

ETC Reference Guide

High End Systems Ministar DMX Channel Map

Ministar DMX Channel Map

Standard Protocol	
Channel	Function
1	Pan Coarse
2	Pan Fine
3	Tilt Coarse
4	Tilt Fine
5	Color Macro
6	Color Wheel 1 Mode
7	Color Wheel 1
8	Color Wheel 2 Mode
9	Color Wheel 2
10	Rotating Gobo Wheel 1 Mode
11	Rotating Gobo Wheel 1
12	Gobo 1 Rotate Mode
13	Gobo 1 Rotate Coarse
14	Gobo 1 Rotate Fine
15	Fixed Gobo Wheel 2 Mode
16	Fixed Gobo Wheel 2
17	Prism 1 Mode
18	Prism 1 Rotate Coarse
19	Prism 1 Rotate Fine
20	Diffusion 1
21	Focus Coarse
22	Focus Fine
23	Zoom Coarse
24	Zoom Fine
25	Strobe Mode
26	Strobe
27	Dimmer Coarse
28	Dimmer Fine
29	mSpeed
30	Control
31	Fan



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Standard Protocol

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1/2	Pan (Coarse/Fine)	See note 8 on page 11	0	65535	0%	100%	00h	FFFFh	32767
3/4	Tilt (Coarse/Fine)	See note 8 on page 11	0	65535	0%	100%	00h	FFFFh	32767
5	Color Macros (see note 6 on page 10)	Idle	0	1	0%	0%	00h	01h	0
		Geranium	2	3	1%	1%	02h	03h	
		PrimaryRed	4	5	2%	2%	04h	05h	
		MediumRose	6	7	2%	3%	06h	07h	
		LightRose	8	9	3%	4%	08h	09h	
		Apricot	10	11	4%	4%	0Ah	0Bh	
		Orange	12	13	5%	5%	0Ch	0Dh	
		PaleYellow	14	15	5%	6%	0Eh	0Fh	
		Straw	16	17	6%	7%	10h	11h	
		Lemon	18	19	7%	7%	12h	13h	
		Sunflower	20	21	8%	8%	14h	15h	
		Yellow	22	23	9%	9%	16h	17h	
		LightYellow	24	25	9%	10%	18h	19h	
		PeaGreen	26	27	10%	11%	1Ah	1Bh	
		NotEasyGreen	28	29	11%	11%	1Ch	1Dh	
		VibrantGreen	30	31	12%	12%	1Eh	1Fh	
		GrassGreen	32	33	13%	13%	20h	21h	
		PrimaryGreen	34	35	13%	14%	22h	23h	
		DeepGreen	36	37	14%	15%	24h	25h	
		BrightGreen	38	39	15%	15%	26h	27h	
		Emerald	40	41	16%	16%	28h	29h	
		Seafoam	42	43	16%	17%	2Ah	2Bh	
		Wintergreen	44	45	17%	18%	2Ch	2Dh	
		Honeydew	46	47	18%	18%	2Eh	2Fh	
		Aqua	48	49	19%	19%	30h	31h	
		Cerulean	50	51	20%	20%	32h	33h	
		DaylightBlue	52	53	20%	21%	34h	35h	
		SkyBlue	54	55	21%	22%	36h	37h	
		IcebergBlue	56	57	22%	22%	38h	39h	
		ArcticBlue	58	59	23%	23%	3Ah	3Bh	
		DeepSkyBlue	60	61	24%	24%	3Ch	3Dh	
OceanBlue	62	63	24%	25%	3Eh	3Fh			
Cyan	64	65	25%	25%	40h	41h			
PrimaryBlue	66	67	26%	26%	42h	43h			
RoyalBlue	68	69	27%	27%	44h	45h			
Larkspur	70	71	27%	28%	46h	47h			
PowerBlue	72	73	28%	29%	48h	49h			
Indigo	74	75	29%	29%	4Ah	4Bh			
DeepPurple	76	77	30%	30%	4Ch	4Dh			
DuskyPurple	78	79	31%	31%	4Eh	4Fh			

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
5	Color Macros (continued) (see note 6 on page 10)	Lavender	80	81	31%	32%	50h	51h	0
		Pur-ink	82	83	32%	33%	52h	53h	
		Azalea	84	85	33%	33%	54h	55h	
		Carnation	86	87	34%	34%	56h	57h	
		Hydrangea	88	89	35%	35%	58h	59h	
		FancyPink	90	91	35%	36%	5Ah	5Bh	
		NeonPink	92	93	36%	36%	5Ch	5Dh	
		Orchid	94	95	37%	37%	5Eh	5Fh	
		DeepLavender	96	97	38%	38%	60h	61h	
		Magenta	98	99	38%	39%	62h	63h	
		HotMagenta	100	101	39%	40%	64h	65h	
		Fuchsia	102	103	40%	40%	66h	67h	
		Pink	104	105	41%	41%	68h	69h	
		SoftWhite	106	107	42%	42%	6Ah	6Bh	
		WarmWhite	108	109	42%	43%	6Ch	6Dh	
		LightPink	110	111	43%	44%	6Eh	6Fh	
		GreenTint	112	113	44%	44%	70h	71h	
		NeutralWhite	114	115	45%	45%	72h	73h	
		MercuryArc	116	117	45%	46%	74h	75h	
		Smoke	118	119	46%	47%	76h	77h	
		FullCTB	120	121	47%	47%	78h	79h	
		Open	122	123	48%	48%	7Ah	7Bh	
		Quad - 1	124	125	49%	49%	7Ch	7Dh	
		Quad - 2	126	127	49%	50%	7Eh	7Fh	
		Quad - 3	128	129	50%	51%	80h	81h	
		Quad - 4	130	131	51%	51%	82h	83h	
		Quad - 5	132	133	52%	52%	84h	85h	
		Quad - 6	134	135	53%	53%	86h	87h	
		Quad - 7	136	137	53%	54%	88h	89h	
		Quad - 8	138	139	54%	55%	8Ah	8Bh	
		Quad - 9	140	141	55%	55%	8Ch	8Dh	
		Quad - 10	142	143	56%	56%	8Eh	8Fh	
		Quad - 11	144	145	56%	57%	90h	91h	
		Quad - 12	146	147	57%	58%	92h	93h	
		Quad - 13	148	149	58%	58%	94h	95h	
		Quad - 14	150	151	59%	59%	96h	97h	
		Quad - 15	152	153	60%	60%	98h	99h	
		Quad - 16	154	155	60%	61%	9Ah	9Bh	
		Quad - 17	156	157	61%	62%	9Ch	9Dh	
		Quad - 18	158	159	62%	62%	9Eh	9Fh	
		Quad - 19	160	161	63%	63%	A0h	A1h	
		Quad - 20	162	163	64%	64%	A2h	A3h	
		Quad - 21	164	165	64%	65%	A4h	A5h	
Quad - 22	166	167	65%	65%	A6h	A7h			
Quad - 23	168	169	66%	66%	A8h	A9h			

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
5	Color Macros (continued) (see note 6 on page 10)	Quad - 24	170	171	67%	67%	AAh	ABh	0
		Quad - 25	172	173	67%	68%	ACh	ADh	
		Quad - 26	174	175	68%	69%	A Eh	AFh	
		Quad - 27	176	177	69%	69%	B0h	B1h	
		Quad - 28	178	179	70%	70%	B2h	B3h	
		Quad - 29	180	181	71%	71%	B4h	B5h	
		Quad - 30	182	183	71%	72%	B6h	B7h	
		Quad - 31	184	185	72%	73%	B8h	B9h	
		Quad - 32	186	187	73%	73%	BAh	BBh	
		Quad - 33	188	189	74%	74%	BCh	BDh	
		Quad - 34	190	191	75%	75%	BEh	BFh	
		Quad - 35	192	193	75%	76%	C0h	C1h	
		Quad - 36	194	195	76%	76%	C2h	C3h	
		Quad - 37	196	197	77%	77%	C4h	C5h	
		Quad - 38	198	199	78%	78%	C6h	C7h	
		Quad - 39	200	201	78%	79%	C8h	C9h	
		Quad - 40	202	203	79%	80%	CAh	CBh	
		Quad - 41	204	205	80%	80%	CCh	CDh	
		Quad - 42	206	207	81%	81%	CEh	CFh	
		Quad - 43	208	209	82%	82%	D0h	D1h	
		Quad - 44	210	211	82%	83%	D2h	D3h	
		Quad - 45	212	213	83%	84%	D4h	D5h	
		Quad - 46	214	215	84%	84%	D6h	D7h	
		Quad - 47	216	217	85%	85%	D8h	D9h	
		Quad - 48	218	219	85%	86%	DAh	DBh	
		Quad - 49	220	221	86%	87%	DCh	DDh	
		Quad - 50	222	223	87%	87%	DEh	DFh	
		Quad - 51	224	225	88%	88%	E0h	E1h	
		Quad - 52	226	227	89%	89%	E2h	E3h	
		Quad - 53	228	229	89%	90%	E4h	E5h	
		Quad - 54	230	231	90%	91%	E6h	E7h	
		Quad - 55	232	233	91%	91%	E8h	E9h	
		Quad - 56	234	235	92%	92%	EAh	EBh	
Quad - 57	236	237	93%	93%	ECh	EDh			
Quad - 58	238	239	93%	94%	EEh	EFh			
Quad - 59	240	241	94%	95%	F0h	F1h			
Quad - 60	242	243	95%	95%	F2h	F3h			
Quad - 61	244	245	96%	96%	F4h	F5h			
Quad - 62	246	247	96%	97%	F6h	F7h			
Quad - 63	248	249	97%	98%	F8h	F9h			
Quad - 64	250	251	98%	98%	FAh	FBh			
Open	252	253	99%	99%	FCh	FDh			
Reserved (see note 4 on page 10)	254	255	100%	100%	FEh	FFh			

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
6	Color Wheel 1 Mode	Full Speed Control								48
		Indexed	0	15	0%	6%	00h	0Fh		
		Forward Spin	16	31	6%	12%	10h	1Fh		
		Reverse Spin	32	47	13%	18%	20h	2Fh		
		Continuous (see note 1 on page 10)	48	63	19%	25%	30h	3Fh		
		Fast Scan	64	79	25%	31%	40h	4Fh		
		Random	80	95	31%	37%	50h	5Fh		
		Blink (see note 5 on page 10)	96	111	38%	44%	60h	6Fh		
		Reserved (see note 4 on page 10)	96	255	38%	100%	60h	FFh		
7	Color Wheel 1	Indexed & Blink								0
		1. Open (White)	0	14	0%	5%	00h	1Fh		
		2. Open/Yellow	15	29	6%	11%	00h	1Fh		
		3. Yellow	30	44	12%	17%	00h	1Fh		
		4. Yellow/Light Yellow	45	59	18%	23%	00h	1Fh		
		5. Light Yellow	60	74	24%	29%	00h	1Fh		
		6. Light Yellow/Pink	75	89	29%	35%	00h	1Fh		
		7. Pink	90	104	35%	41%	00h	1Fh		
		8. Pink/Straw	105	119	41%	47%	00h	1Fh		
		9. Straw	120	134	47%	53%	00h	1Fh		
		10. Straw/Soft White	135	149	53%	58%	00h	1Fh		
		11. Soft White	150	164	59%	64%	00h	1Fh		
		12. Soft White/Neon Pink	165	179	65%	70%	00h	1Fh		
		13. Neon Pink	180	194	71%	76%	00h	1Fh		
		14. Neon Pink/Sky Blue	195	209	76%	82%	00h	1Fh		
		15. Sky Blue	210	224	82%	88%	00h	1Fh		
		16. Sky Blue/Open	225	239	88%	94%	00h	1Fh		
		1. Open (White)	240	255	94%	100%	00h	1Fh		
		Scan								
		1. Open/Yellow	0	29	0%	11%	00h	1Dh		
		2. Yellow/Light Yellow	30	59	12%	23%	1Eh	3Bh		
		3. Light Yellow/Pink	60	89	24%	35%	3Ch	59h		
		4. Pink/Straw	90	119	35%	47%	5Ah	77h		
		5. Straw/Soft White	120	149	47%	58%	78h	95h		
		6. Soft White/Neon Pink	150	179	59%	70%	96h	B3h		
		7. Neon Pink/Sky Blue	180	209	71%	82%	B4h	D1h		
		8. Sky Blue/Open	210	255	82%	100%	D2h	FFh		
		Spin & Random								
		Stop	0		0%	0%	00h	00h		
		Slowest to Fastest	1	255	0%	100%	01h	FFh		
		Continuous								
		Positioning from 0–359 degrees	0	255	0%	100%	00h	FFh		

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Ministar DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
8	Color Wheel 2 Mode	Full Speed Control								48
		Indexed	0	15	0%	6%	00h	0Fh		
		Forward Spin	16	31	6%	12%	10h	1Fh		
		Reverse Spin	32	47	13%	18%	20h	2Fh		
		Continuous (see note 1 on page 10)	48	63	19%	25%	30h	3Fh		
		Fast Scan	64	79	25%	31%	40h	4Fh		
		Random	80	95	31%	37%	50h	5Fh		
		Blink (see note 5 on page 10)	96	111	38%	44%	60h	6Fh		
		Reserved (see note 4 on page 10)	96	255	38%	100%	60h	FFh		
9	Color Wheel 2	Indexed & Blink								0
		1. Open (White)	0	14	0%	5%	00h	0Eh		
		2. Open/Deep Lavender	15	29	6%	11%	0Fh	1Dh		
		3. Deep Lavender	30	44	12%	17%	1Eh	2Ch		
		4. Deep Lavender/Full CTB	45	59	18%	23%	2Dh	3Bh		
		5. Full CTB	60	74	24%	29%	3Ch	4Ah		
		6. Full CTB/Daylight Blue	75	89	29%	35%	4Bh	59h		
		7. Daylight Blue	90	104	35%	41%	5Ah	68h		
		8. Daylight Blue/Azalea	105	119	41%	47%	69h	77h		
		9. Azalea	120	134	47%	53%	78h	86h		
		10. Azalea/Arctic Blue	135	149	53%	58%	87h	95h		
		11. Arctic Blue	150	164	59%	64%	96h	A4h		
		12. Arctic Blue/Neutral White	165	179	65%	70%	A5h	B3h		
		13. Neutral White	180	194	71%	76%	B4h	C2h		
		14. Neutral White/Primary Blue	195	209	76%	82%	C3h	D1h		
		15. Primary Blue	210	224	82%	88%	D2h	E0h		
		16. Primary Blue/Open	225	239	88%	94%	E1h	EFh		
		1. Open (White)	240	255	94%	100%	F0h	FFh		
		Scan								
		1. Open/Deep Lavender	0	29	0%	11%	00h	1Dh		
		2. Deep Lavender/Full CTB	30	59	12%	23%	1Eh	3Bh		
		3. Full CTB/Daylight Blue	60	89	24%	35%	3Ch	59h		
		4. Daylight Blue/Azalea	90	119	35%	47%	5Ah	77h		
		5. Azalea/Arctic Blue	120	149	47%	58%	78h	95h		
		6. Arctic Blue/Neutral White	150	179	59%	70%	96h	B3h		
		7. Neutral White/Primary Blue	180	209	71%	82%	B4h	D1h		
		8. Primary Blue/Open	210	255	82%	100%	D2h	FFh		
		Spin & Random								
		Stop	0		0%	0%	00h	00h		
		Slowest to Fastest	1	255	0%	100%	01h	FFh		
		Continuous								
		Positioning from 0–359 degrees	0	255	0%	100%	00h	FFh		

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
10	Rotating Gobo Wheel 1 Mode	Indexed (see note 1 on page 10)	0	15	0%	6%	00h	0Fh	0	
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh		
11	Rotating Gobo Wheel 1	Indexed							0	
		1. (Open)	0	15	0%	6%	00h	0Fh		
		2. Bar	16	31	6%	12%	10h	1Fh		
		3. Quadricles	32	47	13%	18%	20h	2Fh		
		4. Broken Tunnel	48	63	19%	25%	30h	3Fh		
		5. Seashell	64	79	25%	31%	40h	4Fh		
		6. Shower	80	95	31%	37%	50h	5Fh		
		7. Ice	96	111	38%	44%	60h	6Fh		
		1. (Open)	112	255	44%	100%	70h	FFh		
		Scan								
		1. Open/Bar	0	15	0%	6%	00h	0Fh		
		2. Bar/Quadricles	16	31	6%	12%	10h	1Fh		
		3. Quadricles/Broken Tunnel	32	47	13%	18%	20h	2Fh		
		4. Broken Tunnel/Seashell	48	63	19%	25%	30h	3Fh		
		5. Seashell/Shower	64	79	25%	31%	40h	4Fh		
		6. Shower/Ice	80	95	31%	37%	50h	5Fh		
		7. Ice/Open	96	111	38%	44%	60h	6Fh		
		Reserved (see note 4 on page 10)	112	255	44%	100%	70h	FFh		
		Spin & Random								
		Rotate Stop	0	3	0%	1%	00h	03h		
Slowest to Fastest	4	255	2%	100%	04h	FFh				
12	Gobo 1 Rotate Mode	Indexed (see note 1 on page 10)	0	15	0%	6%	00h	0Fh	0	
		Forward Rotate	16	31	6%	12%	10h	1Fh		
		Reverse Rotate	32	47	13%	18%	20h	2Fh		
		Forward Animate	48	63	19%	25%	30h	3Fh		
		Reverse Animate	64	79	25%	31%	40h	4Fh		
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh		
13/14	Gobo 1 Rotate (Coarse/Fine)	Indexed							0	
		Position 0–359 degrees	0	65535	0%	100%	00h	FFFFh		
		Forward/Reverse/Forward Strobe/Reverse Strobe								
		Rotate Stop	0	3	0%	1%	00h	03h		
		Rotate Slowest to Fastest	4	65535	2%	100%	04h	FFFFh		
15	Fixed Gobo Wheel 2 Mode	Indexed (see note 1 on page 10)	0	15	0%	6%	00h	0Fh	0	
		Forward Wheel Spin	16	31	6%	12%	10h	1Fh		
		Reverse Wheel Spin	32	47	13%	18%	20h	2Fh		
		Scan	48	63	19%	25%	30h	3Fh		
		Random	64	79	25%	31%	40h	4Fh		
		Reserved (see note 4 on page 10)	80	255	31%	100%	50h	FFh		

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
16	Fixed Gobo Wheel 2	Indexed								
		1. (Open)	0	15	0%	6%	00h	0Fh	0	
		2. Shattered	16	31	6%	12%	10h	1Fh		
		3. Misc Spot	32	47	13%	18%	20h	2Fh		
		4. Light Organic	48	63	19%	25%	30h	3Fh		
		5. Thatch	64	79	25%	31%	40h	4Fh		
		6. Across	80	95	31%	37%	50h	5Fh		
		7. Triangles	96	111	38%	44%	60h	6Fh		
		8. Daisey	112	127	44%	50%	70h	7Fh		
		9. Big Dot	128	143	50%	56%	80h	8Fh		
		10. Dot	144	159	56%	62%	90h	9Fh		
		1. (Open)	160	255	63%	100%	A0h	FFh		
		Scan								
		1. Open/Shattered	0	15	0%	6%	00h	0Fh		
		2. Shattered/Misc Spot	16	31	6%	12%	10h	1Fh		
		3. Misc Spot/Light Organic	32	47	13%	18%	20h	2Fh		
		4. Light Organic/Thatch	48	63	19%	25%	30h	3Fh		
		5. Thatch/Across	64	79	25%	31%	40h	4Fh		
6. Across/Triangles	80	95	31%	37%	50h	5Fh				
7. Triangles/Daisey	96	111	38%	44%	60h	6Fh				
8. Daisey/Big Dot	112	127	44%	50%	70h	7Fh				
9. Big Dot/Dot	128	143	50%	56%	80h	8Fh				
10. Dot/Open	144	159	56%	62%	90h	9Fh				
Spin & Random										
Rotate Stop	0	3	0%	1%	00h	03h				
Slowest to Fastest	4	255	2%	100%	04h	FFh				
17	Prism 1 Mode	Disengaged	0	15	0%	6%	00h	0Fh	0	
		Continuous	16	31	6%	12%	10h	1Fh		
		Forward Spin	32	47	13%	18%	20h	2Fh		
		Reverse Spin	48	63	19%	25%	30h	3Fh		
		Forward Animate	64	79	25%	31%	40h	4Fh		
		Reverse Animate	80	95	31%	37%	50h	5Fh		
		Reserved (see note 4 on page 10)	96	255	38%	100%	60h	FFh		
18/19	Prism 1 Rotate (Coarse/Fine)	Continuous							0	
		Position 0–359 degrees	0	65535	0%	100%	00h	FFFFh		
		Forward/Reverse/Forward Strobe/Reverse Strobe								
		Rotate Stop	0	3	0%	1%	00h	03h		
Rotate Slowest to Fastest	4	65535	2%	100%	04h	FFFFh				
20	Diffusion 1	Open (Hard Edge)	0		0%	0%	00h	00h	0	
		Variable Edge (Hard to Soft)	1	127	0%	50%	01h	7Fh		
		Soft Edge	128	135	50%	53%	80h	87h		
		Periodic Strobe	136	151	53%	59%	88h	97h		
		Random Strobe	152	167	60%	65%	98h	A7h		
		Open (Hard Edge)	168	225	66%	88%	A8h	E1h		
21/22	Focus (Coarse/Fine)	Focus	0	65535	0%	100%	00h	FFFFh	32768	

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Ministar DMX Channel Map

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
23/24	Zoom (Coarse/Fine)	Zoom	0	65535	0%	100%	00h	FFFFh	32768
25	Strobe Mode	Normal	0	31	0%	12%	00h	1Fh	0
		Random Random Strobe	32	63	13%	25%	20h	3Fh	
		Synchronous Random Strobe (see note 2 on page 10)	64	95	25%	37%	40h	5Fh	
		Normal	96	255	38%	100%	60h	FFh	
26	Strobe	Normal/Random/Sync Random							255
		Close	0	23	0%	9%	00h	17h	
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h	
		Open	230	255	90%	100%	E6h	FFh	
27/28	Dimmer (Coarse/Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	255
29	mSpeed	Off	0	3	0%	1%	00h	03h	0
		Slow to Fast	4	255	2%	100%	04h	FFh	
30	Control	The Control channel should not be crossfaded. No shutter channel requirement.							0
		Idle	0	15	0%	6%	00h	0Fh	
		Reserved (see note 4 on page 10)	16	31	6%	12%	10h	1Fh	
		Display off (3 s)	32	47	13%	18%	20h	2Fh	
		Display on (3 s)	48	63	19%	25%	30h	3Fh	
		Reserved (see note 4 on page 10)	64	79	25%	31%	40h	4Fh	
		Home all (3 s)	80	95	31%	37%	50h	5Fh	
		Shutdown (9 s)	96	111	38%	44%	60h	6Fh	
		Disable Pan/Tilt Motors (3 s) (see note 7 on page 10)	112	127	44%	50%	70h	7Fh	
		Dimming mode - 2.4kHz (3 s)	128	143	50%	56%	80h	8Fh	
		Dimming mode - 16kHz (3 s)	144	159	56%	62%	90h	9Fh	
		Reserved (see note 4 on page 10)	160	255	63%	100%	A0h	FFh	
31	Fan (see note 3 on page 10)	Idle	0	15	0%	6%	00h	0Fh	0
		Slow to Fast	16	207	6%	81%	10h	CFh	
		Auto	208	223	82%	87%	D0h	DFh	
		Studio	224	239	88%	94%	E0h	EFh	
		Reserved (see note 4 on page 10)	240	255	94%	100%	F0h	FFh	

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Ministar DMX Channel Map

Notes

1	Continuous and Indexed modes should take the quickest path from 255–0 and 0–255. Continuous mode color wheel aperture centers are as follows:	
	Color Wheel 1	
	Color	Center of Color DMX Value
	Open	0
	Yellow	33
	Light Yellow	65
	Pink	97
	Straw	129
	Soft White	161
	Neon Pink	193
	Sky Blue	225
	Color Wheel 2	
	Color	Center of Color DMX Value
	Open	0
Deep Lavender	32	
Full CTB	64	
Daylight Blue	96	
Azalea	128	
Arctic Blue	160	
Neutral White	192	
Primary Blue	224	
2	Synchronous random strobes are synchronized across fixtures.	
3	When the fixture is turned off it will retain the selected fan mode.	
4	Reserved ranges should function according to the controller default value.	
5	The Blink mode turns off the light engine while the color wheel is moving and turns the light engine on again when the target color is reached.	
6	The Color Macro channel takes precedence over color wheel functions. You must set the Color Macro channel to Idle to control the color wheels independently. The Color Macro channel should always be in blink mode. Color Macros are defined in Color Macros on page 12 .	
7	Upon loss of power, the fixture does not retain the Disable Pan/Tilt Motors setting.	

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Ministar DMX Channel Map

DMX Fixture Orientation (Tilt Movement Range: 255°; Pan Movement Range: 540°) (Pan and tilt lock locations are highlighted in orange.)	
8	<p>0 DMX ← 255 DMX</p> <p>Display Power Display Power Display Power</p> <p>Tilt = 255 DMX Pan = 127 DMX</p>
	<p>Display Power Display Power Display Power</p> <p>Tilt = 127 DMX Pan = 127 DMX</p>
	<p>Display Power Display Power Display Power</p> <p>Tilt = 0 DMX Pan = 127 DMX</p>
	<p>0 DMX 255 DMX</p> <p>Display Power</p> <p>Pan = 0 DMX Tilt = 37 DMX</p>
	<p>Display Power</p> <p>Pan = 127 DMX Tilt = 37 DMX</p>
	<p>Display Power</p> <p>Pan = 255 DMX Tilt = 37 DMX</p>
9	RDM Manufacturer ID: 0x4c52
10	RDM Device ID: 0x2F0B

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Ministar DMX Channel Map

Color Macros

Macro Name/DMX range			Macro Wheel Position Definition			
Description	Decimal Low	Decimal High	Wheel 1 DMX	Wheel 1 Color	Wheel 2 DMX	Wheel 2 Color
Idle 	0	1	0	Open	0	Open
Geranium 	2	3	60	Light Yellow	30	Deep Lavender
PrimaryRed 	4	5	30	Yellow	30	Deep Lavender
MediumRose 	6	7	120	Straw	120	Azalea
LightRose 	8	9	90	Pink	180	Neutral White
Apricot 	10	11	60	Light Yellow	120	Azalea
Orange 	12	13	30	Yellow	120	Azalea
PaleYellow 	14	15	120	Straw	180	Neutral White
Straw 	16	17	120	Straw	0	Open
Lemon 	18	19	30	Yellow	180	Neutral White
Sunflower 	20	21	60	Light Yellow	180	Neutral White
Yellow 	22	23	30	Yellow	0	Open
LightYellow 	24	25	60	Light Yellow	0	Open
PeaGreen 	26	27	30	Yellow	60	Full CTB
NotEasyGreen 	28	29	60	Light Yellow	60	Full CTB
VibrantGreen 	30	31	30	Yellow	90	Daylight Blue
GrassGreen 	32	33	60	Light Yellow	90	Daylight Blue
PrimaryGreen 	34	35	30	Yellow	150	Arctic Blue
DeepGreen 	36	37	30	Yellow	210	Primary Blue
BrightGreen 	38	39	60	Light Yellow	150	Arctic Blue
Emerald 	40	41	60	Light Yellow	210	Primary Blue
Seafoam 	42	43	120	Straw	90	Daylight Blue
Wintergreen 	44	45	120	Straw	150	Arctic Blue
Honeydew 	46	47	150	Soft White	90	Daylight Blue
Aqua 	48	49	210	Sky Blue	180	Neutral White
Cerulean 	50	51	150	Soft White	150	Arctic Blue

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Ministar DMX Channel Map

Macro Name/DMX range			Macro Wheel Position Definition			
Description	Decimal Low	Decimal High	Wheel 1 DMX	Wheel 1 Color	Wheel 2 DMX	Wheel 2 Color
DaylightBlue 	52	53	0	Open	90	Daylight Blue
SkyBlue 	54	55	210	Sky Blue	0	Open
IcebergBlue 	56	57	210	Sky Blue	150	Arctic Blue
ArcticBlue 	58	59	0	Open	150	Arctic Blue
DeepSkyBlue 	60	61	210	Sky Blue	60	Full CTB
OceanBlue 	62	63	120	Straw	210	Primary Blue
Cyan 	64	65	150	Soft White	210	Primary Blue
PrimaryBlue 	66	67	0	Open	210	Primary Blue
RoyalBlue 	68	69	210	Sky Blue	120	Azalea
Larkspur 	70	71	180	Neon Pink	150	Arctic Blue
PowerBlue 	72	73	180	Neon Pink	210	Primary Blue
Indigo 	74	75	210	Sky Blue	30	Deep Lavender
DeepPurple 	76	77	90	Pink	210	Primary Blue
DuskyPurple 	78	79	90	Pink	150	Arctic Blue
Lavender 	80	81	180	Neon Pink	90	Daylight Blue
Pur-ink 	82	83	180	Neon Pink	60	Full CTB
Azalea 	84	85	0	Open	120	Azalea
Carnation 	86	87	180	Neon Pink	180	Neutral White
Hydrangea 	88	89	90	Pink	120	Azalea
FancyPink 	90	91	150	Soft White	120	Azalea
NeonPink 	92	93	180	Neon Pink	0	Open
Orchid 	94	95	180	Neon Pink	120	Azalea
DeepLavender 	96	97	0	Open	30	Deep Lavender
Magenta 	98	99	90	Pink	30	Deep Lavender
HotMagenta 	100	101	150	Soft White	30	Deep Lavender
Fuchsia 	102	103	120	Straw	30	Deep Lavender
Pink 	104	105	90	Pink	0	Open

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Ministar DMX Channel Map

Macro Name/DMX range			Macro Wheel Position Definition				
Description		Decimal Low	Decimal High	Wheel 1 DMX	Wheel 1 Color	Wheel 2 DMX	Wheel 2 Color
SoftWhite		106	107	150	Soft White	0	Open
WarmWhite		108	109	150	Soft White	180	Neutral White
LightPink		110	111	90	Pink	60	Full CTB
GreenTint		112	113	120	Straw	60	Full CTB
NeutralWhite		114	115	0	Open	180	Neutral White
MercuryArc		116	117	90	Pink	90	Daylight Blue
Smoke		118	119	150	Soft White	60	Full CTB
FullCTB		120	121	0	Open	60	Full CTB
Open		122	123	0	Open	180	Open
Quad - 1		124	125	15	Open/Yellow	15	Open/Deep Lavender
Quad - 2		126	127	45	Yellow/Light Yellow	45	Deep Lavender/Full CTB
Quad - 3		128	129	75	Light Yellow/Pink	75	Full CTB/Daylight Blue
Quad - 4		130	131	105	Pink/Straw	105	Daylight Blue/Azalea
Quad - 5		132	133	135	Straw/Soft White	135	Azalea/Arctic Blue
Quad - 6		134	135	165	Soft White/Neon Pink	165	Arctic Blue/Neutral White
Quad - 7		136	137	195	Neon Pink/Sky Blue	195	Neutral White/Primary Blue
Quad - 8		138	139	225	Sky Blue/Open	225	Primary Blue/Open
Quad - 9		140	141	225	Sky Blue/Open	195	Neutral White/Primary Blue
Quad - 10		142	143	195	Neon Pink/Sky Blue	165	Arctic Blue/Neutral White
Quad - 11		144	145	165	Soft White/Neon Pink	135	Azalea/Arctic Blue
Quad - 12		146	147	135	Straw/Soft White	105	Daylight Blue/Azalea
Quad - 13		148	149	105	Pink/Straw	75	Full CTB/Daylight Blue
Quad - 14		150	151	75	Light Yellow/Pink	45	Deep Lavender/Full CTB
Quad - 15		152	153	45	Yellow/Light Yellow	15	Open/Deep Lavender
Quad - 16		154	155	75	Light Yellow/Pink	15	Open/Deep Lavender
Quad - 17		156	157	105	Pink/Straw	45	Deep Lavender/Full CTB

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Ministar DMX Channel Map

Macro Name/DMX range			Macro Wheel Position Definition			
Description	Decimal Low	Decimal High	Wheel 1 DMX	Wheel 1 Color	Wheel 2 DMX	Wheel 2 Color
Quad - 18 	158	159	135	Straw/Soft White	75	Full CTB/Daylight Blue
Quad - 19 	160	161	165	Soft White/Neon Pink	105	Daylight Blue/Azalea
Quad - 20 	162	163	195	Neon Pink/Sky Blue	135	Azalea/Arctic Blue
Quad - 21 	164	165	225	Sky Blue/Open	165	Arctic Blue/Neutral White
Quad - 22 	166	167	225	Sky Blue/Open	135	Azalea/Arctic Blue
Quad - 23 	168	169	195	Neon Pink/Sky Blue	105	Daylight Blue/Azalea
Quad - 24 	170	171	165	Soft White/Neon Pink	75	Full CTB/Daylight Blue
Quad - 25 	172	173	135	Straw/Soft White	45	Deep Lavender/Full CTB
Quad - 26 	174	175	105	Pink/Straw	15	Open/Deep Lavender
Quad - 27 	176	177	135	Straw/Soft White	15	Open/Deep Lavender
Quad - 28 	178	179	165	Soft White/Neon Pink	45	Deep Lavender/Full CTB
Quad - 29 	180	181	195	Neon Pink/Sky Blue	75	Full CTB/Daylight Blue
Quad - 30 	182	183	225	Sky Blue/Open	105	Daylight Blue/Azalea
Quad - 31 	184	185	225	Sky Blue/Open	75	Full CTB/Daylight Blue
Quad - 32 	186	187	195	Neon Pink/Sky Blue	45	Deep Lavender/Full CTB
Quad - 33 	188	189	165	Soft White/Neon Pink	15	Open/Deep Lavender
Quad - 34 	190	191	195	Neon Pink/Sky Blue	15	Open/Deep Lavender
Quad - 35 	192	193	225	Sky Blue/Open	15	Open/Deep Lavender
Quad - 36 	194	195	225	Sky Blue/Open	45	Deep Lavender/Full CTB
Quad - 37 	196	197	15	Open/Yellow	225	Primary Blue/Open
Quad - 38 	198	199	15	Open/Yellow	195	Neutral White/Primary Blue
Quad - 39 	200	201	45	Yellow/Light Yellow	225	Primary Blue/Open
Quad - 40 	202	203	75	Light Yellow/Pink	225	Primary Blue/Open
Quad - 41 	204	205	45	Yellow/Light Yellow	195	Neutral White/Primary Blue
Quad - 42 	206	207	15	Open/Yellow	165	Arctic Blue/Neutral White
Quad - 43 	208	209	15	Open/Yellow	135	Azalea/Arctic Blue

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Ministar DMX Channel Map

Macro Name/DMX range			Macro Wheel Position Definition			
Description	Decimal Low	Decimal High	Wheel 1 DMX	Wheel 1 Color	Wheel 2 DMX	Wheel 2 Color
Quad - 44 	210	211	45	Yellow/Light Yellow	165	Arctic Blue/Neutral White
Quad - 45 	212	213	75	Light Yellow/Pink	195	Neutral White/Primary Blue
Quad - 46 	214	215	105	Pink/Straw	225	Primary Blue/Open
Quad - 47 	216	217	135	Straw/Soft White	225	Primary Blue/Open
Quad - 48 	218	219	105	Pink/Straw	195	Neutral White/Primary Blue
Quad - 49 	220	221	75	Light Yellow/Pink	165	Arctic Blue/Neutral White
Quad - 50 	222	223	45	Yellow/Light Yellow	135	Azalea/Arctic Blue
Quad - 51 	224	225	15	Open/Yellow	105	Daylight Blue/Azalea
Quad - 52 	226	227	15	Open/Yellow	75	Full CTB/Daylight Blue
Quad - 53 	228	229	45	Yellow/Light Yellow	105	Daylight Blue/Azalea
Quad - 54 	230	231	75	Light Yellow/Pink	135	Azalea/Arctic Blue
Quad - 55 	232	233	105	Pink/Straw	165	Arctic Blue/Neutral White
Quad - 56 	234	235	135	Straw/Soft White	195	Neutral White/Primary Blue
Quad - 57 	236	237	165	Soft White/Neon Pink	225	Primary Blue/Open
Quad - 58 	238	239	195	Neon Pink/Sky Blue	225	Primary Blue/Open
Quad - 59 	240	241	165	Soft White/Neon Pink	195	Neutral White/Primary Blue
Quad - 60 	242	243	135	Straw/Soft White	165	Arctic Blue/Neutral White
Quad - 61 	244	245	105	Pink/Straw	135	Azalea/Arctic Blue
Quad - 62 	246	247	75	Light Yellow/Pink	105	Daylight Blue/Azalea
Quad - 63 	248	249	45	Yellow/Light Yellow	75	Full CTB/Daylight Blue
Quad - 64 	250	251	15	Open/Yellow	45	Deep Lavender/Full CTB
Open 	252	253	0	Open	0	Open
Reserved (see note 4 on page 10)	254	255	0	Open	0	Open

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Ministar DMX Channel Map

Ministar Gobos

Rotating Gobo Wheel

Position	Name	Image
0	Open	N/A
1	Bar	
2	Quadracles	
3	Broken Tunnel	
4	Seashell	
5	Shower	
6	Ice	

Fixed Gobo Wheel

Position	Name	Image
0	Open	N/A
1	Shattered	
2	MiscSpots	
3	Light Organic	
4	Thatch	
5	Across	
6	Triangles	
7	Daisey	
8	Big Dot	
9	Dot	

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Ministar DMX Channel Map

Revision History

Revision	Change	Release Date
A	Initial release	January 2024