

DMX Protocol

Studio Spot®575CMY

Chan#	Parameter	Description	Value (dec.)	Value (%)	Value (hex)
1	Pan (high)	Pan coarse adjustment (8-bit)	0 - 255	0 - 100	00 - FF
2	Pan (low)	Pan fine adjustment (8-bit)	0 - 255	0 - 100	00 - FF
3	Tilt (high)	Tilt coarse adjustment (8-bit)	0 - 255	0 - 100	00 - FF
4	Tilt (low)	Tilt fine adjustment (8-bit)	0 - 255	0 - 100	00 - FF
5	CMY Color Function	Full Speed			
		Continuous	0-31	0-12	00-1F
		Reserved	32-127	13-49	2D-7F
		MSpeed			
		Continuous	128-159	50-62	80-9F
		Reserved	160-255	63-100	A0-FF
6	Cyan	Full Cyan	0	0	00
		Open "white" position	255	100	FF
7	Magenta	Full Magenta	0	0	00
		Open "white" position	255	100	FF
8	Yellow	Full Yellow	0	0	00
		Open "white" position	255	100	FF
9	Litho Wheel 1 Function	Full Speed			
		Indexed	0-15	0-5	00-0F
		Forward rotate	16-31	6-12	10-1F
		Reverse rotate	32-47	13-18	20-2F
		Wheel spin	48-63	19-24	30-3F
		Scan	64-79	25-30	40-4F
		Random	80-95	31-37	50-6F
		Blink wheel (indexed)	96-111	38-42	60-6F
		Blink aperture (indexed)	112-127	43-49	70-7F
		MSpeed			
		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
		Scan	192-207	75-80	C0-CF
		Random	208-223	81-87	D0-DF
Blink wheel (indexed)	224-239	88-93	E0-EF		
Blink aperture (indexed)	240-255	94-100	F0-FF		
10	Litho Wheel 1 Position	Position 0	0-36	0-14	00-24
		Position 1	37-73	15-28	25-49
		Position 2	74-109	29-42	4A-6D
		Position 3	110-146	43-57	6E-92
		Position 4	147-182	58-71	93-B6
		Position 5	183-219	72-85	B7-D8
		Position 0	220-255	86-100	D9-FF

Chan#	Parameter	Description	Value (dec.)	Value (%)	Value (hex)
11	Litho Wheel 1 Rotation High Byte	Indexed Mode	0-255	0-100	00-FF
		Variable Forward Rotate Mode			
		Rotate stop	0-3	0-1	00-03
		Rotate forward slowest	4	2	04
		Rotate forward fastest	225	100	FF
		Variable Reverse Rotate Mode			
		Rotate stop	0-3	0-1	00-03
		Rotate reverse slowest	4	2	04
		Rotate reverse fastest	225	100	FF
		Continuously Variable Wheel Spin Mode			
		Fastest forward spin	0	0	00
		Slowest forward spin	127	49	7F
		Slowest reverse spin	128	50	80
		Fastest reverse spin	255	100	FF
		Scan Mode			
		Scan slowest	0	0	00
		Scan fastest	255	100	FF
		Random Mode			
		Random stop	0-3	0-1	00-03
		Random slowest	4	2	04
Random fastest	255	100	FF		
12	Litho Wheel 1 Rotation Low Byte	Indexed Mode	0-255	0-100	00-FF
13	Litho Wheel 2 Function	Full Speed			
		Indexed	0-15	0-5	00-0F
		Forward rotate	16-31	6-12	10-1F
		Reverse rotate	32-47	13-18	20-2F
		Wheel spin	48-63	19-24	30-3F
		Scan	64-79	25-30	40-4F
		Random	80-95	31-37	50-6F
		Blink wheel (indexed)	96-111	38-42	60-6F
		Blink aperture (indexed)	112-127	43-49	70-7F
		MSpeed			
		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
		Scan	192-207	75-80	C0-CF
		Random	208-223	81-87	D0-DF
		Blink wheel (indexed)	224-239	88-93	E0-EF
Blink aperture (indexed)	240-255	94-100	F0-FF		
14	Litho Wheel 2 Position	Position 0	0-36	0-14	00-24
		Position 1	37-73	15-28	25-49
		Position 2	74-109	29-42	4A-6D
		Position 3	110-146	43-57	6E-92
		Position 4	147-182	58-71	93-B6
		Position 5	183-219	72-85	B7-D8
		Position 0	220-255	86-100	D9-FF

Chan#	Parameter	Description	Value (dec.)	Value (%)	Value (hex)	
15	Litho Wheel 2 Rotation High Byte	Indexed Mode	0-255	0-100	00-FF	
		Variable Forward Rotate Mode				
		Rotate stop	0-3	0-1	00-03	
		Rotate forward slowest	4	2	04	
		Rotate forward fastest	225	100	FF	
		Variable Reverse Rotate Mode				
		Rotate stop	0-3	0-1	00-03	
		Rotate reverse slowest	4	2	04	
		Rotate reverse fastest	225	100	FF	
		Continuously Variable Wheel Spin Mode				
		Fastest forward spin	0	0	00	
		Slowest forward spin	127	49	7F	
		Slowest reverse spin	128	50	80	
		Fastest reverse spin	255	100	FF	
		Scan Mode				
		Scan slowest	0	0	00	
		Scan fastest	255	100	FF	
Random Mode						
Random stop	0-3	0-1	00-03			
Random slowest	4	2	04			
Random fastest	255	100	FF			
16	Litho Wheel 2 Rotation Low Byte	Indexed Mode	0-255	0-100	00-FF	
17	Frost	No frost	0	0	00	
		Variable frost	1-127	1-49	01-7F	
		Full frost	128-143	50-55	80-8F	
		Periodic frost strobes	144-159	56-62	90-9F	
		Random frost strobes	160-175	63-68	A0-AF	
		Ramp open/ snap shut	176-191	69-74	B0-BF	
		Snap open/ ramp shut	192-207	75-80	C0-CF	
		Random ramp/ snap	208-223	81-87	D0-DF	
		Random snap/ ramp	224-239	88-93	E0-EF	
		Open	240-255	94-100	FO-FF	
18	Focus	Focus image closer	0	0	00	
		Focus image farther	256	100	FF	
19	Iris	Closed	0	0	00	
		Variable	1-127	1-49	01-7F	
		Open	128-143	50-55	80-8F	
		Periodic strobe	144-159	56-62	90-9F	
		Random strobe	160-175	63-68	A0-AF	
		Ramp open/ snap shut	176-191	69-74	B0-BE	
		Snap open/ ramp shut	192-207	75-80	BF-CF	
		Random ramp/ snap	208-223	81-87	DD-DC	
		Random snap/ ramp	224-239	88-93	E0-EF	
Open	240-255	94-100	F0-FF			

Chan#	Parameter	Description	Value (dec.)	Value (%)	Value (hex)
20	Shutter	Closed	0-31	0-12	00-1F
		Periodic strobes	32-63	13-24	20-3F
		Random strobes	64-95	25-37	40-5F
		Ramp open/ snap shut	96-127	38-49	60-7F
		Snap open/ ramp shut	128-159	50-62	80-9F
		Random ramp open/ snap shut	160-191	63-74	A0-BF
		Random snap open/ ramp shut	192-223	75-87	C0-DF
		Open	224-255	88-100	E0-FF
21	Dim	Closed	0	0	00
		Open	255	100	FF
22	MSpeed	Disabled (controller crossfade)	0-3	0-1	00-03
		longest (252.7 sec.)	4	2	04
		shortest (0.15 sec.)	255	100	FF
23	Factory Macros	No macro	0-7	0-2	00-07
		Macro 1	8-15	3-5	08-0F
		Macro 2	16-23	6-9	10-17
		Macro 3	24-31	10-12	18-1F
		Macro 4	32-39	13-15	20-27
		Macro 5	40-47	16-18	28-2F
		Macro 6	48-55	19-21	30-37
		Macro 7	56-63	22-24	38-3F
		Macro 8	64-71	25-27	40-47
		Reserved	72-215	28-84	48-D4
		Variable speed random macros	216-247	85-96	D5-F7
		No macro	248-255	97-100	F8-FF
24	Control <i>(Note: The Shutter channel must be closed to access the Control channel settings.)</i>	Safe	0-9	0-3	00-09
		Disable MSpeed for pan and tilt	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
		TBD	131-255	51-100	83-FF