

**KARIF (from Software V201)**

**DMX channel's functions and their values (46/34/40/30DMX channels):**

Mode/Channel		Value	Function
Ext	Std		
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	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	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	6		<b>Pan Motor continuous rotation</b>
		0-63	stop rotation by spinout
		64-127	stop rotation by shortcut
		128-189	Forwards Pan rotation from fast to slow
		190-193	No rotation
		194-255	Backwards Pan rotation from slow to fast
7	7		<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)
8	8		<b>Dimmer intensity:</b>
		0-255	Intensity 0 to 100%
9			<b>Fine Dimmer intensity:</b>
		0-255	Dimmer intensity fine
10	9		Reserved
11	10		Reserved
12	11		Reserved
13	12		<b>Zoom :</b>
		0-255	Zoom adjustment from small to big
14			<b>Zoom Fine:</b>
		0-255	Zoom adjustment Fine
15	13		<b>Focus :</b>
		0-255	Continuous adjustment from near to far
16			<b>Focus Fine:</b>
		0-255	Continuous adjustment Fine

17	14		<b>Auto Focus :</b>
		0-50	Auto Focus Off
		51-100	5m
		101-150	7.5m
		151-200	10m
		201-255	15m
18	15		<b>AutoFocus Fine:</b>
		0-255	Continuous adjustment Fine
19	16		<b>Color Wheel :</b>
		0-63	CTO (0-white, 255-100% CTO)
		64	Color 1
		65	Color 2
		66	Color 3
		67	Color 4
		68	Color 5
		69	Color 6
		70	Color 7
		71	Color 8
		72	Color 9
		73	Color 10
		74	Color 11
		75	Color 12
		76	Color 13
		77-127	Color indexing
		128-189	Forwards rainbow effect from fast to slow
		190-193	No rotation
		194-255	Backwards rainbow effect from slow to fast
20			<b>Color Wheel Fine:</b>
		0-255	Color Wheel colour change to any position Fine
21	17		<b>Cyan Color :</b>
		0-255	Cyan (0-white, 255-100% Cyan)
22			<b>Cyan Color Fine :</b>
		0-255	Cyan Fine
23	18		<b>Magenta Color :</b>
		0-255	Magenta (0-white, 255-100% magenta)
24			<b>Magenta Color Fine :</b>
		0-255	Magenta Fine
25	19		<b>Yellow Color :</b>
		0-255	Yellow (0-white, 255-100% Yellow)
26			<b>Yellow Color Fine :</b>
		0-255	Yellow Fine
27	20		<b>Rotating gobos, cont. rotation :</b>
		0-9	Open
		10-18	Rot. gobo 1
		19-27	Rot. gobo 2
		28-36	Rot. gobo 3
		37-45	Rot. gobo 4
		46-54	Rot. gobo 5
		55-63	Rot. gobo 6
		64-72	Rot. gobo 7
		73-81	Rot. gobo 8
		82-90	Rot. gobo 9
		91-101	Gobo 1 shake slow to fast
		102-112	Gobo 2 shake slow to fast
		113-123	Gobo 3 shake slow to fast
		124-134	Gobo 4 shake slow to fast
		135-145	Gobo 5 shake slow to fast
		146-156	Gobo 6 shake slow to fast
		157-167	Gobo 7 shake slow to fast
		168-178	Gobo 8 shake slow to fast
		179-189	Gobo 9 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

28	21		<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
29			<b>Rotating gobo indexing Fine :</b>
		0-255	Fine indexing
30	22		<b>Fixed Gobo:</b>
		0-31	Open
		32	Gobo 1
		33	Gobo 2
		34	Gobo 3
		35	Gobo 4
		36	Gobo 5
		37	Gobo 6
		38	Gobo 7
		39	Gobo 8
		40	Gobo 9
		41	Gobo 10
		42	Gobo 11
		43	Gobo 12
		44	Gobo 13
		45	Gobo 14
		46	Gobo 15
		47	Gobo 16
		48	Gobo 17
		49	Gobo 18
		50	Gobo 19
		51	Open
		52	Gobo 20
		53	Gobo 21
		54	Gobo 22
		55	Gobo 23
		56	Gobo 24
		57	Gobo 25
		58	Gobo 26
		59	Gobo 27
		60	Gobo 28
		61	Gobo 29
		62	Gobo 30
		63	Gobo 31
		64	Gobo 32
		65	Open
		66	Gobo 33
		67	Gobo 34
		68	Gobo 35
		69	Gobo 36
		70	Gobo 37
		71	Gobo 38
		72	Gobo 39

		73-75	Gobo 1 shake slow to fast
		76-78	Gobo 2 shake slow to fast
		79-81	Gobo 3 shake slow to fast
		82-84	Gobo 4 shake slow to fast
		85-87	Gobo 5 shake slow to fast
		88-90	Gobo 6 shake slow to fast
		91-93	Gobo 7 shake slow to fast
		94-96	Gobo 8 shake slow to fast
		97-99	Gobo 9 shake slow to fast
		100-102	Gobo 10 shake slow to fast
		103-105	Gobo 11 shake slow to fast
		106-108	Gobo 12 shake slow to fast
		109-111	Gobo 13 shake slow to fast
		112-114	Gobo 14 shake slow to fast
		115-117	Gobo 15 shake slow to fast
		118-120	Gobo 16 shake slow to fast
		121-123	Gobo 17 shake slow to fast
		124-126	Gobo 18 shake slow to fast
		127-129	Gobo 19 shake slow to fast
		130-132	Gobo 20 shake slow to fast
		133-135	Gobo 21 shake slow to fast
		136-138	Gobo 22 shake slow to fast
		139-141	Gobo 23 shake slow to fast
		142-144	Gobo 24 shake slow to fast
		145-147	Gobo 25 shake slow to fast
		148-150	Gobo 26 shake slow to fast
		151-153	Gobo 27 shake slow to fast
		154-156	Gobo 28 shake slow to fast
		157-159	Gobo 29 shake slow to fast
		160-162	Gobo 30 shake slow to fast
		163-165	Gobo 31 shake slow to fast
		166-168	Gobo 32 shake slow to fast
		169-171	Gobo 33 shake slow to fast
		172-174	Gobo 34 shake slow to fast
		175-177	Gobo 35 shake slow to fast
		178-180	Gobo 36 shake slow to fast
		181-183	Gobo 37 shake slow to fast
		184-186	Gobo 38 shake slow to fast
		187-189	Gobo 39 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
		8-127	Forwards rotation from fast to slow
		128-135	No rotation
		136-255	Backwards rotation from slow to fast
			<b>Prism 1:</b>
		0-127	Open
		128-255	Prism 1
			<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
			<b>Rotating prism indexing Fine 1:</b>
		0-255	Fine indexing
			<b>Prism 2:</b>
		0-127	Open
		128-255	Prism 2
			<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
			<b>Rotating prism indexing Fine 2:</b>
		0-255	Fine indexing

38	28	0-127	<b>Prism 3:</b>
		128-255	Open
			Prism 3
39	29		<b>Rotating prism index, rotating prism rotation 3</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
40			<b>Rotating prism indexing Fine 3:</b>
		0-255	Fine indexing
41	30		<b>Prism 4:</b>
		0-127	Open
		128-255	Prism 4
42	31		<b>Rotating prism index, rotating prism rotation 4</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
43			<b>Rotating prism indexing Fine 4:</b>
		0-255	Fine indexing
44	32		<b>Frost 1:</b>
		0-255	0-100%
45	33		<b>Frost 2:</b>
		0-255	0-100%
46	34		<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
		25-26	Auto fan control mode
		27-28	Stage fan control mode
		29-30	Silence fan control mode
		31-32	Super Silence fan control mode
		33-34	Constant Fans Off
		35-36	Constant Fans On
		37-44	unused
		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	unused
		95	Reset P/T Fade Off
		96	Reset P/T Fade On
		97-99	Other motor reset
		100-102	Frost Progressive Off
		103-105	Frost Progressive On
		106-255	unused

Mode/Channel		Value	Function
Ext Low	Std Low		
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	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	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	6		<b>Pan Motor continuous rotation</b>
		0-63	stop rotation by spinout
		64-127	stop rotation by shortcut
		128-189	Forwards Pan rotation from fast to slow
		190-193	No rotation
7	7		<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)
8	8		<b>Dimmer intensity:</b>
		0-255	Intensity 0 to 100%
9			<b>Fine Dimmer intensity:</b>
		0-255	Dimmer intensity fine
10	9		Reserved
11	10		Reserved
12	11		Reserved
13	12		<b>Zoom :</b>
		0-255	Zoom adjustment from small to big
14			<b>Zoom Fine:</b>
		0-255	Zoom adjustment Fine
15	13		<b>Focus :</b>
		0-255	Continuous adjustment from near to far
16			<b>Focus Fine:</b>
		0-255	Continuous adjustment Fine
17	14		<b>Auto Focus :</b>
		0-50	Auto Focus Off
		51-100	5m
		101-150	7.5m
		151-200	10m
18	15		<b>AutoFocus Fine:</b>
		0-255	Continuous adjustment Fine
			<b>Color Wheel :</b>
		0-63	CTO (0-white, 255-100% CTO)
		64	Color 1
		65	Color 2
		66	Color 3
		67	Color 4
		68	Color 5
		69	Color 6
		70	Color 7
		71	Color 8
		72	Color 9
		73	Color 10
		74	Color 11
		75	Color 12
		76	Color 13
		77-127	Color indexing
		128-189	Forwards rainbow effect from fast to slow
		190-193	No rotation
		194-255	Backwards rainbow effect from slow to fast
20			<b>Color Wheel Fine:</b>
		0-255	Color Wheel colour change to any position Fine

21	17		<b>Cyan Color :</b>
		0-255	Cyan (0-white, 255-100% Cyan)
22			<b>Cyan Color Fine :</b>
		0-255	Cyan Fine
23	18		<b>Magenta Color :</b>
		0-255	Magenta (0-white, 255-100% magenta)
24			<b>Magenta Color Fine :</b>
		0-255	Magenta Fine
25	19		<b>Yellow Color :</b>
		0-255	Yellow (0-white, 255-100% Yellow)
26			<b>Yellow Color Fine :</b>
		0-255	Yellow Fine
27	20		<b>Rotating gobos, cont. rotation :</b>
		0-9	Open
		10-18	Rot. gobo 1
		19-27	Rot. gobo 2
		28-36	Rot. gobo 3
		37-45	Rot. gobo 4
		46-54	Rot. gobo 5
		55-63	Rot. gobo 6
		64-72	Rot. gobo 7
		73-81	Rot. gobo 8
		82-90	Rot. gobo 9
		91-101	Gobo 1 shake slow to fast
		102-112	Gobo 2 shake slow to fast
		113-123	Gobo 3 shake slow to fast
		124-134	Gobo 4 shake slow to fast
		135-145	Gobo 5 shake slow to fast
		146-156	Gobo 6 shake slow to fast
		157-167	Gobo 7 shake slow to fast
		168-178	Gobo 8 shake slow to fast
		179-189	Gobo 9 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
28	21		<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
29			<b>Rotating gobo indexing Fine :</b>
		0-255	Fine indexing
30	22		<b>Fixed Gobo:</b>
		0-31	Open
		32	Gobo 1
		33	Gobo 2
		34	Gobo 3
		35	Gobo 4
		36	Gobo 5
		37	Gobo 6
		38	Gobo 7
		39	Gobo 8
		40	Gobo 9
		41	Gobo 10
		42	Gobo 11
		43	Gobo 12
		44	Gobo 13
		45	Gobo 14
		46	Gobo 15
		47	Gobo 16
		48	Gobo 17
		49	Gobo 18
		50	Gobo 19
		51	Open
		52	Gobo 20
		53	Gobo 21
		54	Gobo 22
		55	Gobo 23
		56	Gobo 24
		57	Gobo 25
		58	Gobo 26
		59	Gobo 27
		60	Gobo 28
		61	Gobo 29
		62	Gobo 30
		63	Gobo 31
		64	Gobo 32
		65	Open
		66	Gobo 33
		67	Gobo 34
		68	Gobo 35
		69	Gobo 36
		70	Gobo 37
		71	Gobo 38
		72	Gobo 39

		73-75	Gobo 1 shake slow to fast
		76-78	Gobo 2 shake slow to fast
		79-81	Gobo 3 shake slow to fast
		82-84	Gobo 4 shake slow to fast
		85-87	Gobo 5 shake slow to fast
		88-90	Gobo 6 shake slow to fast
		91-93	Gobo 7 shake slow to fast
		94-96	Gobo 8 shake slow to fast
		97-99	Gobo 9 shake slow to fast
		100-102	Gobo 10 shake slow to fast
		103-105	Gobo 11 shake slow to fast
		106-108	Gobo 12 shake slow to fast
		109-111	Gobo 13 shake slow to fast
		112-114	Gobo 14 shake slow to fast
		115-117	Gobo 15 shake slow to fast
		118-120	Gobo 16 shake slow to fast
		121-123	Gobo 17 shake slow to fast
		124-126	Gobo 18 shake slow to fast
		127-129	Gobo 19 shake slow to fast
		130-132	Gobo 20 shake slow to fast
		133-135	Gobo 21 shake slow to fast
		136-138	Gobo 22 shake slow to fast
		139-141	Gobo 23 shake slow to fast
		142-144	Gobo 24 shake slow to fast
		145-147	Gobo 25 shake slow to fast
		148-150	Gobo 26 shake slow to fast
		151-153	Gobo 27 shake slow to fast
		154-156	Gobo 28 shake slow to fast
		157-159	Gobo 29 shake slow to fast
		160-162	Gobo 30 shake slow to fast
		163-165	Gobo 31 shake slow to fast
		166-168	Gobo 32 shake slow to fast
		169-171	Gobo 33 shake slow to fast
		172-174	Gobo 34 shake slow to fast
		175-177	Gobo 35 shake slow to fast
		178-180	Gobo 36 shake slow to fast
		181-183	Gobo 37 shake slow to fast
		184-186	Gobo 38 shake slow to fast
		187-189	Gobo 39 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
31	23		<b>Animation wheel:</b>
		0-7	open
		8-127	Forwards rotation from fast to slow
		128-135	No rotation
		136-255	Backwards rotation from slow to fast
32	24		<b>Prism 1, 2:</b>
		0-63	Open
		64-127	Prism 1
		128-255	Prism 2
33	25		<b>Rotating prism index, rotating prism rotation 1, 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
34			<b>Rotating prism indexing Fine 1, 2:</b>
		0-255	Fine indexing
35	26		<b>Prism 3, 4:</b>
		0-63	Open
		64-127	Prism 3
		128-255	Prism 4
36	27		<b>Rotating prism index, rotating prism rotation 3, 4</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
37			<b>Rotating prism indexing Fine 3, 4:</b>
		0-255	Fine indexing
38	28		<b>Frost 1:</b>
		0-255	0-100%
39	29		<b>Frost 2:</b>
		0-255	0-100%



40	30		<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
		25-26	Auto fan control mode
		27-28	Stage fan control mode
		29-30	Silence fan control mode
		31-32	Super Silence fan control mode
		33-34	Constant Fans Off
		35-36	Constant Fans On
		37-44	unused
		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	unused
		95	Reset P/T Fade Off
		96	Reset P/T Fade On
		97-99	Other motor reset
		100-102	Frost Progressive Off
		103-105	Frost Progressive On
		106-108	CMY speed 1
		109-111	CMY speed 2
		112-255	unused