

DMX TRAITS: CHANNEL FUNCTIONS & VALUES

ELATION PROTEUS EXCALIBUR DMX Channel Values / Functions						
Supports Software Versions: ≥ 1.0						
Features subject to change without notice						
MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
STANDARD						
1			PAN Movement 8bit:			
		0-255	Pan Movement			
2			Pan Fine 16bit:			
		0-255	Fine control of Pan movement			
3			TILT Movement 8bit:			
		0-255	Tilt Movement			
4			Tilt Fine 16bit:			
		0-255	Fine control of Tilt movement			
5			Cyan:			
		0-255	Cyan (0-100% Cyan)			
6			Magenta:			
		0-255	Magenta (0-100% Magenta)			
7			Yellow:			
		0-255	Yellow (0-100% Yellow)			
8			Color Wheel:			
		0-10	Open			
		11-17	Red			
		18-25	Green			
		26-32	Yellow			
		33-39	Purple			
		40-46	Light Green			
		47-53	Orange			
		54-60	Magenta			
		61-67	Cyan			
		68-74	Open			
		75-81	Deep Red			
		82-88	Dark Amber			
		89-95	Pink			
		96-102	UV			
		103-109	CTB			
		110-116	CTO			
		117-127	Medium Blue			
			Color Scroll			
		128-180	Clockwise, fast \rightarrow slow			
		181	Idle			
		182-234	Counter-clockwise, slow \rightarrow fast			
			Random Slots			
		235-239	Fast			
		240-244	Medium			
245-249	Slow					
250-255	Open					

Features subject to change without notice

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
STANDARD						
9			Rotating Gobo			
		0-10	Beam open			
		11-21	Spot open			
		22-31	Rot. gobo 1			
		32-41	Rot. gobo 2			
		42-51	Rot. gobo 3			
		52-61	Rot. gobo 4			
		62-71	Rot. gobo 5			
		72-81	Rot. gobo 6			
		82-91	Rot. gobo 7			
		92-101	Rot. gobo 8			
		102-112	Rot. gobo 1 shake			
		113-123	Rot. gobo 2 shake			
		124-134	Rot. gobo 3 shake			
		135-145	Rot. gobo 4 shake			
		146-156	Rot. gobo 5 shake			
		157-167	Rot. gobo 6 shake			
		168-178	Rot. gobo 7 shake			
		179-189	Rot. gobo 8 shake			
		190-221	Scroll CW fast to slow			
	222-223	Idle				
	224-255	Scroll CCW slow to fast				
10			Rotating Gobo Index, Rotation			
		0-127	Gobo indexing			
		128-189	Clockwise gobo scroll from fast to slow			
		190-193	No rotation			
	194-255	Counter-clockwise gobo scroll from slow to fast				
11			Rotating gobo fine indexing:			
		0-255	Fine indexing			

Features subject to change without notice

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
STANDARD						
12			Fixed gobos1			
		0-4	Open			
		5-9	Gobo 1			
		10-14	Gobo 2			
		15-19	Gobo 3			
		20-24	Gobo 4			
		25-29	Gobo 5			
		30-34	Gobo 6			
		35-39	Gobo 7			
		40-44	Gobo 8			
		45-49	Gobo 9			
		50-54	Gobo 10			
		55-59	Gobo 11			
		60-64	Gobo 12			
		65-69	Gobo 13			
		70-74	Gobo 14			
		75-79	Gobo 15			
		80-84	Gobo 16			
		85-87	Gobo 17			
		88-93	Gobo 1 shake slow to fast			
		94-99	Gobo 2 shake slow to fast			
		100-105	Gobo 3 shake slow to fast			
		106-111	Gobo 4 shake slow to fast			
		112-117	Gobo 5 shake slow to fast			
		118-123	Gobo 6 shake slow to fast			
		124-129	Gobo 7 shake slow to fast			
		130-135	Gobo 8 shake slow to fast			
		136-141	Gobo 9 shake slow to fast			
		142-147	Gobo 10 shake slow to fast			
		148-153	Gobo 11 shake slow to fast			
		154-159	Gobo 12 shake slow to fast			
		160-165	Gobo 13 shake slow to fast			
	166-171	Gobo 14 shake slow to fast				
	172-177	Gobo 15 shake slow to fast				
	178-183	Gobo 16 shake slow to fast				
	184-189	Gobo 17 shake slow to fast				
	190-221	Scroll CW fast to slow				
	222-223	Idle				
	224-255	Scroll CCW slow to fast				

Features subject to change without notice						
MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
STANDARD						
13			Prism:			
		0-50	Open			
		51-100	Beam Expander			
		101-150	8 Facet			
		151-200	4 Facet Linear			
		201-255	8 Facet + 4 Facet			
14			Prism 1 Rotation:			
		0-127	Prism indexing			
		128-189	Clockwise prism rotation from fast to slow			
		190-193	No rotation			
		194-255	Counter-clockwise prism rotation from slow to fast			
15			Prism 1 Rotation Fine:			
		0-255	Fine indexing			
16			Prism 2 Rotation			
		0-127	Prism Indexing			
		128-189	Prism 8x			
		190-193	Prism 4 Linear			
		194-255	Reserved			
17			Prism 1 Rotation Fine:			
		0-255	Fine Indexing			
18			Focus:			
19			Focus Fine:			
20			Rotating prism 2 index,rotating gobo rotation:			
		0-31	Shutter closed			
		32-63	No function (shutter open)			
		64-95	Strobe effect slow to fast			
		96-127	No function (shutter open)			
		128-159	Pulse-effect in sequences			
		160-191	No function (shutter open)			
		192-223	Random strobe effect slow to fast			
		224-255	No function (shutter open)			
21			Dimmer:			
		0-255	Intensity 0 to 100%			
22			Dimmer Fine:			
		0-255	Intensity Fine			
23			Frost1			
			0% - 100% Frost			
24			Frost 2			
			0% - 100 Frost			
25			Frost 2			
		0-225	Max to min speed			
		226-235				
		236-255				

Features subject to change without notice

MODE/CHANNEL		VALUE	FUNCTION	HOLD TIME	DEFAULT	SNAP
STANDARD	EXTENDED					
26			Control:			
		0-19	Colour change normal			
		20-39	Idle			
		40-49	Lamp on			
		50-59	Lamp off			
		60-66	Lamp power 370W			
		67-73	Lamp power 430W			
		74-79	Lamp power 560W			
		80-84	All motor reset			
		85-87	Pan Tilt motor reset			
		88-90	Color motor reset			
		91-93	Gobo motor reset			
		94-96	Shutter & Dimmer motor reset			
		97-99	Other motor reset			
		100-168	Idle			
		169-170	Vent Cleaning On			
		171-172	Vent Cleaning Off			
		173-174	Hibernation Off			
		175-176	Hibernation			
		177-178	Home Position Before Power Off			
		179-180	Home Position Off			
		181-190	Pan Tilt Smooth (default)			
		191-200	Pan Tilt Fast			
		201-210	Dimmer Curve Linear (default)			
		211-220	Dimmer Curve Square			
		221-230	Dimmer Curve Inverse Square			
		231-240	Dimmer Curve S-Curve			
		241	Internal program 1			
		242	Internal program 2			
		243	Internal program 3			
		244	Internal program 4			
		245	Internal program 5			
		246	Internal program 6			
	247	Internal program 7				
	248-249	Idle				
	250-251	Display off				
	252-253	Display on				
	254-255	Idle				