







## DMX CHANNEL'S FUNCTIONS AND THEIR VALUES (46/34/40/30 DMX CHANNELS) - V225

Mode/Channel		Function	Value	Default Value	
Std	Ex				
1	1	PAN Movement 8bit	0-255	128	
2	2	Pan Fine 16bit: Fine control of Pan movement	0-255	0	
3	3	TILT Movement 8bit	0-255	128	
4	4	Tilt Fine 16bit: Fine control of Tilt movement	0-255	0	
5	5	Speed Pan/Tilt Movement	Max to min speed	0-225	0
			Blackout by movement	226-235	
			Blackout by all wheel changing	236-245	
			No function	246-255	
6	6	Pan Motor Continuous Rotation	Stop rotation by spinout	0-63	0
			Stop rotation by shortcut	64-127	
			Forwards Pan rotation from fast to slow	128-189	
			No rotation	190-193	
7	7	Shutter, Strobe	Backwards Pan rotation from slow to fast	194-255	11
			Shutter closed	0-10	
			No fuction (Shutter open)	11-20	
			Strobe effect slow to fast	21-117	
			No function (Shutter open)	118-126	
			Pulse-effect in sequences	127-180	
			No function (Shutter open)	181-191	
Random strobe effect slow to fast	192-245				
8	8	Dimmer Intensity: 0 to 100%	0-255	0	
			Dimmer Intensity Fine	0-255	0
9	10	Reserved	0-255		
10	11	Reserved	0-255		
11	12	Reserved	0-255		
12	13	Zoom: From small to big	0-255	128	
14	14	Zoom Fine	0-255	0	
13	15	Focus: From near to far	0-255	128	
16	16	Focus Fine	0-255	0	
14	17	Auto Focus	Auto Focus Off	0-50	0
			5 m	51-100	
			7.5 m	101-150	
			10 m	151-200	
15	18	Auto Focus Fine	15 m	201-255	0
			Open	0	
			CTO (0-white, 255-100% CTO)	1-63	
			Colour 1: CTB 1/4	64	
16	19	Colour Wheel	Colour 2: Magenta	65	0

Mode/Channel		Function	Value	Default Value	
16	19	Colour Wheel	Colour 3: Congo Blue	66	0
			Colour 4: Green	67	
			Colour 5: Orange	68	
			Colour 6: Blue	69	
			Colour 7: Red	70	
			Colour 8: CTB 1/2	71	
			Colour 9: Minus Green 1/4	72	
			Colour 10: Minus Green 1/2	73	
			Colour 11: Pink	74	
			Colour 12: Violet	75	
			Colour 13: Amber	76	
			Colour indexing	77-127	
			17	20	
No rotation	190-193				
Backwards rainbow effect from slow to fast	194-255				
0-255	0				
17	21	Cyan Colour (0-white, 255-100% Cyan)	0-255	0	
18	22	Cyan Colour Fine	0-255	0	
18	23	Magenta (0-white, 255-100% magenta)	0-255	0	
19	24	Magenta Colour Fine	0-255	0	
19	25	Yellow Colour (0-white, 255-100% Yellow)	0-255	0	
19	26	Yellow Colour Fine	0-255	0	
20	27	Rotating Gobo Wheel	Open	0-9	0
			Rot. gobo 1: Star Dust	10-18	
			Rot. gobo 2: Iron Fillings	19-27	
			Rot. gobo 3: Nested Triangle	28-36	
			Rot. gobo 4: Vortex	37-45	
			Rot. gobo 5: Black & White Target	46-54	
			Rot. gobo 6: Smoke Rings	55-63	
			Rot. gobo 7: Dot Line 11	64-72	
			Rot. gobo 8: Nested Rings Yellow	73-81	
			Rot. gobo 9: CMY Liquid Effect	82-90	
			Gobo 1 shake slow to fast	91-101	
			Gobo 2 shake slow to fast	102-112	
			Gobo 3 shake slow to fast	113-123	
Gobo 4 shake slow to fast	124-134				
Gobo 5 shake slow to fast	135-145				
Gobo 6 shake slow to fast	146-156				
Gobo 7 shake slow to fast	157-167				
Gobo 8 shake slow to fast	168-178				
Gobo 9 shake slow to fast	178-189				

Mode/Channel	Function		Value	Default Value	
20	27	Rotating Gobo Wheel	Gobo wheel rotation forwards from fast to slow	190-221	0
			No rotation	222-223	
			Gobo wheel rotation f backwards from slow to fast	224-255	
21	28	Rotating Gobo Wheel Index, Rotation	Gobo indexing	0-127	0
			Forwards gobo rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards gobo rotation from slow to fast	194-255	
29	Rotating Gobo Wheel Index, Rotation Fine		0-255	0	
22	30	Static Gobo Wheel	Open	0-31	0
			Gobo 1: Conical Tunnel Effect	32	
			Gobo 2: Target Tunnel Effect	33	
			Gobo 3: Square Tunnel Effect	34	
			Gobo 4: Triangle Tunnel Effect	35	
			Gobo 5: Organic	36	
			Gobo 6: Water	37	
			Gobo 7: Nuclear	38	
			Gobo 8: Mirror Ball Light	39	
			Gobo 9: Fireworks Light	40	
			Gobo 10: Zig Zag	41	
			Gobo 11: Big Eye	42	
			Gobo 12: Ant	43	
			Gobo 13: Ayrton Logo	44	
			Gobo 14: Abstract Square	45	
			Gobo 15: Lost In The Brain	46	
			Gobo 16: Deep Forest	47	
			Gobo 17: Tree Bark	48	
			Gobo 18: Stained Glass	49	
			Gobo 19: Digital	50	
			Open	51	
			Gobo 20: Bold Line	52	
			Gobo 21: Square Line 5	53	
			Gobo 22: Four Lines	54	
			Gobo 23: Square Beam	55	
			Gobo 24: Rubik Cube	56	
			Gobo 25: Square Beam 4	57	
			Gobo 26: Square Beam 25	58	
			Gobo 27: Square Beam Mix	59	
			Gobo 28: Triangle Beam	60	
			Gobo 29: Star Beam	61	
			Gobo 30: Nested Rings Light	62	
			Gobo 31: Bubble Light	63	

Mode/Channel	Function		Value	Default Value	
22	30	Static Gobo Wheel	Gobo 32: Arrows	64	0
			Open	65	
			Gobo 33: Full Beam	66	
			Gobo 34: 80% Iris Beam	67	
			Gobo 35: 60% Iris Beam	68	
			Gobo 36: 40% Iris Beam	69	
			Gobo 37: 20% Iris Beam	70	
			Gobo 38: Dot Triangle 3	71	
			Gobo 39: Dot Mix	72	
			Gobo 1 shake slow to fast	73-75	
			Gobo 2 shake slow to fast	76-78	
			Gobo 3 shake slow to fast	79-81	
			Gobo 4 shake slow to fast	82-84	
			Gobo 5 shake slow to fast	85-87	
			Gobo 6 shake slow to fast	88-90	
			Gobo 7 shake slow to fast	91-93	
			Gobo 8 shake slow to fast	94-96	
			Gobo 9 shake slow to fast	97-99	
			Gobo 10 shake slow to fast	100-102	
			Gobo 11 shake slow to fast	103-105	
			Gobo 12 shake slow to fast	106-108	
			Gobo 13 shake slow to fast	109-111	
			Gobo 14 shake slow to fast	112-114	
			Gobo 15 shake slow to fast	115-117	
			Gobo 16 shake slow to fast	118-120	
			Gobo 17 shake slow to fast	121-123	
			Gobo 18 shake slow to fast	124-126	
			Gobo 19 shake slow to fast	127-129	
			Gobo 20 shake slow to fast	130-132	
			Gobo 21 shake slow to fast	133-135	
			Gobo 22 shake slow to fast	136-138	
			Gobo 23 shake slow to fast	139-141	
			Gobo 24 shake slow to fast	142-144	
Gobo 25 shake slow to fast	145-147				
Gobo 26 shake slow to fast	148-150				
Gobo 27 shake slow to fast	151-153				
Gobo 28 shake slow to fast	154-156				
Gobo 29 shake slow to fast	157-159				
Gobo 30 shake slow to fast	160-162				
Gobo 31 shake slow to fast	163-165				
Gobo 32 shake slow to fast	166-168				
Gobo 33 shake slow to fast	169-171				

Mode/Channel	Function	Value	Default Value		
22	30	Static Gobo Wheel	Gobo 34 shake slow to fast	172-174	0
			Gobo 35 shake slow to fast	175-177	
			Gobo 36 shake slow to fast	178-180	
			Gobo 37 shake slow to fast	181-183	
			Gobo 38 shake slow to fast	184-186	
			Gobo 39 shake slow to fast	187-189	
			Clock-wise scroll from fast to slow	190-221	
			Reserved	222-223	
			Counter clock-wise scroll from slow to fast	224-255	
23	31	Animation Wheel	Open 	0-7	0
			Forwards rotation from fast to slow	8-127	
			No rotation 	128-135	
			Backwards rotation from slow to fast	136-255	
24	32	Prism 1	Open	0-127	0
			Prism 1: 8-facet circular 	128-255	
25	33	Prism 1 Index, Rotation	Prism indexing	0-127	0
			Forwards prism rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards prism rotation from slow to fast	194-255	
34	Prism 1 Index, Rotation Fine	0-255	0		
26	35	Prism 2	Open	0-127	0
			Prism 2: 6-facet linear 	128-255	
27	36	Prism 2 Index, Rotation	Prism indexing	0-127	0
			Forwards prism rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards prism rotation from slow to fast	194-255	
37	Prism 2 Index, Rotation Fine	0-255	0		
28	38	Prism 3	Open	0-127	0
			Prism 3: 6-facet linear 	128-255	
29	39	Prism 3 Index, Rotation	Prism indexing	0-127	0
			Forwards prism rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards prism rotation from slow to fast	194-255	
40	Prism 3 Index, Rotation Fine	0-255	0		
30	41	Prism 4	Open	0-127	0
			Prism 4: 16-facet linear 	128-255	
31	42	Prism 4 Index, Rotation	Prism indexing	0-127	0
			Forwards prism rotation from fast to slow	128-189	

Mode/Channel	Function	Value	Default Value		
31	42	Prism 4 Index, Rotation	No rotation	190-193	0
			Backwards prism rotation from slow to fast	194-255	
43	Prism 4 Index, Rotation Fine	0-255	0		
32	44	Frost 1 Light 1°: 0-100%	0-255	0	
33	45	Frost 2 Heavy 5°: 0-100%	0-255	0	
34	46	Control, Reset, Internal Programs	unused	0-4	0
			Display Off	5-9	
			Display On	10-14	
			Display Invert Off	15-19	
			Display Invert On	20-24	
			Auto fan control mode	25-26	
			Stage fan control mode	27-28	
			Silence fan control mode	29-30	
			Super Silence fan control mode	31-32	
			Constant Fans Off	33-34	
			Constant Fans On	35-36	
			unused	37-44	
			Square Law	45-49	
			Linear	50-54	
			1.2 K	55-57	
			2.4 K	58-60	
			16 K	61-63	
			25K	64-69	
			Gobo correction Off	70-74	
			Gobo correction On	75-79	
			All motor reset	80-84	
			Scan motor reset	85-87	
			Colours motor reset	88-90	
			Gobo motor reset	91-93	
unused	94				
Reset P/T Fade Off	95				
Reset P/T Fade On	96				
Other motor reset	97-99				
Frost Progressive Off	100-102				
Frost Progressive On	103-105				
CMY Speed Fast	106-108				
CMY Speed Low	109-111				
unused	112-114				
Pan Degree 540°	115-117				
Pan Degree 630°	118-120				
Prerig INIT Off	121-123				

Mode/Channel		Function	Value	Default Value	
34	36	Control, Reset, Internal Programs	Prerig INIT On	124-126	0
			Pan/Tilt speed Fast	127-129	
			Pan/Tilt speed Med	130-132	
			Pan/Tilt speed Low	133-135	
			Pan/Tilt speed Fs Mode	136-138	
			Pan/Tilt speed Tracking 360	139-141	
			unused	142-255	









### MODE/CHANNEL (STD LOW & EX LOW)

Mode/Channel		Function	Value	Default Value	
Std Low	Ex Low				
1	1	PAN Movement 8bit	0-255	128	
2	2	Pan Fine 16bit: Fine control of Pan movement	0-255	0	
3	3	TILT Movement 8bit	0-255	128	
4	4	Tilt Fine 16bit: Fine control of Tilt movement	0-255	0	
5	5	Speed Pan/Tilt Movement	Max to min speed	0-225	0
			Blackout by movement	226-235	
			Blackout by all wheel changing	236-245	
			No function	246-255	
6	6	Pan Motor Continuous Rotation	Stop rotation by spinout	0-63	0
			Stop rotation by shortcut	64-127	
			Forwards Pan rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards Pan rotation from slow to fast	194-255	
7	7	Shutter, Strobe	Shutter closed	0-10	11
			No function (Shutter open)	11-20	
			Strobe effect slow to fast	21-117	
			No function (Shutter open)	118-126	
			Pulse-effect in sequences	127-180	
			No function (Shutter open)	181-191	
			Random strobe effect slow to fast	192-245	
			No function (Shutter open)	246-255	
8	8	Dimmer Intensity: 0 to 100%	0-255	0	
	9	Dimmer Intensity Fine	0-255	0	
9	10	Reserved	0-255		
10	11	Reserved	0-255		
11	12	Reserved	0-255		
	12	Zoom: From small to big	0-255	128	
	14	Zoom Fine	0-255	0	
13	15	Focus: From near to far	0-255	128	

Mode/Channel		Function	Value	Default Value	
	16	Focus Fine	0-255	0	
14	17	Auto Focus	Auto Focus Off	0-50	0
			5 m	51-100	
			7.5 m	101-150	
			10 m	151-200	
		15 m	201-255		
15	18	Auto Focus Fine		0	
16	19	Colour Wheel	Open	0	0
			CTO (1-White, 63-100% CTO)	1-63	
			Colour 1: CTB 1/4	64	
			Colour 2: Magenta	65	
			Colour 3: Congo Blue	66	
			Colour 4: Green	67	
			Colour 5: Orange	68	
			Colour 6: Blue	69	
			Colour 7: Red	70	
			Colour 8: CTB 1/2	71	
			Colour 9: Minus Green 1/4	72	
			Colour 10: Minus Green 1/2	73	
			Colour 11: Pink	74	
Colour 12: Violet	75				
Colour 13: Amber	76				
		Colour indexing	77-127		
		Forwards rainbow effect from fast to slow	128-189		
		No rotation	190-193		
		Backwards rainbow effect from slow to fast	194-255		
	20	Colour Wheel Fine	0-255	0	
17	21	Cyan Colour (0-white, 255-100% Cyan)	0-255	0	
	22	Cyan Colour Fine	0-255	0	
	18	Magenta (0-white, 255-100% magenta)	0-255	0	
	24	Magenta Colour Fine	0-255	0	
19	25	Yellow Colour (0-white, 255-100% Yellow)	0-255	0	
	26	Yellow Colour Fine	0-255	0	
20	27	Rotating Gobo Wheel	Open	0-9	0
			Rot. gobo 1: Star Dust	10-18	
			Rot. gobo 2: Iron Fillings	19-27	
			Rot. gobo 3: Nested Triangle	28-36	
			Rot. gobo 4: Vortex	37-45	
			Rot. gobo 5: Black & White Target	46-54	
			Rot. gobo 6: Smoke Rings	55-63	
			Rot. gobo 7: Dot Line 11	64-72	

Mode/Channel	Function	Value	Default Value	
20	27 Rotating Gobo Wheel	Rot. gobo 8: Nested Rings Yellow	73-81	0
		Rot. gobo 9: CMY Liquid Effect	82-90	
		Gobo 1 shake slow to fast	91-101	
		Gobo 2 shake slow to fast	102-112	
		Gobo 3 shake slow to fast	113-123	
		Gobo 4 shake slow to fast	124-134	
		Gobo 5 shake slow to fast	135-145	
		Gobo 6 shake slow to fast	146-156	
		Gobo 7 shake slow to fast	157-167	
		Gobo 8 shake slow to fast	168-178	
		Gobo 9 shake slow to fast	178-189	
		Gobo wheel rotation forwards from fast to slow	190-221	
		No rotation	222-223	
		Gobo wheel rotation f backwards from slow to fast	224-225	
21	28 Rotating Gobo Wheel Index, Rotation	Gobo indexing	0-127	0
		Forwards gobo rotation from fast to slow	128-189	
		No rotation	190-193	
		Backwards gobo rotation from slow to fast	194-255	
29	Rotating Gobo Wheel Index, Rotation Fine	0-255	0	
22	30 Static Gobo Wheel	Open	0-31	0
		Gobo 1: Conical Tunnel Effect	32	
		Gobo 2: Target Tunnel Effect	33	
		Gobo 3: Square Tunnel Effect	34	
		Gobo 4: Triangle Tunnel Effect	35	
		Gobo 5: Organic	36	
		Gobo 6: Water	37	
		Gobo 7: Nuclear	38	
		Gobo 8: Mirror Ball Light	39	
		Gobo 9: Fireworks Light	40	
		Gobo 10: Zig Zag	41	
		Gobo 11: Big Eye	42	
		Gobo 12: Ant	43	
		Gobo 13: Ayrton Logo	44	
		Gobo 14: Abstract Square	45	
		Gobo 15: Lost In The Brain	46	
		Gobo 16: Deep Forest	47	
		Gobo 17: Tree Bark	48	
		Gobo 18: Stained Glass	49	
		Gobo 19: Digital	50	
Open	51			
Gobo 20: Bold Line	52			

Mode/Channel	Function	Value	Default Value	
22	30 Static Gobo Wheel	Gobo 21: Square Line 5	53	0
		Gobo 22: Four Lines	54	
		Gobo 23: Square Beam	55	
		Gobo 24: Rubik Cube	56	
		Gobo 25: Square Beam 4	57	
		Gobo 26: Square Beam 25	58	
		Gobo 27: Square Beam Mix	59	
		Gobo 28: Triangle Beam	60	
		Gobo 29: Star Beam	61	
		Gobo 30: Nested Rings Light	62	
		Gobo 31: Bubble Light	63	
		Gobo 32: Arrows	64	
		Open	65	
		Gobo 33: Full Beam	66	
		Gobo 34: 80% Iris Beam	67	
		Gobo 35: 60% Iris Beam	68	
		Gobo 36: 40% Iris Beam	69	
		Gobo 37: 20% Iris Beam	70	
		Gobo 38: Dot Triangle 3	71	
		Gobo 39: Dot Mix	72	
		Gobo 1 shake slow to fast	73-75	
		Gobo 2 shake slow to fast	76-78	
		Gobo 3 shake slow to fast	79-81	
		Gobo 4 shake slow to fast	82-84	
		Gobo 5 shake slow to fast	85-87	
		Gobo 6 shake slow to fast	88-90	
		Gobo 7 shake slow to fast	91-93	
		Gobo 8 shake slow to fast	94-96	
		Gobo 9 shake slow to fast	97-99	
		Gobo 10 shake slow to fast	100-102	
		Gobo 11 shake slow to fast	103-105	
		Gobo 12 shake slow to fast	106-108	
		Gobo 13 shake slow to fast	109-111	
		Gobo 14 shake slow to fast	112-114	
		Gobo 15 shake slow to fast	115-117	
		Gobo 16 shake slow to fast	118-120	
		Gobo 17 shake slow to fast	121-123	
		Gobo 18 shake slow to fast	124-126	
		Gobo 19 shake slow to fast	127-129	
Gobo 20 shake slow to fast	130-132			
Gobo 21 shake slow to fast	133-135			
Gobo 22 shake slow to fast	136-138			

Mode/Channel		Function	Value	Default Value	
22	30	Static Gobo Wheel	Gobo 23 shake slow to fast	139-141	0
			Gobo 24 shake slow to fast	142-144	
			Gobo 25 shake slow to fast	145-147	
			Gobo 26 shake slow to fast	148-150	
			Gobo 27 shake slow to fast	151-153	
			Gobo 28 shake slow to fast	154-156	
			Gobo 29 shake slow to fast	157-159	
			Gobo 30 shake slow to fast	160-162	
			Gobo 31 shake slow to fast	163-165	
			Gobo 32 shake slow to fast	166-168	
			Gobo 33 shake slow to fast	169-171	
			Gobo 34 shake slow to fast	172-174	
			Gobo 35 shake slow to fast	175-177	
			Gobo 36 shake slow to fast	178-180	
			Gobo 37 shake slow to fast	181-183	
			Gobo 38 shake slow to fast	184-186	
			Gobo 39 shake slow to fast	187-189	
		Reserved	222-223		
		Counter clock-wise scroll from slow to fast	224-255		
23	31	Animation Wheel	Open	 0-7	0
			Forwards rotation from fast to slow	 8-127	
			No rotation	 128-135	
			Backwards rotation from slow to fast	 136-255	
24	32	Prism 1, 2	Open	0-63	0
			Prism 1: 8-facet circular	 64-127	
			Prism 2: 6-facet linear	 128-255	
25	33	Prism 1, 2 Index, Rotation	Prism indexing	0-127	0
			Forwards prism rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards prism rotation from slow to fast	194-255	
	34	Prism 1, 2 Index, Rotation Fine	0-255	0	
28	38	Prism 3, 4	Open	0-63	0
			Prism 3: 6-facet linear	 64-127	
			Prism 4: 16-facet linear	 128-255	
29	39	Prism 3, 4 Index, Rotation	Prism indexing	0-127	0
			Forwards prism rotation from fast to slow	128-189	
			No rotation	190-193	
			Backwards prism rotation from slow to fast	194-255	
	40	Prism 3, 4 Index, Rotation Fine	0-255	0	

Mode/Channel		Function	Value	Default Value	
32	44	Frost 1 Light 1: 0-100%	0-255	0	
33	45	Frost 2 Heavy 5: 0-100%	0-255	0	
34	46	Control, Reset, Internal Programs	unused	0-4	0
			Display Off	5-9	
			Display On	10-14	
			Display Invert Off	15-19	
			Display Invert On	20-24	
			Auto fan control mode	25-26	
			Stage fan control mode	27-28	
			Silence fan control mode	29-30	
			Super Silence fan control mode	31-32	
			Constant Fans Off	33-34	
			Constant Fans On	35-36	
			unused	37-44	
			Square Law	45-49	
			Linear	50-54	
			1.2 K	55-57	
			2.4 K	58-60	
			16 K	61-63	
			25K	64-69	
			Gobo correction Off	70-74	
			Gobo correction On	75-79	
			All motor reset	80-84	
			Scan motor reset	85-87	
			Colours motor reset	88-90	
			Gobo motor reset	91-93	
unused	94				
Reset P/T Fade Off	95				
Reset P/T Fade On	96				
Other motor reset	97-99				
Frost Progressive Off	100-102				
Frost Progressive On	103-105				
CMY Speed 1	106-108				
CMY Speed 2	109-111				
unused	112-114				
Pan Degree 540°	115-117				
Pan Degree 630°	118-120				
Prerig INIT Off	121-123				
Prerig INIT On	124-126				
Pan/Tilt speed Fast	127-129				
Pan/Tilt speed Med	130-132				
Pan/Tilt speed Low	133-135				

Mode/ Channel		Function	Value	Default Value	
34	36	Control, Reset, Internal Programs	Pan/Tilt speed Fs Mode	136-138	0
			Pan/Tilt speed Tracking 360	139-141	
			unused	142-255	

*Errors and omissions for all information given in this DMX chart are possible.  
All information is subject to change without prior notice.*



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