

Omnibar

DMX Protocol Specification

TECHNICAL INFORMATION

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Imprint

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Initial Language

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Product Information Resources

The ARRI documentation portal provides important documents on the product for free download.

Please use the following search keys in the search bar to retrieve the documents for the product:

Omnibar, L1.0052542, L1.0052543, L1.0052544, L1.0052545

Omnibase, L2.0052531

[ARRI documentation portal](#)



For more information about the product, please refer to the ARRI website at:

[ARRI Omnibar product page](#)



1 DMX Mode List

CCT & RGB DMX Modes

Resolution	1 Zone		2 Zones		4 Zones		8 Zones		16 Zones		32 Zones	
	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels

CCT & RGB (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	1	9	3	16	5	30	7	58	9	114	11	226
16 bit	2	14	4	26	6	50	8	98	10	194	12	386

CCT & RGBW DMX Modes

CCT & RGBW (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	13	10	15	18	17	34	19	66	21	130	23	258
16 bit	14	16	16	30	18	58	20	114	22	226	24	450

CCT & HSI DMX Modes

CCT & HSI (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	25	8	27	14	29	26	31	50	33	98	35	194
16 bit	26	12	28	22	30	42	32	82	34	162	36	322

CCT & XY DMX Modes

CCT & XY (Color Channels & Light Strobe Channel & Control Channel)												
16 bit	37	12	38	22	39	42	40	82	41	162	42	322

CCT DMX Modes

CCT (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	43	5	45	8	47	14	49	26	51	50	53	98
16 bit	44	7	46	12	48	22	50	42	52	82	54	162

HSI DMX Modes

Resolution	1 Zone		2 Zones		4 Zones		8 Zones		16 Zones		32 Zones	
	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels

HSI (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	55	5	57	8	59	14	61	26	63	50	65	98
16 bit	56	8	58	14	60	26	62	50	64	98	66	194

XY DMX Modes

XY (Color Channels & Light Strobe Channel & Control Channel)												
16 bit	67	8	68	14	69	26	70	50	71	98	72	194

RGB DMX Modes

RGB (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	73	6	75	9	77	15	79	27	81	51	83	99
16 bit	74	10	76	16	78	28	80	52	82	100	84	196

RGBW DMX Modes

RGBW (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	85	7	87	11	89	19	91	35	93	67	95	131
16 bit	86	12	88	20	90	36	92	68	94	132	96	260

WP RGB DMX Modes

WP RGB (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	97	8	99	11	101	17	103	29	105	53	107	101
16 bit	98	13	100	19	102	31	104	55	106	103	108	199

WP RGBW DMX Modes

WP RGBW (Color Channels & Light Strobe Channel & Control Channel)												
8 bit	109	9	111	13	113	21	115	37	117	69	119	133
16 bit	110	15	112	23	114	39	116	71	118	135	120	263

RGB DMX Modes

Resolution	1 Zone		2 Zones		4 Zones		8 Zones		16 Zones		32 Zones	
	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels	Mode	Channels

RGB (Color Channels)												
8 bit	121	3	123	6	125	12	127	24	129	48	131	96
16 bit	122	6	124	12	126	24	128	48	130	96	132	192

RGBW DMX Modes

RGBW (Color Channels)												
8 bit	133	4	135	8	137	16	139	32	141	64	143	128
16 bit	134	8	136	16	138	32	140	64	142	128	144	256

WP RGB DMX Modes

WP RGB (Color Channels)												
8 bit	145	5	147	8	149	14	151	26	153	50	155	98
16 bit	146	9	148	15	150	27	152	51	154	99	156	195

RGB DMX Modes

WP RGBW (Color Channels)												
8 bit	157	6	159	10	161	18	163	34	165	66	167	130
16 bit	158	11	160	19	162	35	164	67	166	131	168	259

**NOTICE**

The Omnibar 2 has 16 Zones (in 32 Zone Modes the Zones 17 - 32 are not available, 'v' is added to mode name [v32 Zones ...])

Channel Scheme

DMX Channel No. 8 bit	DMX Channel No. 16 bit	Description
n	n	Depends on selected DMX Mode
n+1	n+1	Light Strobe Channel (8 bit)
n+2	n+2	Control Channel (8 bit)

n = Highest channel number of selected mode

2 Strobe and Control Channel

DMX Strobe Channel

DMX Channel	Value	Percent	Function
Depending on DMX Mode	0 – 19	0 – 7	Light Strobe Rate No effect
	20 - 255	8 - 100	1 flash / second → 25 flashes / second

DMX Control Channel

DMX Channel	Value	Percent	Function
Depending on DMX Mode	0 – 19	0 - 7	Control Channel
	20		Reserved (No Function)
	21		Fixture Reset (<i>except DMX mode, DMX address, CRMX switch, CRMX link, BLE mesh (incl. system pin)</i>)
	22		Unlink CRMX
	23		Exponential Dimming Curve
	24		Logarithmic Dimming Curve
	25		Linear Dimming Curve
	26		“S” Curve Dimming Curve
	27		DMX Transition Type Direct
	28		DMX Transition Type Through Black
	29		DMX Transition Type Through White
	30		DMX Loss Behavior Hold Last
	31		DMX Loss Behavior Blackout
	32		DMX Loss Behavior Hold 2 Min
	33		DMX Loss Behavior Emergency
	34		Battery Runtime – Standard
	35		Battery Runtime – 3 h
	36		Battery Runtime – 5 h
	37		Battery Runtime – 7 h
	38		Battery Runtime – 9 h
	39		Battery Runtime – 12 h
	40		Battery Runtime – 15 h
	41		Boost OFF
	42		Boost ON
	43		Display Backlight ON
	44		Display Backlight OFF After 10s
	45		Display Orientation Auto
	46		Display Orientation Normal
	47		Display Orientation Upside Down
	48		AC Failure: No Action
	49		AC Failure: Blackout
	50		AC Failure: Emergency Light
			AC Failure: Standby

DMX Control Channel (continued)

DMX Cannel	Value	Percent	Function
Depending on DMX Mode	51		Control Channel Overheat: Lower Intensity
	52		Overheat: Blackout
	53		Flip 180° OFF
	54		Flip 180° ON
	55		Dimmer Smoothing OFF
	56		Dimmer Smoothing Fast
	57		Dimmer Smoothing Standard
	58		Dimmer Smoothing Smoother
	59		Dimmer Smoothing Smoothest
	60		Force Smoothing OFF
	61		Force Smoothing ON
	62 – 71		Reserved (No Function)
	72		RGB_PLASA_ANSI_E1.54_whitepoint_P32 (default gamma = 1.0)
	73		RGB_KodakProPhoto_whitepoint_D50 (default gamma = 1.8)
	74		RGB_sRGB_whitepoint_D65 (default gamma sRGB)
	75		RGB_Rec.709_whitepoint_D65 (default gamma = 2.4)
	76		RGB_sRGB/Rec.709_linear_whitepoint_D65 (default gamma = 1.0)
	77		RGB_DCI-P3_whitepoint_D63 (default gamma = 2.6)
	78		RGB_Rec.2020_whitepoint_D65 (default gamma = 2.4)
	79		RGB Gamma Default for selected color space
80 -99		RGB Gamma User Defined (1.0 - 2.9), each digit is a step of 0.1	
100 - 255		Reserved (No function)	

3 DMX Modes

3.1 Multi Zone DMX - CCT & RGB

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT <i>(Also used for RGB mode white point)</i> 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 – 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 – 100	Green / Magenta Point <i>(Also used for RGB mode white point)</i> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	6	0 – 255	0 – 65.535	0 – 100	Cross Fade to Color White → RGBW color
5	7/8	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
6	9/10	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
7	11/12	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 6]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.2 Multi Zone DMX - CCT & RGBW

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT <i>(Also used for RGB mode white point)</i> 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 – 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 – 100	Green / Magenta Point <i>(Also used for RGB mode white point)</i> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	6	0 – 255	0 – 65.535	0 – 100	Cross Fade to Color White → RGBW color
5	7/8	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
6	9/10	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
7	11/12	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
8	13/14	0 – 255	0 – 65.535	0 – 100	Intensity white 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 6]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.3 Multi Zone DMX - CCT & HSI

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT <i>(Also used for HSI mode white point)</i> 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 – 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 – 100	Green / Magenta Point <i>(Also used for HSI mode white point)</i> neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	6	0 – 255	0 – 65.535	0 – 100	Cross Fade to Color White → HSI color
5	7/8	0 – 255	0 – 65.535	0 – 100	Hue White → HSI Color
6	9/10	0 – 255	0 – 65.535	0 – 100	Sat 0% → full saturated
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 6]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.4 Multi Zone DMX - CCT & XY

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 – 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 – 100	Green / Magenta Point neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
4	6	0 – 255	0 – 65.535	0 – 100	Cross Fade to Color White → XY color
5	7/8	0 – 255	0 – 65.535	0 – 100	X Coordinate 0.0 → 0.8
6	9/10	0 – 255	0 – 65.535	0 – 100	Y Coordinate 0.0 → 0.8
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 6]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.5 Multi Zone DMX - CCT

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 – 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 – 100	Green / Magenta Point neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 6]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.6 Multi Zone DMX - HSI

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Hue White → HSI Color
3	5/6	0 – 255	0 – 65.535	0 – 100	Sat 0% → full saturated
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 7]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.7 Multi Zone DMX - XY

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
	1/2		0 – 65.535	0 – 100	Master Dimmer closed → open
	3/4		0 – 65.535	0 – 100	X Coordinate 0.0 → 0.8
	5/6		0 – 65.535	0 – 100	Y Coordinate 0.0 → 0.8
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 7]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.8 Multi Zone DMX - RGB SC

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
3	5/6	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
4	7/8	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 7]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.9 Multi Zone DMX - RGBW SC

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
3	5/6	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
4	7/8	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
5	9/10	0 – 255	0 – 65.535	0 – 100	Intensity white 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 7]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.10 Multi Zone DMX - WP RGB SC

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 - 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 - 100	Green / Magenta Point neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
Zone 1					
4	6/7	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
5	8/9	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
6	10/11	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 7]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.11 Multi Zone DMX - WP RGBW SC

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
1	1/2	0 – 255	0 – 65.535	0 – 100	Master Dimmer closed → open
2	3/4	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT 1.700 K → 20.000 K
3	5	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 - 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 - 100	Green / Magenta Point neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
Zone 1					
4	6/7	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
5	8/9	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
6	10/11	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
7	12/13	0 – 255	0 – 65.535	0 – 100	Intensity white 0% → 100%

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 7]"					
n+1		0 – 255	0 – 255	0 – 100	Light Strobe
n+2		0 – 255	0 – 255	0 – 100	Control Channel

3.12 Multi Zone DMX RGB

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
2	3/4	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
3	5/6	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 8]"					

3.13 Multi Zone DMX - RGBW

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
Zone 1					
1	1/2	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
2	3/4	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
3	5/6	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
4	7/8	0 – 255	0 – 65.535	0 – 100	Intensity white 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 8]"					

3.14 Multi Zone DMX - WP RGB

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
1	1/2	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT 1.700 K → 20.000 K
2	3	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 - 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 - 100	Green / Magenta Point neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
Zone 1					
3	4/5	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
4	6/7	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
5	8/9	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 8]"					

3.15 Multi Zone DMX - WP RGBW

DMX Channel		Value		Percent	Function
8 bit	16 bit	8 bit	16 bit		
1	1/2	0 – 255	0 – 65.535	0 – 100	Color Temperature CCT 1.700 K → 20.000 K
2	3	0 – 10 11 – 20 21 – 119 120 – 145 146 – 244 245 - 255		0 – 4 5 – 8 9 – 47 48 – 57 58 – 96 97 - 100	Green / Magenta Point neutral / no effect full minus green –99% → –1% neutral / no effect 1% → 99% full plus green
Zone 1					
3	4/5	0 – 255	0 – 65.535	0 – 100	Intensity red 0% → 100%
4	6/7	0 – 255	0 – 65.535	0 – 100	Intensity green 0% → 100%
5	8/9	0 – 255	0 – 65.535	0 – 100	Intensity blue 0% → 100%
6	10/11	0 – 255	0 – 65.535	0 – 100	Intensity white 0% → 100%
Zone 2...32 identically. Channel count see "DMX Mode List [▶ 8]"					

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