

V2 LED SOFTLIGHT USER GUIDE



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WHAT'S IN THE BOX:

- Light Panel and Yoke Assembled
- 2 4-Pin DMX Cable (for Controller Extension)
- 3 5-Pin DMX Cable (for Connecting Multiple Fixtures)
- 4 3m 120V Power Cord
- 5 90° Honey Comb Louver

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FEATURES

- 2700K Tungsten 6500K Daylight Controllable Range
- Continuous DMX 512 Dimming Control: 100%-0%
- · Connect Multiple Fixtures for Uniform Dimming and Color Temperature Control
- Flicker Free DC Driving System
- CRI up to 95
- Heavy Duty Adjustable Yoke: Capable of Hanging in Studio or Portable Stand Mounting
- 1-Year Warranty
- Certifications: UL, FCC, and CE
- Max. Power Consumption: 100W < 1A
- 90-240V AC Input Range

APPLICATIONS:

- · Cinematography
- Video Broadcasting
- · Professional Photography



I CAUTIONS & WARNINGS

- WARNING RISK OF ELECTRIC SHOCK! Turn off all power switches on the Pro-Panel fixture before connecting or disconnecting any AC power or control cables (main or jumpers).
- WARNING RISK OF ELECTRIC SHOCK! Do not use in wet or damp operating locations (condensing humidity hazard).
- WARNING RISK OF ELECTRIC SHOCK! Do not insert any tools or metallic objects into any gap in the fixture.
- WARNING RISK OF ELECTRIC SHOCK! Do not open the case, modify, or change any component of the product.
- Over Heating! Do not cover or wrap the fixture with any cloth, textile, tape, or plastic during operation.
- Failure to abide by any of the above warnings will void the product warranty.
- WARNING! Securely tighten the yoke and any light stand connections before operation. Only use mounting hardware rated for the weight of the fixture.
- WARNING! When hanging the fixture from a truss the use of a safety cable is mandatory. Only hang in accordance to local safety laws and regulations.

OPERATION, STORAGE & HANDLING

- Use and install this product only according to this operation manual and or local safety laws and regulations.
- CAUTION! Do not connect a DMX Control Console and the Pro-Panel Remote Controller at the same time. This will cause the interruption and improper operation of the light.
- CAUTION! Keep the panel upright during storage and transportation to prevent pressure and damage to the diffuser and LED board inside.
- CAUTION! Do not apply any pressure to the diffuser panel. This may crack the diffuser and or damage the LED board.
- Turn off all power and disconnect power cables prior to cleaning.
- Use only a clean dry cloth to clean the fixture. Do not spray any liquids onto or into the fixture.



TECHNICAL SPECIFICATIONS

Watt	Ordering	Lamp	Weight	Lumi Flux	inous (Im)	N Iux @	Aaximum I ? (Im)	lluminatio fc @	n (Im)	CRI	Color Temp
(W)	Code	Description		2700K	6500K	2700K	6500K	2700K	6500K		(K)
100	1003938	PRO-Panel V2 1X2	12 lbs.	4800	5300	1750	1900	163	177	90-94	2700K-6500K
100	1003947	PRO-Panel V2 2x2	16 lbs.	6100	7000	2200	2500	204	232	90-95	2700K-6500K

PRO-PANEL V2 (1X2)

Output	4800lm (CCT 2700K), 5300lm (CCT 6500K)
Color Temperature	2700 to 6500K (user adjustable)
CRI	up to 95
Dimming	0 to 100%
Control	DMX 512, Preset CCT button, Dial (Dimming/CCT/Address), Remote
Power	100W (Dimming Max)
Operating Voltage	100 to 240V (AC) / 20 to 30V (battery DC)
Current (AC)	0.5 to 1 amp
Power Factor	Over Pf 0.9 (Dimming Max)
Frequency	50/60Hz
Ambient Temperature	-20°C to 45°C
Exterior Surface Temp	Under 70°C
Physical Dimensions	679mm W x 382mm L x 136.5mm H
Weight	12 lbs.(main body); 2.65 lbs.(barn doors); 1 lb. (honeycomb), 1 lb. (gel frame)
Accessories	Honeycomb, Gel Frame, Remote Cable, DMX Cable
Optional Accessories	4-Leaf Barn Doors (part#1003939), Remote Controller (part#1003986)

PRO-PANEL V2 (2X2)

Output	6100lm (CCT 2700K), 7000lm (CCT 6500K)
Color Temperature	2700 to 6500K (user adjustable)
CRI	up to 95
Dimming	0 to 100%
Control	DMX 512, Preset CCT button, Dial (Dimming/CCT/Address), Remote
Power	100W (Dimming Max)
Operating Voltage	100 to 240V (AC) / 20 to 30V (battery DC)
Current (AC)	0.5 to 1 amp
Power Factor	Over Pf 0.9 (Dimming Max)
Frequency	50/60Hz
Ambient Temperature	-20°C to 45°C
Exterior Surface Temp	Under 70°C
Physical Dimensions	673mm W x 646mm L x 117mm H
Weight	16 lbs.(main body); 2.65 lbs.(barn doors); 1 lb. (honeycomb), 1 lb. (gel frame)
Accessories	Honeycomb, Gel Frame, Remote Cable, DMX Cable
Optional Accessories	4-Leaf Barn Doors (part#1003951), Remote Controller (part#1003986)



PRODUCT DIAGRAM





ADJUSTING THE YOKE HANDLE



2

To position the Pro-Panel angle, loosen the clamp handle counter-clockwise. Adjust the panel to its desired angle, then rotate the clamp handle clockwise to tighten.

To position the clamp handle to a desired location, pull outward on the clamp handle, then turn the clamp handle to its desired location and release.



To adjust the resistance of the panel, loosen the hexagon wrench bolt (on the opposite end of the yoke) clockwise to tighten and counter-clockwise to loosen.



AC POWER OPERATION



3-Prong Power Cord

• Make sure that the Pro-Panel is plugged into 100~240 AC power source.

• When power is first applied to the fixture, the alphanumeric display shows the current software version.

• Press the On/Off button on the LED display to turn on the fixture.

DC POWER OPERATION (BATTERY)

• Pro-Panel operates with a 24VDC (Input range 20~30VDC) battery or equivalent power source.



OPERATION AND PROGRAMMING



CATEGORY	FUNCTION	DETAILS
	Dimming	Dimming knob is used to adjust brightness from 0 to 100%
	Kelvin	Kelvin knob is used to set CCT level from 2700K to 6500K
	Address	Sets the units DMX 512 address from 1 to 511. Use Kelvin knob to change address.
	Tungsten	Preset 3200K Selection
	Daylight	Preset 5500K Selection
Mode	Dimming / Kelvin Encoder Function	Dimming Encoder toggle (Fine: 1.3 steps; Coarse: 4 steps) Kelvin Encoder toggle (Fine: 50K steps; Coarse: 100K steps)
	Kelvin Preset (Memory)	After adjusting to a system Kelvin value, PUSH the 'Tungsten' button for 3 seconds. When finished, the LED display will blink 3 times. Repeat for daylight color temperature using the 'Daylight' button.
	Reset	To RESET, press the 'Tungsten' and 'Daylight' button together and hold for 3 seconds.

PROTECTION CIRCUIT

There are 3 Protection Circuits:

When the protection circuit is engaged, the LED display will display 'UVP', 'bATP' or 'OVP'.

- 1. UVP Mode (Under Voltage Protection)
 - When the Battery voltage drops under 20V, the LED display will display 'UVP '
- 2. **bATP Mode** (Battery Protection)
 - When Battery discharge (under voltage instability due to a lack of current capacity), the LED Display will display 'bATP'.
- 3. **OVP Mode** (Over Voltage Protection)
 - When the Battery voltage exceeds over 30V, the LED display will display 'OVP'.

Master Mode

Master unit plays a role of the hub for transmission and connection of all Slave units using DMX cabling.

- a. For more information on set up 'Master' and 'Slave', refer to page 10. b. Quantity for Master unit is one (1).
- c. The default setting is 'Slave Mode'.
- Do not connect the DMX console under master mode.



Slave Mode

• Connect the DMX console under slave mode.

- a. For more information on set up 'Master' and 'Slave', refer to page 10.
- b. The default setting is [Slave Mode].
- c. For DMX Termination, refer to page 14.



control console.

SETTING UP MASTER OR SLAVE



CONNECTING TO THE DMX 512 NETWORK

DMX 512 Input / Output Pin Map

- · Position the barn doors alongside the extruded edge of the fixture.
- Align the thumbscrews with the adjustable receptacle holes in the fixture and insert into place.
- Lock the barn doors by turning the silver thumbscrew.



DMX 512 Sigr	nal		XLR PIN			
GND			1			
DMX -			2			
DMX 2		3				
DI	MX Data J	lump Cab	le			
XLR PIN	SIG	NAL COLOR				
1	GN	ID	Yellow			

DATA 1-

DATA 1+

DATA 2-

DATA 2+

NOTE: Shield - Blue

Black

White

Green

Red

DMX 512 Connections

2

650

51

¹MSTR

ON/OFF

ON/OFF 👩

V

How to set up an Address

STEP 1:

Press Address selection button and check the current address number. (Green color indicator is displayed)

2

3

4

4

STEP 2:

Press Address selection button again then will be flashing the current address number. (Red color indicator is displayed, address adjustment mode is active)

STEP 3:

Rotate Kelvin Selection Knob button and select the desired address number.

STEP 4:

Press Address selection button to save the modified number. (Green color indicator is displayed)

STEP 5:

Make changes as desired. Note: Valid address from '0~511' To regain manual control with the DMX cable plugged in, set the DMX address to '0'. Channel Lavout: 1=Color 2=Dimming

DMX vs DIMMING TABLE

DMX	Dimming[%]	DWX	Dimming[%]	DWX	Dimming[%]	DWX	Dimming[%]
0	0	66	26.3	130	51.3	193	76.3
1	1.3	67		131		194	
2		68		132		195	
3		69	27.6	133	52.6	196	
4		70		134		197	77.6
5		71		135		198	
6	2.6	72		136	53.0	100	
7	2.0	70	00.0	100	55.5	000	70.0
/		73	28.9	137		200	78.9
8		74		138		201	
9	3.9	75		139		202	
10		76	30.2	140	55.2	203	80.2
11		77		141		204	
12	5.2	78		142		205	
13		79	31.5	143	56.5	206	
14		80		144		207	81.5
15		81		145		208	
16	6.5	82		146	57.8	209	
17		83	32.8	147	1	210	82.8
18		84		148		211	
19	78	85		149		212	
20		86	34.2	150	59.2	213	
20		97	04.2	151	55.2	210	94.2
21	0.0	07		151		214	04.2
22	9.2	88		152		215	
23		89	35.5	153	60.5	216	
24		90		154		217	85.5
25		91		155		218	
26	10.5	92		156		219	
27		93	36.8	157	61.8	220	86.8
28		94		158		221	
29	11.8	95		159		222	
30		96	38.1	160	63.1	223	
31		97		161		224	88.1
32	13.1	98		162	1	225	
33		99	39.4	163	64.4	226	
34		100		164		227	89.4
35		101		165		228	00.1
26	14.4	102		166		220	
27	14.4	102	40.7	167	65.7	229	00.7
37		103	40.7	107	05.7	230	90.7
38		104		108		231	
39	15.7	105		169		232	
40		106	42.1	170	67.1	233	
41		107		171		234	92.1
42	17.1	108		172		235	
43		109		173	68.4	236	
44		110	43.4	174		237	93.4
45		111		175		238	
46	18.4	112		176		239	
47		113	44.7	177	69.7	240	94.7
48		114		178		241	1
49	19.7	115		179	İ	242	
50		116	46	180	71	243	
51		117	-	181		244	96
52		118		182		245	
52	21	110		182	72.3	2/6	
55	<u>ب</u> ۱	120	473	103	, 2.0	240	072
54		120	т <i>1.</i> 3	104		24/	91.3
55	00.0	121		105		248	
56	22.3	122	40.0	186	70.0	249	
57		123	48.6	187	/3.6	250	98.6
58		124		188		251	
59	23.6	125		189		252	
60		126	50	190	75	253	
61		127		191		254	100
62		128		192		255	
63	25	129					
64				-			
65							

DMX vs KELVIN TABLE

DMX	Kelvin[K]	DMX	Kelvin[K]	DMX	Kelvin[K]	DMX	Kelvin[K]
0	2700	66	3700	130	4650	193	5600
1	2750	67		131		194	
2		68		132		195	
3		69	3750	133	4700	196	
4		70		134		197	5650
5		71		135		198	
6	2800	72		136	4750	199	
7		73	3800	137		200	5700
8		74		138		201	
9	2850	75		139		202	
10		76	3850	140	4800	203	5750
11		77		141		204	
12	2900	78		142		205	
13		79	3900	143	4850	206	
14		80		144		207	5800
15		81		145		208	
16	2950	82		146	4900	209	
17		83	3950	147		210	5850
18		84		148		211	
19	3000	85		149		212	
20		86	4000	150	4950	213	
21		87		151		214	5900
22	3050	88		152		215	
23		89	4050	153	5000	216	
24		90		154		217	5950
25		91		155		218	
26	3100	92		156		219	
27		93	4100	157	5050	220	6000
28		94		158		221	
29	3150	95		159		222	
30		96	4150	160	5100	223	
31		97		161		224	6050
32	3200	98		162		225	
33		99	4200	163	5150	226	
34		100		164		227	6100
35		101		165		228	
36	3250	102		166		229	
37		103	4250	167	5200	230	6150
38		104		168		231	
39	3300	105		169		232	
40		106	4300	170	5250	233	
41		107		171		234	6200
42	3350	108		172		235	
43		109		173	5300	236	
44		110	4350	174		237	6250
45		111	-	175		238	
46	3400	112		176		239	
47		113	4400	177	5350	240	6300
48		114	-	178	-	241	
49	3450	115		179		242	
50		116	4450	180	5400	243	
51		117		181		244	6350
52		118		182		245	
53	3500	11.9		183	5450	246	
54		120	4500	184	~~~~	247	6400
55		121		185		248	
56	3550	122		186		249	
57		123	4550	187	5500	250	6450
58		124		188		251	
59	3600	125		189		252	
60		126	4600	190	5550	253	
61		127		191		254	6500
62		128		192		255	
63	3650	129					
64	3000	120		I			
65							
00							

REMOTE DMX DIMMING & COLOR TEMPERATURE CONTROLLER

Remote Dimmer part#1003986

Knobs: Knob marked **'Kelvin Control'** changes color temperature (2700K to 6500K) and knob marked **'Dimming Control'** changes intensity (0.0 to 100.0, increments of 0.4).

Preset Buttons: Preset button '**Tungsten**' instantly changes the color temperature to 3200K. Preset button '**Daylight**' instantly changes the color temperature to 5600K. These buttons may be custom programmed to any color temperature.

Customizing Preset Button: Adjust the Pro-Panel to desired color temperature setting using '**Kelvin Control**' then press either '**Tungsten**' or '**Daylight**' preset button for 3 seconds. Follow the same steps for each preset button." To restore to factory default, press both buttons for 3 seconds.

LED Display: Displays the color temperature and intensity setting of the Pro-Panel.



Notes:

- 1. Remote controller may not be used in tandem with a DMX control console.
- 2. Remote controller connects to Pro-Panel using 4 pole XLR connector.
- 3. A remote controller may control multiple Pro-Panels at the same time (the channel must be set to "1").

*To verify accurate color temperature, the use of a light meter is recommended.



REMOTE CONTROLLER



Remote Controller Connections						
REMOTE SIGNAL	XLR PIN					
GND	1					
DATA B	2					
DATA A	3					
3.3V	4					

Remote Controller Data Cable							
XLR PIN	SIGNAL	COLOR					
1	GND	Yellow					
2	DATA B	Black					
3	DATA A	White					
4	3.3V	Red					

Remote Controller for one set connection

• When Remote Controller is applied to the DMX Input Connector, the LED display reads code "RMT".

Remote Controller for multiple panel connections

- The Remote Controller may control one set or act as a master controller when connected to multiple panels.
 The DMX console or other control devices are not available under multiple connections due to signal conflicts.
- The Remote Controller should be connected to 'Master" unit under multiple connections. (See page 10)
- Color deviations may occur dimming under 10% due to deviations of driver IC.



DMX TERMINATION RESISTOR SWITCH & USB INPUT

REMOTE TERMINATE/USB 24V DC



USB Connection & Pin Map

- Used to upgrade firmware.
 When USB Jack plugged into USB Connector, the LED display shows 'USB'.

USB Connections						
USB Signal	Pin					
5V	1					
DDM	2					
DDP	3					
Not Used	4					
GND	5					

DMX Termination Resistor

- Noise phenomenon can occur due to multi-connection fixtures or DMX MAX cable length.
- The Termination Resistor is to prevent 'noise phenomenon' under multi-fixture connections.
 For the Termination Resistor, last Pro-Panel must switch to ON.

Terminate					
Signal	Pin				
Switch (Left)	1 (Terminate Off)				
Switch (Right)	2 (Terminate Off)				



INSTALLING HARDWARE ACCESSORIES

- Barn Doors (part #1003939):
 Position the barn doors alongside the extruded edge of the fixture.
 Align the thumbscrews with the adjustable receptacle holes in the fixture and insert into place.
 - Lock the barn doors by turning the thumbscrew.



90° Honeycomb Louver:• The Honeycomb Louver controls and focuses the light which narrows the light spread with minimal light loss.



Gel Frame:

- To change the look or create a specific scene. Gel not included.
- Gel Frame Size : 300mm x 559mm x 3mm



