open
			8-127 Forwards rotation from fast to slow
			128-135 No rotation
24	22	33	136-255 Backwards rotation from slow to fast
			<b>Iris:</b>
			0-191 Max. diameter to Min.diameter
			192-223 Pulse closing fast to slow
25	23	34	224-255 Pulse opening slow to fast
			<b>Iris Fine:</b>
			0-255 Iris Fine
26	24	35	<b>Prism 1:</b>
			0-127 Open
			128-255 5-Facet Prism
			<b>Rotating prism index, rotating prism rotation 1</b>
27	25	36	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
28	26	37	<b>Rotating prism indexing Fine 1:</b>
			0-255 Fine indexing
			<b>Prism 2:</b>
29	27	38	0-127 Open
			128-255 Linear Prism
			<b>Rotating prism index, rotating prism rotation 2</b>
			0-127 Prism indexing
30	28	39	128-189 Forwards prism rotation from fast to slow
			190-193 No rotation
			194-255 Backwards prism rotation from slow to fast
			<b>Rotating prism indexing Fine 2:</b>
31	29	40	0-255 Fine indexing
			<b>Frost 1:</b>
			0-255 0-100%
32	30	41	<b>Frost 2:</b>
			0-255 0-100%
			<b>Blade 1A :</b>
33	31	42	0-255 Open to Close
			<b>Blade 1A Fine :</b>
			0-255 Open to Close Fine
34	32	43	<b>Blade 1B :</b>
			0-255 Open to Close
			<b>Blade 1B Fine :</b>
35	33	44	0-255 Open to Close Fine
			<b>Blade 2A :</b>
			0-255 Open to Close
36	34	45	<b>Blade 2A Fine :</b>
			0-255 Open to Close Fine
			<b>Blade 2B :</b>
37	35	46	0-255 Open to Close
			<b>Blade 2B Fine :</b>
			0-255 Open to Close Fine
38	36	47	<b>Blade 3A :</b>
			0-255 Open to Close
			<b>Blade 3A Fine :</b>
39	37	48	0-255 Open to Close Fine
			<b>Blade 3B :</b>
			0-255 Open to Close
40	38	49	<b>Blade 3B Fine :</b>
			0-255 Open to Close Fine
			<b>Blade 4A :</b>
41	39	50	0-255 Open to Close
			<b>Blade 4A Fine :</b>
			0-255 Open to Close Fine
42	40	51	<b>Blade 4B :</b>
			0-255 Open to Close
			<b>Blade 4B Fine :</b>
43	41	52	0-255 Open to Close Fine
			<b>All Blade Rotation :</b>
			0-255 All Blade Rotation
44	42	53	<b>All Blade Rotation Fine :</b>
			0-255 All Blade Rotation Fine
			0-255 All Blade Rotation Fine

40	38	61	<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
			55-59 1.2K
			60-64 2.4K
			65-69 16K
			<b>70-74 Gobo correction Off</b>
			<b>75-79 Gobo correction On</b>
			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)			

Ghibli Mode		
1		<b>PAN Movement 8bit :</b>
	0-255	Pan Movement
2		<b>Pan Fine 16bit</b>
	0-255	Fine control of Pan movement
3		<b>TILT Movement 8bit :</b>
	0-255	Tilt Movement
4		<b>Tilt Fine 16bit</b>
	0-255	Fine control of Tilt movement
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
	246-255	no function
6		<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
246-255	No function (shutter open)	
7		<b>Dimmer intensity:</b>
	0-255	Intensity 0 to 100%
8		<b>Fine Dimmer intensity:</b>
	0-255	Dimmer intensity fine
9		<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	
10		<b>Chase Speed:</b>
	0-125	Fast to Slow Backward
	126-130	Stop(Speed=0)
	131-255	Slow to Fast Forward
11		<b>Chase Fade:</b>
	0-255	Fade Chase
12		<b>Zoom :</b>
	0-255	Zoom adjustment from small to big
13		<b>Zoom Fine:</b>
	0-255	Zoom adjustment Fine
14		<b>Focus :</b>
	0-255	Continuous adjustment from near to far
15		<b>Focus Fine:</b>
	0-255	Continuous adjustment Fine
16		<b>Auto Focus :</b>
	0-50	Auto Focus Off
	51-100	5m
	101-150	7.5m
	151-200	10m
	201-255	15m
17		<b>AutoFocus Fine:</b>
	0-255	Continuous adjustment Fine

		<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
	27-127	Color indexing
	128-189	Forwards rainbow effect from fast to slow
	190-193	No rotation
	194-255	Backwards rainbow effect from slow to fast
18		
		<b>Color Wheel Fine:</b>
19	0-255	Color Wheel colour change to any position Fine
		<b>Cyan Color :</b>
20	0-255	Cyan (0-white, 255-100% Cyan)
		<b>Cyan Color Fine :</b>
21	0-255	Cyan Fine
		<b>Magenta Color :</b>
22	0-255	Magenta (0-white, 255-100% magenta)
		<b>Magenta Color Fine :</b>
23	0-255	Magenta Fine
		<b>Yellow Color :</b>
24	0-255	Yellow (0-white, 255-100% Yellow)
		<b>Yellow Color Fine :</b>
25	0-255	Yellow Fine
		<b>CTO Color :</b>
26	0-255	CTO (0-white, 255-100% CTO)
		<b>CTO Color Fine :</b>
27	0-255	CTO Fine
		<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
		<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
	194-255	Backwards gobo rotation from slow to fast
		<b>Rotating gobo indexing Fine 1:</b>
28	0-255	Fine indexing
29		
	0-127	Gobo indexing
	128-189	Forwards gobo rotation from fast to slow
	190-193	No rotation
	194-255	Backwards gobo rotation from slow to fast
		<b>Rotating gobo indexing Fine 1:</b>
30	0-255	Fine indexing

		<b>Fixed Gobo2 :</b>
	0-21	open
	22-31	Gobo 1
	32-41	Gobo 2
	42-51	Gobo 3
	52-61	Gobo 4
	62-71	Gobo 5
	72-81	Gobo 6
	82-91	Gobo 7
	92-101	Gobo 8
31	102-112	Gobo 1 shake slow to fast
	113-123	Gobo 2 shake slow to fast
	124-134	Gobo 3 shake slow to fast
	135-145	Gobo 4 shake slow to fast
	146-156	Gobo 5 shake slow to fast
	157-167	Gobo 6 shake slow to fast
	168-178	Gobo 7 shake slow to fast
	179-189	Gobo 8 shake slow to fast
	190-221	Clock-wise scroll from fast to slow
	222-223	Reserved
	224-255	Counter clock-wise scroll from slow to fast
		<b>Animation wheel:</b>
	0-7	open
32	8-127	Forwards rotation from fast to slow
	128-135	No rotation
	136-255	Backwards rotation from slow to fast
		<b>Iris:</b>
33	0-191	Max. diameter to Min.diameter
	192-223	Pulse closing fast to slow
	224-255	Pulse opening slow to fast
34		<b>Iris Fine:</b>
	0-255	Iris Fine
35		<b>Prism 1:</b>
	0-127	Open
	128-255	5-Facet Prism
		<b>Rotating prism index, rotating prism rotation 1</b>
36	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
37		<b>Rotating prism indexing Fine 1:</b>
	0-255	Fine indexing
38		<b>Frost 1:</b>
	0-255	0-100%
39		<b>Frost 2:</b>
	0-255	0-100%
40		<b>Blade 1A :</b>
	0-255	Open to Close
41		<b>Blade 1A Fine :</b>
	0-255	Open to Close Fine
42		<b>Blade 1B :</b>
	0-255	Open to Close
43		<b>Blade 1B Fine :</b>
	0-255	Open to Close Fine
44		<b>Blade 2A :</b>
	0-255	Open to Close
45		<b>Blade 2A Fine :</b>
	0-255	Open to Close Fine
46		<b>Blade 2B :</b>
	0-255	Open to Close
47		<b>Blade 2B Fine :</b>
	0-255	Open to Close Fine
48		<b>Blade 3A :</b>
	0-255	Open to Close
49		<b>Blade 3A Fine :</b>
	0-255	Open to Close Fine
50		<b>Blade 3B :</b>
	0-255	Open to Close
51		<b>Blade 3B Fine :</b>
	0-255	Open to Close Fine
52		<b>Blade 4A :</b>
	0-255	Open to Close
53		<b>Blade 4A Fine :</b>
	0-255	Open to Close Fine
54		<b>Blade 4B :</b>
	0-255	Open to Close
55		<b>Blade 4B Fine :</b>
	0-255	Open to Close Fine
56		<b>All Blade Rotation :</b>
	0-255	All Blade Rotation
57		<b>All Blade Rotation Fine :</b>
	0-255	All Blade Rotation Fine



		<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
	55-59	1.2K
	60-64	2.4K
	65-69	16K
58	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)