

ETC Reference Guide

High End Systems GigaPix DMX Channel Map

GigaPix DMX Channel Map

Base Module	
Channel	Function
1	Pan Coarse
2	Pan Fine
3	Tilt Coarse
4	Tilt Fine
5	Color Mode
6	Red
7	Green
8	Blue
9	Lime
10	Color Correction
11	Module Priority
12	Zoom Coarse
13	Zoom Fine
14	Strobe Mode
15	Strobe
16	Dimmer Coarse
17	Dimmer Fine
18	Background Color
19	Flex/Macro Mode
20	Flex/Macro Speed
21	Flex/Macro Crossfade
22	Flex/Macro nShot
23	mSpeed
24	Fan Speed
25	Control

For Base+Flex/Macro mode, add these channels to the Base Module	
Channel	Function
26	Flex/Macro 1 - Red
27	Flex/Macro 1 - Green
28	Flex/Macro 1 - Blue
29	Flex/Macro 1 - Lime
30	Flex/Macro 2 - Red
31	Flex/Macro 2 - Green
32	Flex/Macro 2 - Blue
33	Flex/Macro 2 - Lime
34	Flex/Macro 3 - Red
35	Flex/Macro 3 - Green
36	Flex/Macro 3 - Blue
37	Flex/Macro 3 - Lime
38	Flex/Macro 4 - Red
39	Flex/Macro 4 - Green
40	Flex/Macro 4 - Blue
41	Flex/Macro 4 - Lime
42	Flex/Macro 5 - Red
43	Flex/Macro 5 - Green
44	Flex/Macro 5 - Blue
45	Flex/Macro 5 - Lime

Pixel Module	
Channel	Function
1	Pixel 1 - Red
2	Pixel 1 - Green
3	Pixel 1 - Blue
4	Pixel 1 - Lime
5	Pixel 2 - Red
6	Pixel 2 - Green
7	Pixel 2 - Blue
8	Pixel 2 - Lime
9	Pixel 3 - Red
10	Pixel 3 - Green
11	Pixel 3 - Blue
12	Pixel 3 - Lime
13	Pixel 4 - Red
14	Pixel 4 - Green
15	Pixel 4 - Blue
16	Pixel 4 - Lime
17	Pixel 5 - Red
18	Pixel 5 - Green
19	Pixel 5 - Blue
20	Pixel 5 - Lime
21	Pixel 6 - Red
22	Pixel 6 - Green
23	Pixel 6 - Blue
24	Pixel 6 - Lime
25	Pixel 7 - Red
26	Pixel 7 - Green
27	Pixel 7 - Blue
28	Pixel 7 - Lime
29	Pixel 8 - Red
30	Pixel 8 - Green
31	Pixel 8 - Blue
32	Pixel 8 - Lime
33	Pixel 9 - Red
34	Pixel 9 - Green
35	Pixel 9 - Blue
36	Pixel 9 - Lime

Wash			
Channel	Function	Channel	Function
1	Pan Coarse	9	Color Correction
2	Pan Fine	10	Zoom
3	Tilt Coarse	11	Shutter/LED Function
4	Tilt Fine	12	Shutter
5	Red	13	Dimmer Coarse
6	Green	14	Dimmer Fine
7	Blue	15	Control
8	Lime		



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Notes:

There are six recommended library layouts based on the protocol and the settings of the Pixel module. We suggest that console libraries follow these guidelines:

1. Base
2. Base + Flex/Macro
3. Wash
4. Pixel
5. Base + Pixel
 - a. Base Control is on the source fixture number.
 - b. Pixel module should start with Pixel 1 as the .1 address.
 - c. Pixel RGBL control options utilize virtual console dimming when available. The dimmer control in Base is a source over all output including Base and the Pixel module.
6. Base + Flex/Macro + Pixel
 - a. Base Control is on the source fixture number.
 - b. Pixel module should start with Pixel 1 as the .1 address.
 - c. Flex/Macro 1 through 5 should be compound addresses .10, .11, .12, .13, .14.
 - d. Flex/Macro and Pixel RGBL control options utilize virtual console dimming when available. The dimmer control in Base is a source over all output including Base +Flex/Macro and the Pixel module.

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Base Module

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1/2	Pan (Coarse/Fine)	See note 12 on page 12	0	65535	0%	100%	00h	FFFFh	32767
3/4	Tilt (Coarse/Fine)	See note 12 on page 12	0	65535	0%	100%	00h	FFFFh	32767
5	Mix Color Function	RGB	0	15	0%	6%	00h	0Fh	0
		RBG	16	31	6%	12%	10h	1Fh	
		BRG	32	47	13%	18%	20h	2Fh	
		BGR	48	63	19%	25%	30h	3Fh	
		GRB	64	79	25%	31%	40h	4Fh	
		GBR	80	95	31%	37%	50h	5Fh	
		CMY	96	111	38%	44%	60h	6Fh	
		CYM	112	127	44%	50%	70h	7Fh	
		YCM	128	143	50%	56%	80h	8Fh	
		YMC	144	159	56%	62%	90h	9Fh	
		MCY	160	175	63%	69%	A0h	AFh	
		MYC	176	191	69%	75%	B0h	BFh	
		Cycle	192	207	75%	81%	C0h	CFh	
		Random	208	223	82%	87%	D0h	DFh	
		Reserved (see note 3 on page 11)	224	255	88%	100%	E0h	FFh	
6	Red	Off to Full	0	255	0%	100%	00h	FFh	255
7	Green	Off to Full	0	255	0%	100%	00h	FFh	255
8	Blue	Off to Full	0	255	0%	100%	00h	FFh	255
9	Lime	Off to Full	0	255	0%	100%	00h	FFh	255
10	Color Correction (see note 14 on page 12)	Off	0	0	0%	0%	00h	00h	0
		Warm to Cool	1	255	0%	100%	01h	FFh	
11	Module Priority (see note 1 on page 11)	Pixel > Flex/Macro > Base	0	7	0%	3%	00h	07h	8
		Flex/Macro > Pixel > Base	8	15	3%	6%	08h	0Fh	
		Pixel > Base	16	23	6%	9%	10h	17h	
		Flex/Macro > Base	24	31	9%	12%	18h	1Fh	
		Base	32	39	13%	15%	20h	27h	
		Pixel	40	47	16%	18%	28h	2Fh	
		Reserved (see note 3 on page 11)	48	255	19%	100%	30h	FFh	
12/13	Zoom (Coarse/Fine)	Narrow to Wide	0	65535	0%	100%	00h	FFFFh	0
14	Strobe Mode	Off	0	15	0%	6%	00h	0Fh	0
		Synchronous	16	31	6%	12%	10h	1Fh	
		Random	32	47	13%	18%	20h	2Fh	
		Random Pixel	48	63	19%	25%	30h	3Fh	
		Random Pixel/Color	64	79	25%	31%	40h	4Fh	
		Synchronous Random	80	95	31%	37%	50h	5Fh	
		Reserved (see note 3 on page 11)	96	255	38%	100%	60h	FFh	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults	
15	Strobe Rate	Off	0	23	0%	9%	00h	17h	255	
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h		
		Open	230	255	90%	100%	E6h	FFh		
16/17	Dimmer (Coarse/Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	65535	
18	Background Color (see note 7 on page 11)	Off	0	1	0%	0%	00h	01h	0	
		Background Dim Tracking Mode (see note 6 on page 11)								
		Red Background Color								
		Red Background 3%	2	3	1%	1%	02h	03h		
		Red Background 5%	4	5	2%	2%	04h	05h		
		Red Background 6%	6	7	2%	3%	06h	07h		
		Red Background 8%	8	9	3%	4%	08h	09h		
		Red Background 10%	10	11	4%	4%	0Ah	0Bh		
		Red Background 12%	12	13	5%	5%	0Ch	0Dh		
		Green Background Color								
		Green Background 3%	14	15	5%	6%	0Eh	0Fh		
		Green Background 5%	16	17	6%	7%	10h	11h		
		Green Background 6%	18	19	7%	7%	12h	13h		
		Green Background 8%	20	21	8%	8%	14h	15h		
		Green Background 10%	22	23	9%	9%	16h	17h		
		Green Background 12%	24	25	9%	10%	18h	19h		
		Blue Background Color								
		Blue Background 3%	26	27	10%	11%	1Ah	1Bh		
		Blue Background 5%	28	29	11%	11%	1Ch	1Dh		
		Blue Background 6%	30	31	12%	12%	1Eh	1Fh		
		Blue Background 8%	32	33	13%	13%	20h	21h		
		Blue Background 10%	34	35	13%	14%	22h	23h		
		Blue Background 12%	36	37	14%	15%	24h	25h		
		Cyan Background Color								
		Cyan Background 3%	38	39	15%	15%	26h	27h		
		Cyan Background 5%	40	41	16%	16%	28h	29h		
		Cyan Background 6%	42	43	16%	17%	2Ah	2Bh		
		Cyan Background 8%	44	45	17%	18%	2Ch	2Dh		
		Cyan Background 10%	46	47	18%	18%	2Eh	2Fh		
		Cyan Background 12%	48	49	19%	19%	30h	31h		
		Magenta Background Color								
		Magenta Background 3%	50	51	20%	20%	32h	33h		
		Magenta Background 5%	52	53	20%	21%	34h	35h		
		Magenta Background 6%	54	55	21%	22%	36h	37h		
		Magenta Background 8%	56	57	22%	22%	38h	39h		
		Magenta Background 10%	58	59	23%	23%	3Ah	3Bh		
		Magenta Background 12%	60	61	24%	24%	3Ch	3Dh		

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
18 (continued)	Background Color (see note 7 on page 11)	Yellow Background Color							0
		Yellow Background 3%	62	63	24%	25%	3Eh	3Fh	
		Yellow Background 5%	64	65	25%	25%	40h	41h	
		Yellow Background 6%	66	67	26%	26%	42h	43h	
		Yellow Background 8%	68	69	27%	27%	44h	45h	
		Yellow Background 10%	70	71	27%	28%	46h	47h	
		Yellow Background 12%	72	73	28%	29%	48h	49h	
		Lime Background Color (see note 8 on page 11)							
		Lime Background 3%	74	75	29%	29%	4Ah	4Bh	
		Lime Background 5%	76	77	30%	30%	4Ch	4Dh	
		Lime Background 6%	78	79	31%	31%	4Eh	4Fh	
		Lime Background 8%	80	81	31%	32%	50h	51h	
		Lime Background 10%	82	83	32%	33%	52h	53h	
		Lime Background 12%	84	85	33%	33%	54h	55h	
		White Background Color (see note 9 on page 11)							
		White Background 3%	86	97	34%	38%	56h	61h	
		White Background 5%	88	89	35%	35%	58h	59h	
		White Background 6%	90	91	35%	36%	5Ah	5Bh	
		White Background 8%	92	93	36%	36%	5Ch	5Dh	
		White Background 10%	94	95	37%	37%	5Eh	5Fh	
		White Background 12%	96	97	38%	38%	60h	61h	
		Reserved (see note 3 on page 11)	98	127	38%	50%	62h	7Fh	
		Independent Dim Mode (see note 10 on page 11)							
		Red Background Color							
		Red Background 3%	128	129	50%	51%	80h	81h	
		Red Background 5%	130	131	51%	51%	82h	83h	
		Red Background 6%	132	133	52%	52%	84h	85h	
		Red Background 8%	134	135	53%	53%	86h	87h	
		Red Background 10%	136	137	53%	54%	88h	89h	
		Red Background 12%	138	139	54%	55%	8Ah	8Bh	
		Green Background Color							
		Green Background 3%	140	141	55%	55%	8Ch	8Dh	
		Green Background 5%	142	143	56%	56%	8Eh	8Fh	
		Green Background 6%	144	145	56%	57%	90h	91h	
		Green Background 8%	146	147	57%	58%	92h	93h	
		Green Background 10%	148	149	58%	58%	94h	95h	
		Green Background 12%	150	151	59%	59%	96h	97h	
		Blue Background Color							
		Blue Background 3%	152	153	60%	60%	98h	99h	
		Blue Background 5%	154	155	60%	61%	9Ah	9Bh	
		Blue Background 6%	156	157	61%	62%	9Ch	9Dh	
		Blue Background 8%	158	159	62%	62%	9Eh	9Fh	
		Blue Background 10%	160	161	63%	63%	A0h	A1h	
		Blue Background 12%	162	163	64%	64%	A2h	A3h	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
18 (continued)	Background Color (see note 7 on page 11)	Cyan Background Color							
		Cyan Background 3%	164	165	64%	65%	A4h	A5h	
		Cyan Background 5%	166	167	65%	65%	A6h	A7h	
		Cyan Background 6%	168	169	66%	66%	A8h	A9h	
		Cyan Background 8%	170	171	67%	67%	AAh	ABh	
		Cyan Background 10%	172	173	67%	68%	ACH	ADh	
		Cyan Background 12%	174	175	68%	69%	Aeh	AFh	
		Magenta Background Color							
		Magenta Background 3%	176	177	69%	69%	B0h	B1h	
		Magenta Background 5%	178	179	70%	70%	B2h	B3h	
		Magenta Background 6%	180	181	71%	71%	B4h	B5h	
		Magenta Background 8%	182	183	71%	72%	B6h	B7h	
		Magenta Background 10%	184	185	72%	73%	B8h	B9h	
		Magenta Background 12%	186	187	73%	73%	BAh	BBh	
		Yellow Background Color							
		Yellow Background 3%	188	189	74%	74%	BCh	BDh	
		Yellow Background 5%	190	191	75%	75%	BEh	BFh	
		Yellow Background 6%	192	193	75%	76%	C0h	C1h	
		Yellow Background 8%	194	195	76%	76%	C2h	C3h	
		Yellow Background 10%	196	197	77%	77%	C4h	C5h	
		Yellow Background 12%	198	199	78%	78%	C6h	C7h	
		Lime Background Color (see note 8 on page 11)							
		Lime Background 3%	200	201	78%	79%	C8h	C9h	
		Lime Background 5%	202	203	79%	80%	CAh	CBh	
		Lime Background 6%	204	205	80%	80%	CCh	CDh	
		Lime Background 8%	206	207	81%	81%	CEh	CFh	
		Lime Background 10%	208	209	82%	82%	D0h	D1h	
		Lime Background 12%	210	211	82%	83%	D2h	D3h	
		White Background Color (see note 9 on page 11)							
		White Background 3%	212	213	83%	84%	D4h	D5h	
		White Background 5%	214	215	84%	84%	D6h	D7h	
		White Background 6%	216	217	85%	85%	D8h	D9h	
		White Background 8%	218	219	85%	86%	DAh	DBh	
		White Background 10%	220	221	86%	87%	DCh	DDh	
		White Background 12%	222	223	87%	87%	DEh	DFh	
		Reserved (see note 3 on page 11)	224	255	88%	100%	E0h	FFh	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
19	Flex/Macro Mode (see note 4 on page 11)	Macro off	0	0	0%	0%	00h	00h	0
		Inclusive Macro 1	1	1	0%	0%	01h	01h	
		...							
		Inclusive Macro 76	76	76	30%	30%	4Ch	4Ch	
		Static Macro 1	77	77	30%	30%	4Dh	4Dh	
		...							
		Static Macro 41	117	117	46%	46%	75h	75h	
		Reserved (see note 3 on page 11)	118	127	46%	50%	76h	7Fh	
		Flex/Macro Macro 1	128	128	50%	50%	80h	80h	
		...							
		Flex/Macro Macro 63	190	190	75%	75%	BEh	BEh	
		Reserved (see note 3 on page 11)	191	255	75%	100%	BFh	FFh	
20	Flex/Macro Speed	Reverse Play Speed Fast to x1	0	62	0%	24%	00h	3Eh	192
		Reverse Play Speed x1	63		25%	0%	3Fh	00h	
		Reverse Play speed x1 to Slow	64	126	25%	49%	40h	7Eh	
		Stop	127	128	50%	50%	7Fh	80h	
		Forward Play Speed Slow to x1	129	191	51%	75%	81h	BFh	
		Forward Play Speed x1	192		75%	0%	C0h	00h	
		Forward Play Speed x1 to Fast	193	255	76%	100%	C1h	FFh	
21	Flex/Macro Crossfade	Off	0	0	0%	0%	00h	00h	0
		5 s – 0.15 s (see note 4 on page 11)	1	255	0%	100%	01h	FFh	
22	Flex/Macro nShot (see note 13 on page 12)	Off	0	0	0%	0%	00h	00h	255
		1 Shot	1	9	0%	4%	01h	09h	
		2 Shot	10	19	4%	7%	0Ah	13h	
		3 Shot	20	29	8%	11%	14h	1Dh	
		4 Shot	30	39	12%	15%	1Eh	27h	
		5 Shot	40	49	16%	19%	28h	31h	
		Reserved (see note 3 on page 11)	50	254	20%	100%	32h	FEh	
		Continuous Run	255	255	100%	100%	FFh	FFh	
23	mSpeed	Off	0	3	0%	1%	00h	03h	0
		Slow to Fast	4	255	2%	100%	04h	FFh	
24	Fan Speed Control (see note 2 on page 11)	Idle	0	9	0%	4%	00h	09h	0
		Slow to Fast	10	215	4%	84%	0Ah	D7h	
		Auto	216	225	85%	88%	D8h	E1h	
		Studio	226	235	89%	92%	E2h	EBh	
		Reserved (see note 3 on page 11)	236	255	93%	100%	ECh	FFh	

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Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
25	Control	The Control channel should not be crossfaded. No shutter channel requirement.							0
		Safe (Normal Operation)	0	9	0%	4%	00h	09h	
		Reserved (see note 3 on page 11)	10	19	4%	7%	0Ah	13h	
		Display Off (3 s)	20	29	8%	11%	14h	1Dh	
		Display On (3 s)	30	39	12%	15%	1Eh	27h	
		Reserved (see note 3 on page 11)	40	49	16%	19%	28h	31h	
		Home All (3 s)	50	59	20%	23%	32h	3Bh	
		Shutdown (9 s) (see note 5 on page 11)	60	69	24%	27%	3Ch	45h	
		Red Shift Off (3 s)	70	79	27%	31%	46h	4Fh	
		Red Shift On (3 s)	80	89	31%	35%	50h	59h	
		LED PWM 2.4 kHz (3 s)	90	99	35%	39%	5Ah	63h	
		LED PWM 16 kHz (3 s)	100	109	39%	43%	64h	6Dh	
		LED PWM 25 kHz (3 s)	110	119	43%	47%	6Eh	77h	
		Independent Base Intensity (3 s) (see note 15 on page 12)	120	129	47%	51%	78h	81h	
		Master Base Intensity (3 s) (see note 15 on page 12)	130	139	51%	55%	82h	8Bh	
		Color Quadratic (see note 16 on page 12)	140	149	55%	58%	8Ch	95h	
		Color Linear (see note 16 on page 12)	150	159	59%	62%	96h	9Fh	
		Reserved (see note 3 on page 11)	160	255	63%	100%	A0h	FFh	

When you use Base+Flex/Macro mode, add these channels to the Base Module

(See note [17 on page 12](#) for information about the Controller Defaults.)

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
26	Flex/Macro 1 Red	Off to Full	0	255	0%	100%	00h	FFh	255
27	Flex/Macro 1 Green	Off to Full	0	255	0%	100%	00h	FFh	0
28	Flex/Macro 1 Blue	Off to Full	0	255	0%	100%	00h	FFh	
29	Flex/Macro 1 Lime	Off to Full	0	255	0%	100%	00h	FFh	
30	Flex/Macro 2 Red	Off to Full	0	255	0%	100%	00h	FFh	
31	Flex/Macro 2 Green	Off to Full	0	255	0%	100%	00h	FFh	255
32	Flex/Macro 2 Blue	Off to Full	0	255	0%	100%	00h	FFh	0
33	Flex/Macro 2 Lime	Off to Full	0	255	0%	100%	00h	FFh	
34	Flex/Macro 3 Red	Off to Full	0	255	0%	100%	00h	FFh	
35	Flex/Macro 3 Green	Off to Full	0	255	0%	100%	00h	FFh	
36	Flex/Macro 3 Blue	Off to Full	0	255	0%	100%	00h	FFh	255
37	Flex/Macro 3 Lime	Off to Full	0	255	0%	100%	00h	FFh	0
38	Flex/Macro 4 Red	Off to Full	0	255	0%	100%	00h	FFh	255
39	Flex/Macro 4 Green	Off to Full	0	255	0%	100%	00h	FFh	
40	Flex/Macro 4 Blue	Off to Full	0	255	0%	100%	00h	FFh	0
41	Flex/Macro 4 Lime	Off to Full	0	255	0%	100%	00h	FFh	
42	Flex/Macro 5 Red	Off to Full	0	255	0%	100%	00h	FFh	255
43	Flex/Macro 5 Green	Off to Full	0	255	0%	100%	00h	FFh	0
44	Flex/Macro 5 Blue	Off to Full	0	255	0%	100%	00h	FFh	255
45	Flex/Macro 5 Lime	Off to Full	0	255	0%	100%	00h	FFh	0

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Pixel Module

See note [11 on page 11](#) for details about pixel definition.

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1	Pixel 1 - Red	Off to full	0	255	0%	100%	00h	FFh	0
2	Pixel 1 - Green	Off to full	0	255	0%	100%	00h	FFh	
3	Pixel 1 - Blue	Off to full	0	255	0%	100%	00h	FFh	
4	Pixel 1 - Lime	Off to full	0	255	0%	100%	00h	FFh	
5	Pixel 2 - Red	Off to full	0	255	0%	100%	00h	FFh	
6	Pixel 2 - Green	Off to full	0	255	0%	100%	00h	FFh	
7	Pixel 2 - Blue	Off to full	0	255	0%	100%	00h	FFh	
8	Pixel 2 - Lime	Off to full	0	255	0%	100%	00h	FFh	
9	Pixel 3 - Red	Off to full	0	255	0%	100%	00h	FFh	
10	Pixel 3 - Green	Off to full	0	255	0%	100%	00h	FFh	
11	Pixel 3 - Blue	Off to full	0	255	0%	100%	00h	FFh	
12	Pixel 3 - Lime	Off to full	0	255	0%	100%	00h	FFh	
13	Pixel 4 - Red	Off to full	0	255	0%	100%	00h	FFh	
14	Pixel 4 - Green	Off to full	0	255	0%	100%	00h	FFh	
15	Pixel 4 - Blue	Off to full	0	255	0%	100%	00h	FFh	
16	Pixel 4 - Lime	Off to full	0	255	0%	100%	00h	FFh	
17	Pixel 5 - Red	Off to full	0	255	0%	100%	00h	FFh	
18	Pixel 5 - Green	Off to full	0	255	0%	100%	00h	FFh	
19	Pixel 5 - Blue	Off to full	0	255	0%	100%	00h	FFh	
20	Pixel 5 - Lime	Off to full	0	255	0%	100%	00h	FFh	
21	Pixel 6 - Red	Off to full	0	255	0%	100%	00h	FFh	
22	Pixel 6 - Green	Off to full	0	255	0%	100%	00h	FFh	
23	Pixel 6 - Blue	Off to full	0	255	0%	100%	00h	FFh	
24	Pixel 6 - Lime	Off to full	0	255	0%	100%	00h	FFh	
25	Pixel 7 - Red	Off to full	0	255	0%	100%	00h	FFh	
26	Pixel 7 - Green	Off to full	0	255	0%	100%	00h	FFh	
27	Pixel 7 - Blue	Off to full	0	255	0%	100%	00h	FFh	
28	Pixel 7 - Lime	Off to full	0	255	0%	100%	00h	FFh	
29	Pixel 8 - Red	Off to full	0	255	0%	100%	00h	FFh	
30	Pixel 8 - Green	Off to full	0	255	0%	100%	00h	FFh	
31	Pixel 8 - Blue	Off to full	0	255	0%	100%	00h	FFh	
32	Pixel 8 - Lime	Off to full	0	255	0%	100%	00h	FFh	
33	Pixel 9 - Red	Off to full	0	255	0%	100%	00h	FFh	
34	Pixel 9 - Green	Off to full	0	255	0%	100%	00h	FFh	
35	Pixel 9 - Blue	Off to full	0	255	0%	100%	00h	FFh	
36	Pixel 9 - Lime	Off to full	0	255	0%	100%	00h	FFh	

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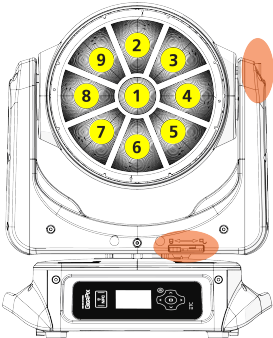
Wash

Channel	Function	Description	Decimal Low	Decimal High	Percent Low	Percent High	Hex Low	Hex High	Controller Defaults
1/2	Pan (Coarse/Fine)	See note 12 on page 12	0	65535	0%	100%	00h	FFFFh	32767
3/4	Tilt (Coarse/Fine)	See note 12 on page 12	0	65535	0%	100%	00h	FFFFh	32767
5	Red	Red Off to On	0	255	0%	100%	00h	FFh	255
6	Green	Green Off to On	0	255	0%	100%	00h	FFh	255
7	Blue	Blue Off to On	0	255	0%	100%	00h	FFh	255
8	Lime	Lime Off to On	0	255	0%	100%	00h	FFh	255
9	Color Correction (see note 14 on page 12)	Off	0	0	0%	0%	00h	00h	0
		Warm to Cool	1	255	0%	100%	01h	FFh	
10	Zoom	Narrow to Wide	0	65535	0%	100%	00h	FFFFh	65535
11	Shutter/ LED Functions	Off	0	15	0%	6%	00h	0Fh	0
		Synchronous	16	31	6%	12%	10h	1Fh	
		Random	32	47	13%	18%	20h	2Fh	
		Random Pixel	48	63	19%	25%	30h	3Fh	
		Random Pixel/Color	64	79	25%	31%	40h	4Fh	
		Synchronous Random	80	95	31%	37%	50h	5Fh	
		Reserved (see note 3 on page 11)	96	255	38%	100%	60h	FFh	
12	Shutter	Close	0	23	0%	9%	00h	17h	255
		Strobe Rate (Slow to Fast)	24	229	9%	90%	18h	E5h	
		Open	230	255	90%	100%	E6h	FFh	
13/14	Dimmer (Coarse/Fine)	Off to Full	0	65535	0%	100%	00h	FFFFh	65535
15	Control	The Control channel should not be crossfaded. No shutter channel requirement.							0
		Safe (Normal Operation)	0	9	0%	4%	00h	09h	
		Reserved (see note 3 on page 11)	10	19	4%	7%	0Ah	13h	
		Display Off (3 s)	20	29	8%	11%	14h	1Dh	
		Display On (3 s)	30	39	12%	15%	1Eh	27h	
		Reserved (see note 3 on page 11)	40	49	16%	19%	28h	31h	
		Home All (3 s)	50	59	20%	23%	32h	3Bh	
		Shutdown (9 s) (see note 5 on page 11)	60	69	24%	27%	3Ch	45h	
		Red Shift Off (3 s)	70	79	27%	31%	46h	4Fh	
		Red Shift On (3 s)	80	89	31%	35%	50h	59h	
		LED PWM 2.4 kHz (3 s)	90	99	35%	39%	5Ah	63h	
		LED PWM 16 kHz (3 s)	100	109	39%	43%	64h	6Dh	
		LED PWM 25 kHz (3 s)	110	119	43%	47%	6Eh	77h	
		Color Quadratic (see note 16 on page 12)	120	129	47%	51%	78h	81h	
		Color Linear (see note 16 on page 12)	130	139	51%	55%	82h	8Bh	
		Reserved (see note 3 on page 11)	140	255	55%	100%	8Ch	FFh	

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Notes

1	Output Control • Base – output is controlled by the Base Module RGBL + Color Correction • Macro – output is controlled by the Flex/Macro Module • Pixel – output is controlled by the Pixel Module								
2	Fan Speed Control • Base Module - "Idle" and "Slow to Fast" modes may be crossfaded, or values may be directly entered with immediate effect. - "Auto" and "Studio" modes are entered by starting at "Idle" and directly entering the range you want to use. After a short pause, the mode is activated. - "Auto" and "Studio" modes are retained upon loss of power. - "Slow to Fast" mode is not retained upon loss of power and is only active while the fixture is receiving a DMX value in this range. • Wash Protocol - "Auto" and "Studio" modes are retained upon loss of power.								
3	Reserved ranges should function according to the controller default value.								
4	There are predefined Inclusive, Static, and Flex/Macro macros. The macros require the Flex/Macro Speed and Flex/Macro Crossfade channels. • The Inclusive macros (macros 1–76) are all-inclusive and include color, background, strobe, and timing data. They do not include pan, pan mode, tilt, mix color function, zoom, or fan control data. • The Static macros (macros 77–117) include color and background. • The Flex/Macro macros (macros 128–190) do not include color or timing data. Playback Speed Operation <table> <tr> <th>Channel</th><th>Description</th></tr> <tr> <td>0–126</td><td>Reverse playback fast to slow</td></tr> <tr> <td>127–128</td><td>Stop playback</td></tr> <tr> <td>129–255</td><td>Forward playback slow to fast</td></tr> </table> Crossfade Operation Crossfade time controls the speed at which a macro fades from one step of the effect to the next step. Lower speeds mean a slower transition; higher speeds approach a zero-second transition.	Channel	Description	0–126	Reverse playback fast to slow	127–128	Stop playback	129–255	Forward playback slow to fast
Channel	Description								
0–126	Reverse playback fast to slow								
127–128	Stop playback								
129–255	Forward playback slow to fast								
5	The Shutdown command moves the zoom position to wide (DMX 0) prior to shutting down the fixture.								
6	Dim Tracking mode tracks the primary Dimmer channel. When the primary Dimmer channel is at 0, the background color will turn off.								
7	Background color is always on when enabled. The minimum intensity remains during macros and channel operation. The DMX number describes the intensity of the specified color.								
8	Lime background color uses only the lime LEDs, not RGBL.								
9	White background color uses RGBL LEDs.								
10	Independent Dim Mode does not track with the primary Dimmer channel. When the primary Dimmer channel is at 0, the selected color remains on.								
11	Pixel Layout (Note how the fixture head is oriented in relation to the tilt and pan locks; pan at 127, tilt at 40) 								

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12	Pan Movement Range: 540°. Tilt Movement Range: 264°. DMX Fixture Orientation (Pan and tilt lock locations are highlighted in orange) Tilt = 255 DMX Pan = 127 DMX Tilt = 127 DMX Pan = 127 DMX Tilt = 0 DMX Pan = 127 DMX Pan = 0 DMX Tilt = 40 DMX Pan = 127 DMX Tilt = 40 DMX Pan = 255 DMX Tilt = 40 DMX
13	Macro nShot causes macros to fire 'n' number of times. The macro runs 'n' number of times through all programmed steps. Zero turns macros off. 255 runs macros continuously. The nShot value must change to re-trigger. If the change in nShot value is to zero, nShot will reset and the selected macro will not run until the nShot value changes to a trigger value. If the change in nShot value is to 255, the selected macro will then run continuously.
14	The color temperature range is approximately 2,000 K–10,000 K. This range is provided for reference only.
15	Independent Dim mode does not track with the primary Dimmer channel. When the primary Dimmer channel is at 0, the pixel layer color remains on. In dimmer tracking mode, the pixel layer intensity tracks with the primary Dimmer channel.
16	Upon loss of power, the fixture retains the selected setting.
17	Controller defaults are not uniform. This ensures that when flex macros are run, color changes are immediately noticeable and the flex macros can be edited after they are run.
18	RDM Manufacturer ID: 0x4c52
19	RDM Device IDs: • Base Module: 0x2f0e • Pixel Module: 0x2f10* • Wash: 0x2f11 *This ID is used when the Pixel module is in Independent mode on a separate controller.

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Revision History

Revision	Change	Release Date
A	Initial release.	October 2025