

JOLT PANEL FX



USER MANUAL

KEEP THIS USER MANUAL FOR FUTURE NEEDS

FEATURES

The Jolt Panel FX is an extremely versatile fixture ideal for concert tours, one-off event production and permanent nightclub installations. It features a central strip of 48 x 5-Watt cool white SMD LEDs, surrounded on both sides by a total of 800 x 0.3W RGB SMD LEDs. This provides lighting designers with the creative potential of generating both strikingly bright white strobe effects and vibrant color washes from the same compact fixture.

- Compact size, light weight construction
- Two types of LEDs: 48 x cool white LED in the center, and 800 x 5050 RGB components in the outer portion of the display
- 40 x LED zones and 6 x strobe tube zones with individual control capability
- Smooth dimming and color mixing
- Ultra-high stunning output with multiple strobe speeds

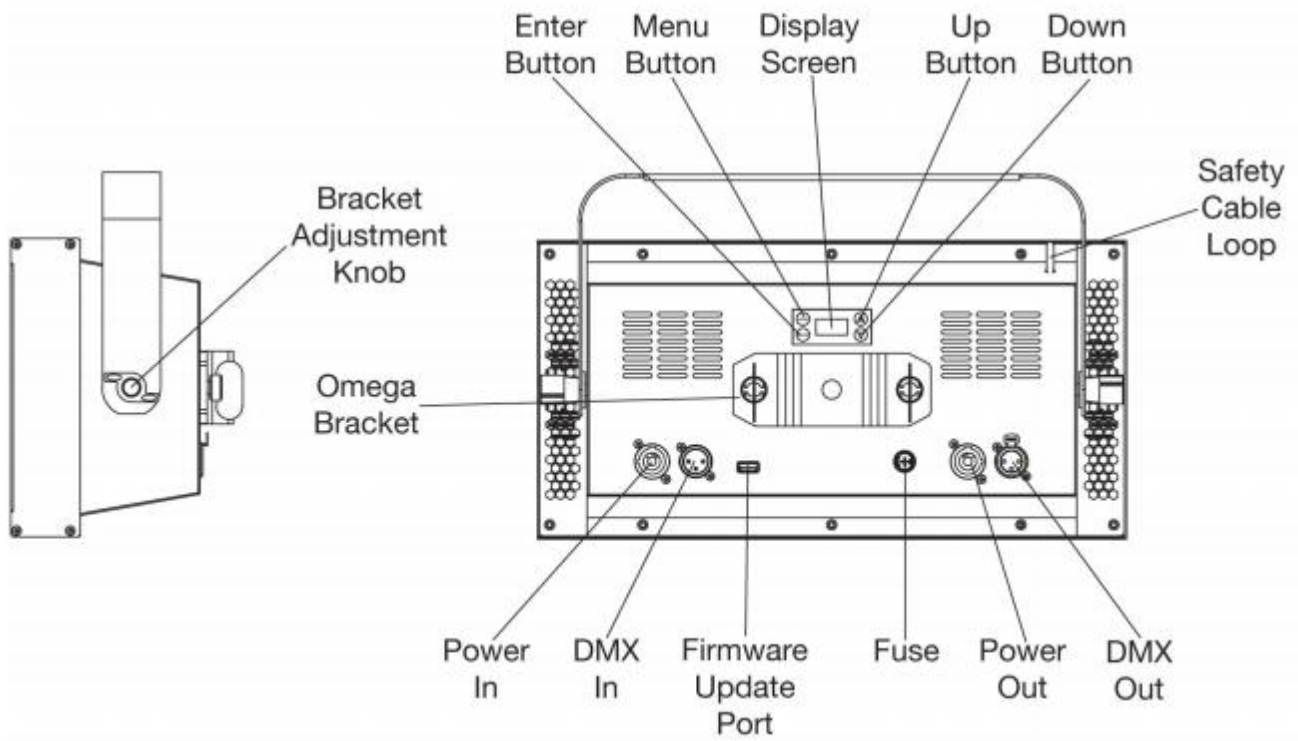
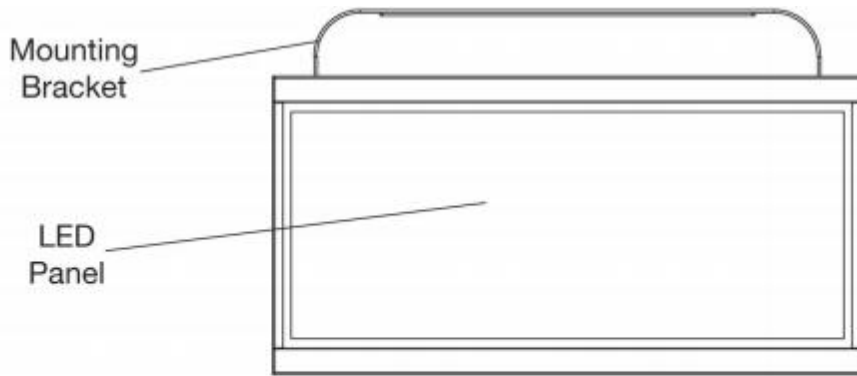
INCLUDED ITEMS:

- 1 x Locking power cable
- 1 x Omega bracket
- 1 x Single yoke

IP RATING

This device is IP20 rated. This means that the unit is protected against the intrusions of solids approximately the size of an adult finger (2.5mm) or larger, but the unit is not protected against water or liquid intrusion of any kind.

OVERVIEW



INSTALLATION



FLAMMABLE MATERIAL WARNING

Keep fixture minimum 5.0 feet (1.5m) away from flammable materials and/or pyrotechnics.



ELECTRICAL CONNECTIONS

A qualified electrician should be used for all electrical connections and/or installations.



MINIMUM DISTANCE TO OBJECTS/SURFACES IS 6.6 FEET (2 METERS).
MINIMUM DISTANCE OF INFLAMMABLE MATERIALS FROM THE SURFACE IS 1.6 FEET (0.5 METER)

DO NOT INSTALL THE FIXTURE IF YOU ARE NOT QUALIFIED TO DO SO!

- Fixture **MUST** be installed following all local, national, and country commercial electrical and construction codes and regulations.
- Before rigging/mounting a single fixture or multiple fixtures to any metal truss/structure or placing the fixture(s) on any surface, a professional equipment installer **MUST** be consulted to determine if the metal truss/structure or surface is properly certified to safely hold the combined weight of the fixture(s), clamps, cables, and accessories.
- Maximum ambient operating temperature is 113°F (45°C). Do not use fixture when ambient temperature exceeds this value.
- Fixture(s) should be installed outside walking paths, seating areas, or areas where unauthorized personnel might reach the fixture by hand.
- **NEVER** stand directly below the fixture(s) when rigging, removing, or servicing.
- Overhead fixture installation must always be secured with a secondary safety attachment, such as an appropriately rated safety cable.
- Allow approximately 60 minutes for the fixture to cool down before servicing.

IP RATING

This device is IP20 rated. This means that the unit is protected against the intrusion of solids 2.5mm in size or larger (approximately the size of an adult finger tip). The unit is **NOT** protected against water or liquid intrusion of any kind!

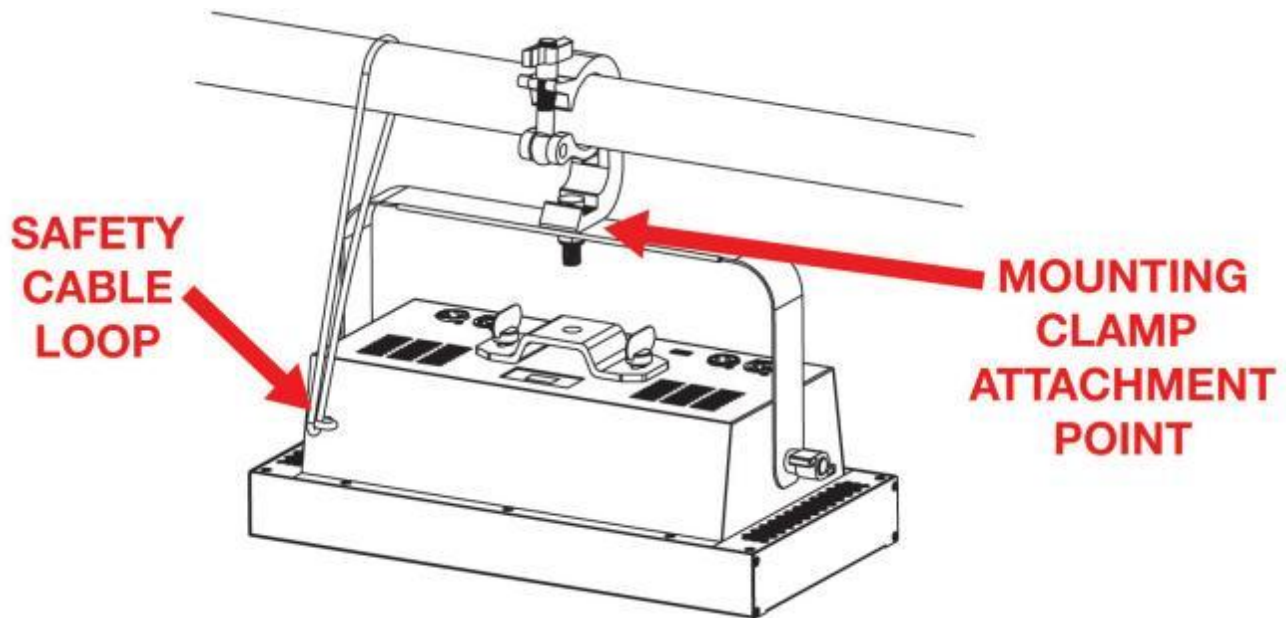
RIGGING

Overhead rigging requires extensive experience, including calculating working load limits, knowledge of installation material being used, and periodic safety inspection of all installation material and the fixture, among other skills. **If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.**

INSTALLATION

CLAMP INSTALLATION

This fixture features a mounting point on the yoke for the attachment of a mounting clamp. There is also a safety cable loop located on the rear of the fixture (see the illustration below). When mounting the fixture to a truss or any other suspended or overhead installation, be sure to secure appropriately rated clamps (not included) to the yoke, and attach a separate SAFETY CABLE of the appropriate weight rating to the safety cable loop.

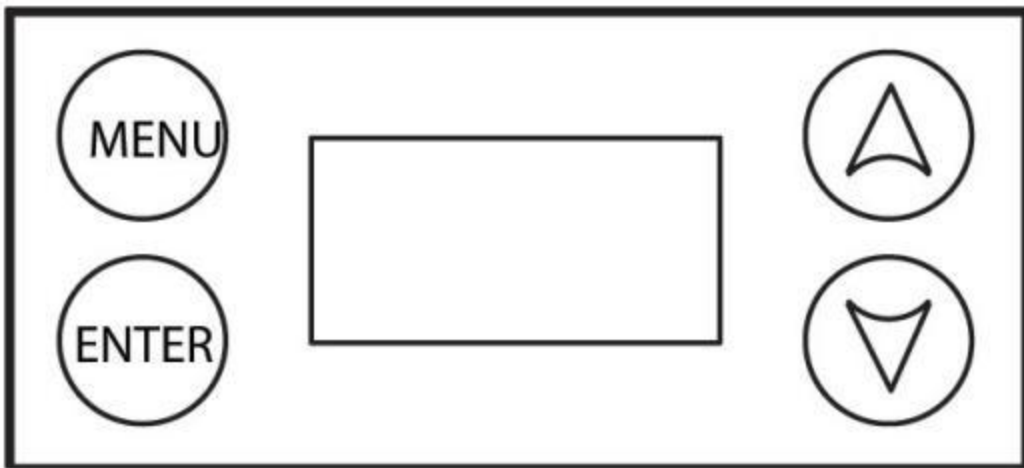


SAFETY CABLE:
ALWAYS ATTACH A SAFETY CABLE WHENEVER INSTALLING THIS FIXTURE IN A SUSPENDED ENVIRONMENT TO ENSURE THAT THE FIXTURE WILL NOT FALL IF THE CLAMP FAILS.

CONTROL PANEL

The fixture includes an easy to navigate system menu control panel display where all necessary settings and adjustments are made. (See image below)

- MENU: Leave current menu and return to previous menu level.
- UP: Scroll up in currently displayed menu.
- DOWN: Scroll down in currently displayed menu.
- ENTER: Select an option or confirm a selection.



This fixture includes a display lock feature which automatically shuts off the display screen after a certain period of inactivity. This feature is OFF by default, which means that the display will always remain on regardless of inactivity, but can be configured to kick in after up to 10 minutes of inactivity. See the **System Menu** section of this manual for details on how to configure this setting.

SYSTEM MENU

DMX SETTINGS	DMX Address	1 - 507 (6ch)			
		1 - 504 (9ch)			
		1 - 500 (13ch)			
		1 - 495 (18ch)			
		1 - 477 (36ch)			
		1 - 472 (41ch)			
		1 - 387 (126ch)			
		1 - 372 (141ch)			
	DMX Channel Mode	6CH			
		9CH			
		13CH			
		18CH			
		36CH			
		41CH			
		126CH			
		141CH			
	No DMX Status	Blackout		Takes all traits to 0 when DMX signal is lost or interrupted.	
		Hold		Holds all traits at last received value when DMX signal is lost or interrupted.	
		Manual		Defaults to values set in Manual Mode when DMX signal is lost or interrupted.	
	PERSONALITY	Dim Modes	Standard		
			Stage		
TV					
Architectural					
Theatre					
Stage 2					
Dimmer Curve		Linear			
		Square			
		Inv. Sq.			
		S-Curve			
Display		Display Backlight	Off - 2 min		
		Display Lock	Off - 10 min		
		Display Invert	No / Yes		
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SYSTEM MENU

PERSONALITY (continued)	Temperature Unit	°C / °F			
	Fan Speed	Low			
		High			
		Auto			
	Service (Passcode = 011)	White Balance	Red1 (000 - 255)		
			Green1 (000 - 255)		
			Blue1 (000 - 255)		
			Red2 (000 - 255)		
			Green2 (000 - 255)		
			Blue2 (000 - 255)		
		...			
		USB Port Power	ON / OFF		
	Update Software	Yes / No			
Factory Restore	Yes / No				
MANUAL	Outer Red	000 - 255		Note: Manual control settings shall always hold when no DMX signal is detected.	
	Outer Green	000 - 255			
	Outer Blue	000 - 255			
	Inner White	000 - 255			
	Dimmer	000 - 255			
	Dimmer Fine	000 - 255			
	Strobe Effect	000 - 255			
	Strobe Rate	000 - 255			
	Strobe Duration	000 - 255			
FIXTURE TEST	Auto Test				
FIXTURE INFORMATION	Fixture Use Hour				
	LED Use Hour	Total LED Hour			
		LED On Hour			
		LED Hours Reset			
	Temperature				
	Fan State				
	RDM UID	xxxxxx			
	Error Logs	Fixture Errors	LED Fan Error		
			Temperature Error		
		Reset Error Log (Passcode = 011)	No / Yes		
Firmware Version	x.xx				

DMX SETUP

DMX ADDRESSING

All fixtures should be given a DMX starting address when operating with a DMX controller, in order to ensure that the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control signal sent out from the DMX controller. The assignment of this starting DMX address is achieved by setting the correct DMX address on the digital control display on the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different addresses for each individual fixture. Setting all fixtures to the same DMX address will cause all fixtures to react in the same way. In this case, please note that changing the settings of one channel will affect all the fixtures simultaneously.

If you set each fixture to a different DMX address, each unit will “listen” starting at the channel number you have set, based on the quantity of DMX channels of each fixture. That means changing the settings of one channel will only affect the selected fixture.

As an example, when operating this device in 6 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 7 (1 + 6), the third unit to 13 (1 + 6 + 6), and so on. (See the chart below for more details.)

Channel Mode	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
6 Channels	1	7	13	19
9 Channels	1	10	19	28
13 Channels	1	14	27	40
18 Channels	1	19	37	55
36 Channels	1	37	73	109
41 Channels	1	42	83	124
126 Channels	1	127	253	379
141 Channels	1	142	283	424

DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
1	1	1	1					000 - 255	<i>Outer Red</i> , 0% to 100%
2	2	2	2					000 - 255	<i>Outer Green</i> , 0% to 100%
3	3	3	3					000 - 255	<i>Outer Blue</i> , 0% to 100%
4	4	4						000 - 255	<i>Inner White</i> , 0% to 100%
				30	33			000 - 255	<i>Inner White Group 1</i>
				31	34			000 - 255	<i>Inner White Group 2</i>
5	5	6						000 - 255	<i>Dimmer</i> , 0% to 100%
6	6	7						000 - 255	<i>Dimmer Fine</i> , 0% to 100%
			5	25	26		122	000 - 255	<i>Outer Dimmer</i> , 0% to 100%
			6	26	27		123	000 - 255	<i>Outer Dimmer Fine</i> , 0% to 100%
									<i>Strobe Effect</i>
								000 - 002	Open
								003 - 005	Strobe
								006 - 050	Ramp up
								051 - 100	Ramp down
								101 - 150	Ramp up- down
								151 - 200	Lightning
								201 - 255	Random
	8	9						000 - 255	<i>Strobe Rate</i> , slow to fast
	9	10						000 - 255	<i>Strobe Duration</i> , slow to fast
		5	4		25		121	000 - 255	<i>Outer Color Macros</i>
									<i>Outer Strobe Effect</i>
								000 - 002	Open
								003 - 005	Strobe
								006 - 050	Ramp up
								051 - 100	Ramp down
								101 - 150	Ramp up- down
								151 - 200	Lightning
								201 - 255	Random
			8	28	29		125	000 - 255	<i>Outer Strobe Rate</i> , slow to fast
			9	29	30		126	000 - 255	<i>Outer Strobe Duration</i> , slow to fast

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DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
									<i>Outer Program Macro</i>
								000 - 005	No function
								006 - 015	Macro1
								016 - 025	Macro2
								026 - 035	Macro3
								036 - 045	Macro4
								046 - 055	Macro5
								056 - 065	Macro6
								066 - 075	Macro7
								076 - 085	Macro8
								086 - 095	Macro9
								096 - 105	Macro10
								106 - 115	Macro11
		11	10		31		127	116 - 125	Macro12
								126 - 135	Macro13
								136 - 145	Macro14
								146 - 155	Macro15
								156 - 165	Macro16
								166 - 175	Macro17
								176 - 185	Macro18
								186 - 195	Macro19
								196 - 205	Macro20
								206 - 215	Macro21
								216 - 225	Macro22
								226 - 235	Macro23
								236 - 245	Macro24
								246 - 255	Macro25
			11		32		128	000 - 255	<i>Outer Program Macro Speed</i>
			12	32	35		135	000 - 255	<i>Inner Dimmer, 0% to 100%</i>
			13	33	36		136	000 - 255	<i>Inner Dimmer Fine, 0% to 100%</i>

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DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
									<i>Inner Strobe Effect</i>
								000 - 002	Open
								003 - 005	Strobe
			14	34	37			006 - 050	Ramp up
								051 - 100	Ramp down
								101 - 150	Ramp up- down
								151 - 200	Lightning
								201 - 255	Random
			15	35	38			138	<i>Inner Strobe Rate, slow to fast</i>
			16	36	39			139	<i>Inner Strobe Duration, slow to fast</i>
									<i>Inner Program Macro</i>
								000 - 005	No function
								006 - 033	Macro1
								034 - 060	Macro2
								061 - 088	Macro3
			12	17	40			089 - 116	Macro4
								117 - 144	Macro5
								145 - 172	Macro6
								173 - 200	Macro7
								201 - 228	Macro8
								229 - 255	Macro9
			18		41			141	<i>Inner Program Macro Speed</i>
		13							<i>In/ Out Program Macro Speed, slow to fast</i>
				1	1	1	1	000 - 255	<i>Red 1</i>
				2	2	2	2	000 - 255	<i>Green 1</i>
				3	3	3	3	000 - 255	<i>Blue 1</i>
				4	4	4	4	000 - 255	<i>Red 2</i>
				5	5	5	5	000 - 255	<i>Green 2</i>
				6	6	6	6	000 - 255	<i>Blue 2</i>
				7	7	7	7	000 - 255	<i>Red 3</i>
				8	8	8	8	000 - 255	<i>Green 3</i>
				9	9	9	9	000 - 255	<i>Blue 3</i>
				10	10	10	10	000 - 255	<i>Red 4</i>
				11	11	11	11	000 - 255	<i>Green 4</i>
				12	12	12	12	000 - 255	<i>Blue 4</i>

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DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
				13	13	13	13	000 - 255	<i>Red 5</i>
				14	14	14	14	000 - 255	<i>Green 5</i>
				15	15	15	15	000 - 255	<i>Blue 5</i>
				16	16	16	16	000 - 255	<i>Red 6</i>
				17	17	17	17	000 - 255	<i>Green 6</i>
				18	18	18	18	000 - 255	<i>Blue 6</i>
				19	19	19	19	000 - 255	<i>Red 7</i>
				20	20	20	20	000 - 255	<i>Green 7</i>
				21	21	21	21	000 - 255	<i>Blue 7</i>
				22	22	22	22	000 - 255	<i>Red 8</i>
				23	23	23	23	000 - 255	<i>Green 8</i>
				24	24	24	24	000 - 255	<i>Blue 8</i>
						25	25	000 - 255	<i>Red 9</i>
						26	26	000 - 255	<i>Green 9</i>
						27	27	000 - 255	<i>Blue 9</i>
						28	28	000 - 255	<i>Red 10</i>
						29	29	000 - 255	<i>Green 10</i>
						30	30	000 - 255	<i>Blue 10</i>
						31	31	000 - 255	<i>Red 11</i>
						32	32	000 - 255	<i>Green 11</i>
						33	33	000 - 255	<i>Blue 11</i>
						34	34	000 - 255	<i>Red 12</i>
						35	35	000 - 255	<i>Green 12</i>
						36	36	000 - 255	<i>Blue 12</i>
						37	37	000 - 255	<i>Red 13</i>
						38	38	000 - 255	<i>Green 13</i>
						39	39	000 - 255	<i>Blue 13</i>
						40	40	000 - 255	<i>Red 14</i>
						41	41	000 - 255	<i>Green 14</i>
						42	42	000 - 255	<i>Blue 14</i>
						43	43	000 - 255	<i>Red 15</i>
						44	44	000 - 255	<i>Green 15</i>
						45	45	000 - 255	<i>Blue 15</i>
						46	46	000 - 255	<i>Red 16</i>
						47	47	000 - 255	<i>Green 16</i>

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DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
						48	48	000 - 255	<i>Blue 16</i>
						49	49	000 - 255	<i>Red 17</i>
						50	50	000 - 255	<i>Green 17</i>
						51	51	000 - 255	<i>Blue 17</i>
						52	52	000 - 255	<i>Red 18</i>
						53	53	000 - 255	<i>Green 18</i>
						54	54	000 - 255	<i>Blue 18</i>
						55	55	000 - 255	<i>Red 19</i>
						56	56	000 - 255	<i>Green 19</i>
						57	57	000 - 255	<i>Blue 19</i>
						58	58	000 - 255	<i>Red 20</i>
						59	59	000 - 255	<i>Green 20</i>
						60	60	000 - 255	<i>Blue 20</i>
						61	61	000 - 255	<i>Red 21</i>
						62	62	000 - 255	<i>Green 21</i>
						63	63	000 - 255	<i>Blue 21</i>
						64	64	000 - 255	<i>Red 22</i>
						65	65	000 - 255	<i>Green 22</i>
						66	66	000 - 255	<i>Blue 22</i>
						67	67	000 - 255	<i>Red 23</i>
						68	68	000 - 255	<i>Green 23</i>
						69	69	000 - 255	<i>Blue 23</i>
						70	70	000 - 255	<i>Red 24</i>
						71	71	000 - 255	<i>Green 24</i>
						72	72	000 - 255	<i>Blue 24</i>
						73	73	000 - 255	<i>Red 25</i>
						74	74	000 - 255	<i>Green 25</i>
						75	75	000 - 255	<i>Blue 25</i>
						76	76	000 - 255	<i>Red 26</i>
						77	77	000 - 255	<i>Green 26</i>
						78	78	000 - 255	<i>Blue 26</i>
						79	79	000 - 255	<i>Red 27</i>
						80	80	000 - 255	<i>Green 27</i>
						81	81	000 - 255	<i>Blue 27</i>
						82	82	000 - 255	<i>Red 28</i>

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DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
						83	83	000 - 255	<i>Green 28</i>
						84	84	000 - 255	<i>Blue 28</i>
						85	85	000 - 255	<i>Red 29</i>
						86	86	000 - 255	<i>Green 29</i>
						87	87	000 - 255	<i>Blue 29</i>
						88	88	000 - 255	<i>Red 30</i>
						89	89	000 - 255	<i>Green 30</i>
						90	90	000 - 255	<i>Blue 30</i>
						91	91	000 - 255	<i>Red 31</i>
						92	92	000 - 255	<i>Green 31</i>
						93	93	000 - 255	<i>Blue 31</i>
						94	94	000 - 255	<i>Red 32</i>
						95	95	000 - 255	<i>Green 32</i>
						96	96	000 - 255	<i>Blue 32</i>
						97	97	000 - 255	<i>Red 33</i>
						98	98	000 - 255	<i>Green 33</i>
						99	99	000 - 255	<i>Blue 33</i>
						100	100	000 - 255	<i>Red 34</i>
						101	101	000 - 255	<i>Green 34</i>
						102	102	000 - 255	<i>Blue 34</i>
						103	103	000 - 255	<i>Red 35</i>
						104	104	000 - 255	<i>Green 35</i>
						105	105	000 - 255	<i>Blue 35</i>
						106	106	000 - 255	<i>Red 36</i>
						107	107	000 - 255	<i>Green 36</i>
						108	108	000 - 255	<i>Blue 36</i>
						109	109	000 - 255	<i>Red 37</i>
						110	110	000 - 255	<i>Green 37</i>
						111	111	000 - 255	<i>Blue 37</i>
						112	112	000 - 255	<i>Red 38</i>
						113	113	000 - 255	<i>Green 38</i>
						114	114	000 - 255	<i>Blue 38</i>
						115	115	000 - 255	<i>Red 39</i>
						116	116	000 - 255	<i>Green 39</i>
						117	117	000 - 255	<i>Blue 39</i>

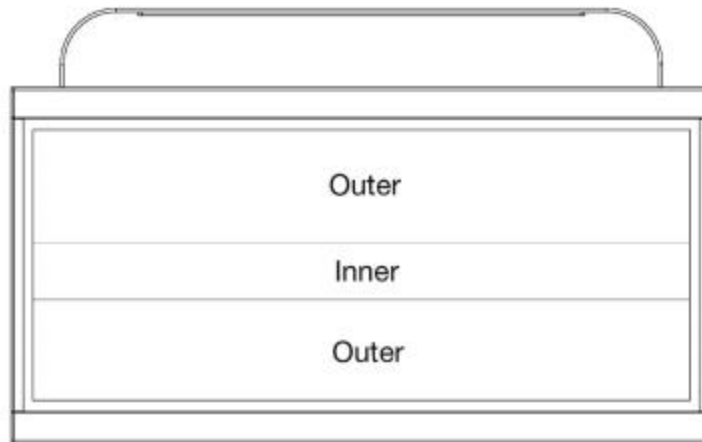
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DMX TRAITS

CHANNEL								DMX VALUES	FUNCTION
6 CH	9 CH	13 CH	18 CH	36 CH	41 CH	126 CH	141 CH		
						118	118	000 - 255	<i>Red 40</i>
						119	119	000 - 255	<i>Green 40</i>
						120	120	000 - 255	<i>Blue 40</i>
						121	129	000 - 255	<i>White 1</i>
						122	130	000 - 255	<i>White 2</i>
						123	131	000 - 255	<i>White 3</i>
						124	132	000 - 255	<i>White 4</i>
						125	133	000 - 255	<i>White 5</i>
						126	134	000 - 255	<i>White 6</i>

LED PIXEL ZONES

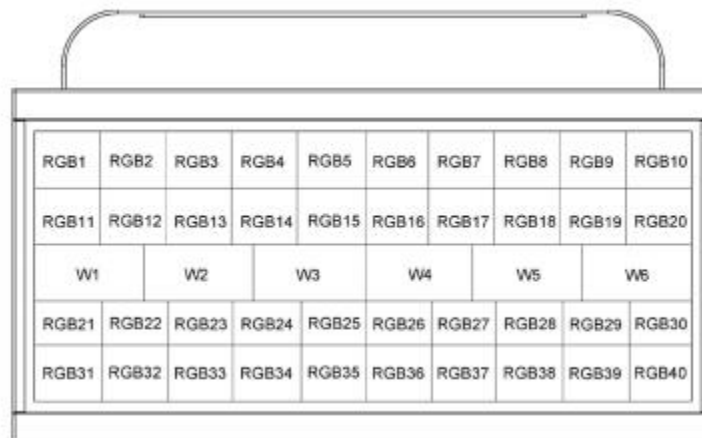
6 / 9 / 13 / 18 CHANNEL MODE



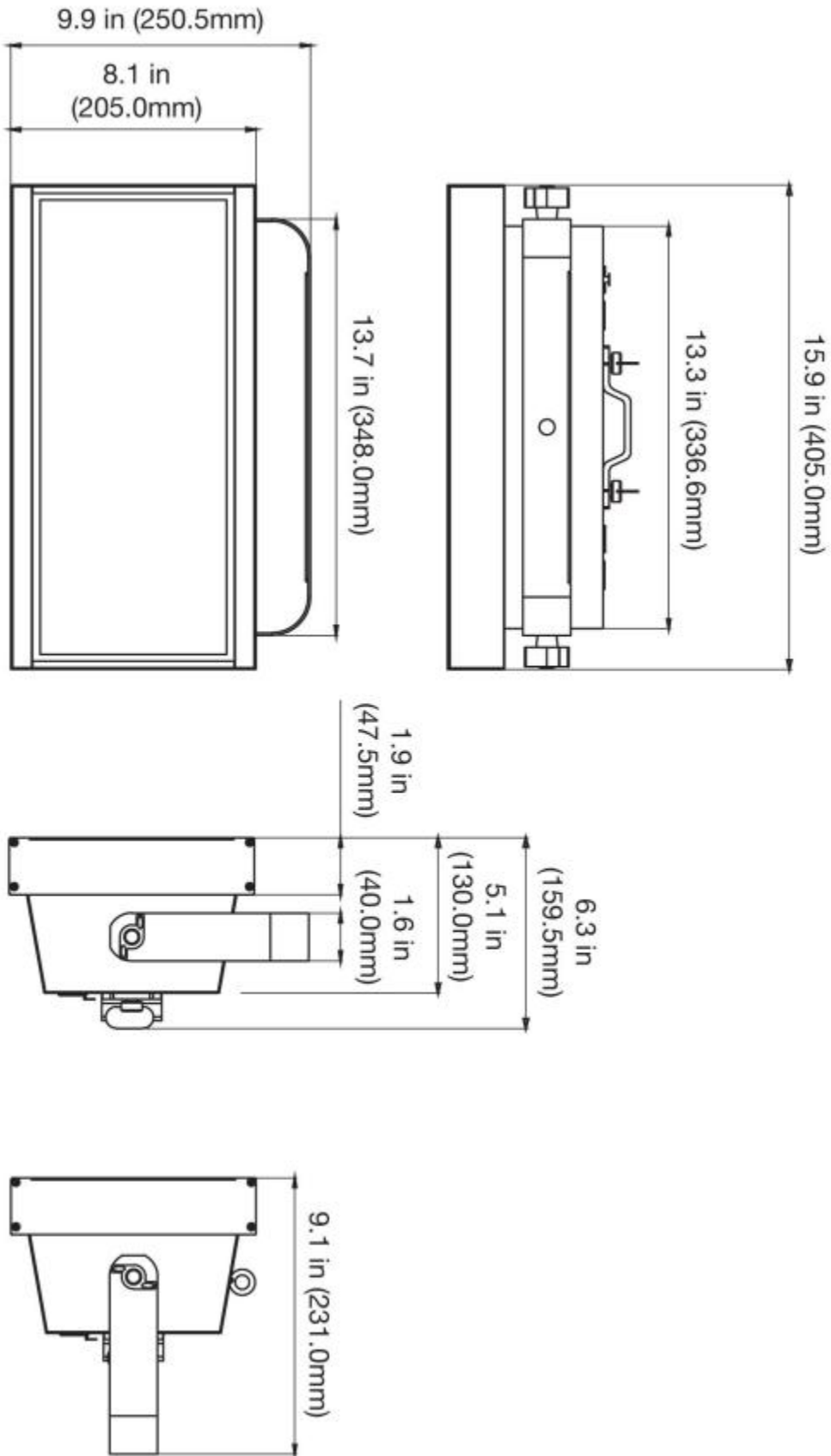
36 / 41 CHANNEL MODE



126 / 141 CHANNEL MODE



DIMENSIONAL DRAWINGS



Dimensions are not drawn to scale.

SPECIFICATIONS

LIGHT SOURCE:

- 800 x 0.3W RGB SMD LEDs + 48 x 5W Cool White SMD LEDs
- RGB LEDs: 121 Degree Beam Angle
- Cool White LEDs: 89 Degree Beam Angle
- Color Temperature: Red: 620-630nm. Green: 515-525nm. Blue: 460-470nm. / Cool White: 6500-7000K
- 50,000 Hour Average LED Life

FEATURES:

- 40 x RGB LED zones
- 6 x Cool White LED zones
- 25 built-in RGB LED Program Macros
- 9 built-in Cool White LED Program Macros

CONTROL:

- Control Protocol: DMX
- 8 DMX Modes: 6, 9, 13, 18, 36, 41, 126, and 141 channels
- 0-100% Smooth Dimming
- Strobe, shutter & pulse control
- Max Strobe Rate 25Hz. Min Strobe Rate: 0.35Hz.
- With Wired Digital Communication Network
- Display: LCD display with 4-button touch menu

CONNECTIONS:

- Data: 5-pin DMX In/Out
- 180 degree mounting bracket system
- Ready for Omega Bracket (Sold Separately)
- Power locking power in/out

ELECTRICAL:

- 100-240V 50Hz/60Hz (Auto Sensing)
- Max Power Consumption: 300W (2.7A@120V~60Hz, 1.4A@230V~50Hz)

DIMENSIONS / WEIGHT:

- Length: 6.3" (159.5mm)
- Width: 15.9" (405.0mm)
- Height: 9.9" (250.5mm)
- Weight: 13.2 lbs. (6kg)

Specifications and manual are subject to change and improvement without prior written notice.