

		Studio Spot 250 DMX Chart			
DMX	Function	Description	Decimal	Perc	Hex
1	Pan	Pan Coarse	0 - 255	0-100	0-FF
2	Pan	Pan Fine	0 - 255	0-100	0-FF
3	Tilt	Tilt Coarse	0 - 255	0-100	0-FF
4	Tilt	Tilt Fine	0 - 255	0-100	0-FF
5	Color Function	Full Speed			
		Indexed	0 - 15	0-6	0-0F
		Forward Spin	16-31	6-12	10-1F
		Reverse Spin	32-47	13-18	20-2F
		Continuous	48-63	19-25	30-3F
		Slow Scan	64-79	25-31	40-4F
		Fast Scan	80-95	31-37	50-5F
		Random	96-111	38-44	60-6F
		Blink-Indexed	112-127	44-50	70-7F
		MSpeed Control			
		Indexed	128-143	50-56	80-8F
		Forward Spin	144-159	57-62	90-9F
		Reverse Spin	160-175	63-69	A0-AF
		Continuous	176-191	69-75	B0-BF
		Slow Scan	192-207	75-81	C0-CF
		Fast Scan	208-223	82-88	D0-DF
		Random	224-239	88-94	E0-EF
		Blink-Indexed	240-255	94-100	F0-FF
6	Color Wheel Position	Indexed Mode			
		Color 1	0-23	0-9	0-17
		Color 2	24-31	9-12	18-1F
		Color 3	32-39	13-15	20-27
		Color 4	40-47	16-18	28-2F
		Color 5	48-55	19-22	30-37
		Color 6	56-63	22-25	38-3F
		Color 7	64-71	25-28	40-47
		Color 8	72-79	28-31	48-4F
		Color 9	80-87	31-34	50-57
		Color 10	88-95	35-37	58-5F
		Color 11	96-103	38-40	60-67
		Color 12	104-111	41-44	68-6F
		Color 13	112-127	44-50	70-7F

Color 1/2	128-143	50-56	80-8F
Color 2/3	144-151	57-59	90-97
Color 3/4	152-159	60-62	98-9F
Color 4/5	160-167	63-66	A0-A7
Color 5/6	168-175	66-69	A8-AF
Color 6/7	176-183	69-72	B0-B7
Color 7/8	184-191	72-75	B8-BF
Color 8/9	192-199	75-78	C0-C7
Color 9/10	200-207	78-81	C8-CF
Color 10/11	208-215	82-84	D0-D7
Color 11/12	216-223	85-88	D8-DF
Color 12/13	224-231	88-91	E0-E7
Color 13/1	232-247	91-97	E8-F7
Color 1	248-255	97-100	F8-FF
Continuously Variable Mode			
Color 1	0	0	0
Color 2	19	8	13
Color 3	39	15	27
Color 4	58	23	3A
Color 5	78	31	4E
Color 6	98	38	62
Color 7	117	46	75
Color 8	137	54	89
Color 9	156	61	9C
Color 10	176	69	B0
Color 11	196	77	C4
Color 12	215	84	D7
Color 13	235	92	EB
Color 1	255	100	FF
Continuously Variable Forward Spin Mode			
Spin Stop	0-3	0-1	0-3
Spin Forward Slowest	4	2	4
Spin Forward Fastest	255	100	FF
Continuously Variable Reverse Spin Mode			
Spin Stop	0-3	0-1	0-3
Spin Reverse Slowest	4	2	4
Spin Reverse Fastest	255	100	FF

		Random Mode			
		Random Stop	0-3	0-1	0-3
		Random Slowest	4	2	4
		Random Fastest	255	100	FF
7	Litho Wheel 1 Function	Full Speed			
		Indexed	0-15	0-5	0-0F
		Forward rotate	16-31	6-12	10-1F
		Reverse rotate	32-47	13-18	20-2F
		Wheel spin	48-63	19-24	30-3F
		Fast scan-indexed	64-79	25-30	40-4F
		Random	80-95	31-37	50-6F
		Blink wheel	96-111	38-42	60-6F
		Blink aperture	112-127	43-49	70-7F
		MSpeed Controlled			
		Indexed	128-143	50-55	80-8F
		Forward rotate	144-159	56-62	90-9F
		Reverse rotate	160-175	63-68	A0-AF
		Wheel spin	176-191	69-74	B0-BF
		Fast Scan-indexed	192-207	75-80	C0-CF
		Random	208-223	81-87	D0-DF
		Blink wheel	224-239	88-93	E0-EF
		Blink aperture	240-255	94-100	F0-FF
8	Litho Wheel 1 Position	Indexed Positions			
		Position 0	0-15	0-6	0-0F
		Position 1	16-47	6-18	10-2F
		Position 2	48-79	19-31	30-4F
		Position 3	80-111	31-44	50-6F
		Position 4	112-143	44-56	70-8F
		Position 5	144-175	57-69	90-AF
		Position 6	176-207	69-81	B0-CF
		Position 7	208-239	82-94	D0-EF
		Position 0	240-255	94-100	F0-FF
9	Litho Wheel 1 Rotation	Indexed mode			
		Indexable Positions	0-255	0-100	0-FF
		Variable forward spin mode			
		Spin stop	0-3	0-1	0-3

		Spin forward slowest	4	2	4
		Spin forward fastest	225	100	FF
		Variable reverse spin mode			
		Spin stop	0-3	0-1	0-3
		Spin reverse slowest	4	2	4
		Spin reverse fastest	225	100	FF
		Continuously variable spin mode			
		Fastest forward spin	0	0	0
		Slowest forward spin	127	49	7F
		Slowest reverse spin	128	50	80
		Fastest reverse spin	255	100	FF
		Scan mode			
		Scan slowest	0	0	0
		Scan fastest	255	100	FF
		Random Mode			
		Spin stop	0-3	0-1	0-3
		Random slowest	4	2	4
		Random fastest	255	100	FF
10	Effects Wheel	Full Speed			
		Position 0	0-25	0-10	0-19
		Position 1	26-51	10-20	1A-33
		Position 2	52-76	20-30	34-4C
		Position 3	77-102	30-40	4D-66
		Position 4	103-127	40-50	67-7F
		MSpeed Controlled			
		Position 0	128-153	50-60	80-99
		Position 1	154-178	60-70	9A-B2
		Position 2	179-204	70-80	B3-CC
		Position 3	205-229	80-90	CD-E5
		Position 4	230-255	90-100	E6-FF
11	Effects Rotate	Variable Ranges			
		Fastest Reverse Rotate	0	0	0

		Slowest Reverse Rotate	120	47	78
		Rotate Stop	121-134	48-53	79-86
		Slowest Forward Rotate	135	53	87
		Fastest Forward Rotate	255	100	FF
12	Focus	Variable Focus			
		Focus image closer	0	0	0
		Focus image farther	255	100	FF
13	Iris	Variable Iris			
		Close	0	0	0
		Variable Iris	1-127	1-50	01-7F
		Open	128-135	50-53	80-87
		Iris Effects (Variable Ranges)			
		Periodic Strobe	136-151	53-59	88-97
		Random Strobe	152-167	60-66	98-A7
		Ramp Open/Snap Shut	168-183	66-72	A8-B7
		Snap Open/Ramp Shut	184-199	72-78	B8-C7
		Ramp Open/Ramp Shut	200-215	78-84	C8-D7
		Random Ramp/Snap	216-231	85-91	D8-E7
		Random Snap/Ramp	232-247	91-97	E8-F7
		Open	248-255	97-100	F8-FF
14	Shutter	Normal			
		Close	0-23	0-9	0-17
		Open	232-255	91-100	E8-FF
		Strobe Effects (Variable Ranges)			
		Periodic Strobe	24-49	9-19	18-31
		Random/Rand Strobe	50-75	20-29	32-4B
		Random/Sync	76-101	30-40	4C-65
		Ramp Open/Snap Shut	102-127	40-50	66-7F
		Snap Open/Ramp Shut	128-153	50-60	80-99

		Ramp Open/Ramp Shut	154-179	60-70	9A-B3
		Random Ramp/Snap	180-205	71-80	B4-CD
		Random Snap/Ramp	206-231	81-91	CE-E7
15	Dimmer	Variable Range			
		Closed	0	0	0
		Open	255	100	FF
16	MSpeed	Ranges			
		Controller crossfade	0-3	0-1	0-3
		Longest (252.7 sec.)	4	2	4
		Shortest (0.15 sec.)	255	100	FF
17	Macros / LAD	Selections			
		No Macro / LAD off	0-7	0-3	0-07
		Macro 1	8-11	3-4	08-0B
		Macro 2	12-15	5-6	0C-0F
		Macro 3	16-19	6-8	10-13
		Macro 4	20-23	8-9	14-17
		Macro 5	24-27	9-11	18-1B
		Macro 6	28-31	11-12	1C-1F
		Macro 7	32-35	13-14	20-23
		Macro 8	36-39	14-15	24-27
		Macro 9	40-43	16-17	28-2B
		Macro 10	44-47	17-18	2C-2F
		Macro 11	48-51	19-20	30-33
		Macro 12	52-55	20-22	34-37
		Macro 13	56-59	22-23	38-3B
		Macro 14	60-63	24-25	3C-3F
		Macro 15	64-67	25-26	40-43
		Macro 16	68-71	27-28	44-47
		Macro 17	72-75	28-29	48-4B
		Macro 18	76-79	30-31	4C-4F
		Macro 19	80-83	31-33	50-53
		Macro 20	84-87	33-34	54-57
		Macro 21	88-91	35-36	58-5B
		Macro 22	92-95	36-37	5C-5F

		Macro 23	96-99	38-39	60-63
		Macro 24	100-103	39-40	64-67
		Macro 25	104-107	41-42	68-6B
		Macro 26	108-111	42-44	6C-6F
		Macro 27	112-115	44-45	70-73
		Macro 28	116-119	46-47	74-77
		Macro 29	120-123	47-48	78-7B
		Macro 30	124-127	49-50	7C-7F
		Macro 31	128-131	50-51	80-83
		Macro 32	132-135	52-53	84-87
		Random Macros (Variable)	136-167	53-66	88-A7
		LAD Off / No Macros	168-199	66-78	A8-C7
		LAD Modulate (Variable)	200-231	78-91	C8-E7
		LAD On	232-255	91-100	E8-FF
18	Control	Selections			
	After choosing a control channel value, set the Shutter channel to "O" to access the Control channel settings	Safe (normal operation)	0-9	0-3	0-9
		Disable MSpeed for P/T	10-19	4-7	0A-13
		Display off	20-28	8-11	14-1C
		Display dim	30-38	12-14	1E-26
		Display bright	40-48	15-18	28-30
		Home	60-68	23-26	3C-44
		Lamp on	80-88	31-34	50-58
		Lamp off	90-98	35-38	5A-62
		Shutdown	120-130	46-50	78-82
	Send "Shutdown" value for approximately two seconds	Reserved	131-255	51-100	83-FF