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# MVP 6/12 Pak Dimmer

## USERS MANUAL



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**Introduction**

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This Manual is supplied with your MVP Dimmer System. Copies of this manual may be obtained through EDI's website for no charge. If a hard copy is needed, it can be obtained from the factory for a nominal charge.

No part of this Manual may be reproduced by any means, graphic, electronic, or mechanical, including photocopying, recording, taping, or information storage and retrieval systems, without the express written permission of Electronics Diversified, Inc., except in connection with installation, repair and maintenance of installed MVP Dimmer Systems.

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**Description**

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The MVP is a simple compact dimming system. The MVP is available in eight different standard configurations depending on power load per dimmer and number of dimmers. Options such as fluorescent dimming modules and various dimming loads on dimmers may be featured on custom units. Typically, The MVP unit will have either six or twelve dimmers, denoted as MVP 6 or MVP 12. Dimmer modules may be 600W, 1.2kW, 1.8kW, and 2.4kW.

The MVP comes standard with a digital card accepting DMX-512 protocol. In addition, the MVP has assignable worklights and panic functions that can be remotely activated over 1000 feet of cable.

The optional analog card accepts analog 0 –10 V signals along with expansion cards. Two expansion slots allow the user to add DMX-512, Worklight card, Set and Forget, and other optional controller cards. The user can also add secondary analog for a backup source if necessary in a HTP scenario.

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Features

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Circuit Breakers

**For Circuit Breakers  
turn to page 3**

Heat Vents

**For Precautions,  
turn to page 3**

Heat Sinks

**For Precautions,  
turn to page 3**

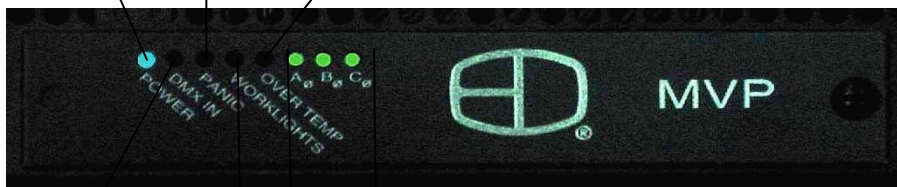


**For Panic  
Functions  
turn to  
page 5**

Power  
Indicator

Panic On  
Indicator

Over Temperature  
Indicator



DMX In  
Indicator

Worklight  
On Indicator

Phase Indicator  
Lights

**For DMX  
turn to  
page 4**

**For Worklight  
Functions turn  
to page 5**

**For Phase  
Indicators,  
turn to  
page 3**

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## Setup

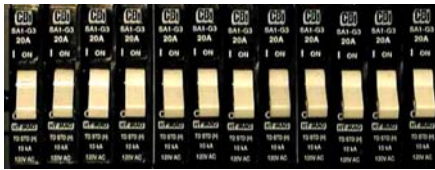
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### (A) MVP breakers (may vary in numbers and style )

600W versions



1.2kW and 2.4kW versions



### (B) Power indicator



### (C) Phase indicators



## Precautions

Make sure to read the manual thoroughly before using the MVP Dimmer.

**WARNING:** Make sure area is cleared around the MVP. No flammable objects should be placed near the heat sinks. No object should be near or covering any of the heat vents. Sporadic operation or possible fire may occur.

## Power Up

1. Turn on main power to the MVP Dimmer Pack.
2. Turn on breakers on the MVP (Figure A). **Make sure all control sources are at their lowest level or off.** **NOTE: 600 W MVP come with breakers in their on position.**

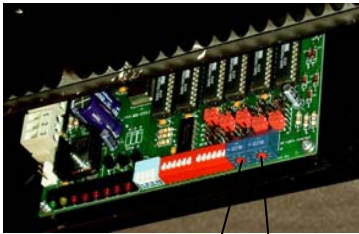
When the Main Feed is energized, The Power indicator (Figure B) at the bottom of the box lights, displaying that the control section of the rack and dimmers are powered. Depending on the configuration, all three of the Phase indicators (Figure C) are brightly lit. This represents normal operation. If one or more are dimly lit, refer to the Trouble Shooting section (page 6). The Rack is now powered up.

## Control Sources

The MVP is designed to handle a multitude of sources. Depending on the unit designed, it may accept a DMX, analog 0 to 10V, contact closures, or available controller interface cards. The following sections explain how to set up MVPs that accept analog and DMX sources. For more information about other sources, please contact the factory.

## Setup

(D) DMX Card



S2 S1  
Dimmer Addressing  
Switches (HEX)

(E) DMX Indicator DMX



If your MVP is being controlled by a USITT DMX-512 source, read the following instructions on how to address the dimmer:

1. Unscrew the access panel at the bottom of the unit.
2. Locate the two DMX hex address switches (S1 and S2) (Figure D).
3. Select a proper starting address for the dimmer using the guide below (Figure F) and assign the dimmer using the two address switches (S1 and S2). If DMX is being accepted by the dimmer, the "DMX IN" light (Figure E) should be lit.
4. Test lights at the DMX controller (SMART, TSC, etc.) for proper function.
5. Replace access panel on dimmer.

(F) DMX address guide

S1 S2	addr.	S1 S2	addr.	S1 S2	addr.	S1 S2	addr.	S1 S2	addr.	S1 S2	addr.
0 0	off	2 B	85	5 6	171	8 1	257	A C	343	D 7	429
0 1	1	2 C	87	5 7	173	8 2	259	A D	345	D 8	431
0 2	3	2 D	89	5 8	175	8 3	261	A E	347	D 9	433
0 3	5	2 E	91	5 9	177	8 4	263	A F	349	D A	435
0 4	7	2 F	93	5 A	179	8 5	265	B 0	351	D B	437
0 5	9	3 0	95	5 B	181	8 6	267	B 1	353	D C	439
0 6	11	3 1	97	5 C	183	8 7	269	B 2	355	D D	441
0 7	13	3 2	99	5 D	185	8 8	271	B 3	357	D E	443
0 8	15	3 3	101	5 E	187	8 9	273	B 4	359	D F	445
0 9	17	3 4	103	5 F	189	8 A	275	B 5	361	E 0	447
0 A	19	3 5	105	6 0	191	8 B	277	B 6	363	E 1	449
0 B	21	3 6	107	6 1	193	8 C	279	B 7	365	E 2	451
0 C	23	3 7	109	6 2	195	8 D	281	B 8	367	E 3	453
0 D	25	3 8	111	6 3	197	8 E	283	B 9	369	E 4	455
0 E	27	3 9	113	6 4	199	8 F	285	B A	371	E 5	457
0 F	29	3 A	115	6 5	201	9 0	287	B B	373	E 6	459
1 0	31	3 B	117	6 6	203	9 1	289	B C	375	E 7	461
1 1	33	3 C	119	6 7	205	9 2	291	B D	377	E 8	463
1 2	35	3 D	121	6 8	207	9 3	293	B E	379	E 9	465
1 3	37	3 E	123	6 9	209	9 4	295	B F	381	E A	467
1 4	39	3 F	125	6 A	211	9 5	297	C 0	383	E B	469
1 5	41	4 0	127	6 B	213	9 6	299	C 1	385	E C	471
1 6	43	4 1	129	6 C	215	9 7	301	C 2	387	E D	473
1 7	45	4 2	131	6 D	217	9 8	303	C 3	389	E E	475
1 8	47	4 3	133	6 E	219	9 9	305	C 4	391	E F	477
1 9	49	4 4	135	6 F	221	9 A	307	C 5	393	F 0	479
1 A	51	4 5	137	7 0	223	9 B	309	C 6	395	F 1	481
1 B	53	4 6	139	7 1	225	9 C	311	C 7	397	F 2	483
1 C	55	4 7	141	7 2	227	9 D	313	C 8	399	F 3	485
1 D	57	4 8	143	7 3	229	9 E	315	C 9	401	F 4	487
1 E	59	4 9	145	7 4	231	9 F	317	C A	403	F 5	489
1 F	61	4 A	147	7 5	233	A 0	319	C B	405	F 6	491
2 0	63	4 B	149	7 6	235	A 1	321	C C	407	F 7	493
2 1	65	4 C	151	7 7	237	A 2	323	C D	409	F 8	495
2 2	67	4 D	153	7 8	239	A 3	325	C E	411	F 9	497
2 3	69	4 E	155	7 9	241	A 4	327	C F	413	F A	499
2 4	71	4 F	157	7 A	243	A 5	329	D 0	415	F B	501
2 5	73	5 0	159	7 B	245	A 6	331	D 1	417	F C	503
2 6	75	5 1	161	7 C	247	A 7	333	D 2	419	F D	505
2 7	77	5 2	163	7 D	249	A 8	335	D 3	421	F E	507
2 8	79	5 3	165	7 E	251	A 9	337	D 4	423	F F	509
2 9	81	5 4	167	7 F	253	A A	339	D 5	425		
2 A	83	5 5	169	8 0	255	A B	341	D 6	427		

## Analog

If your MVP is being controlled by an analog source, the contractor has wired specific outputs to a specific control unit. Please contact your factory representative for more details concerning the readdressing of the dimmer to a different source input.

### (G) One screw front panel

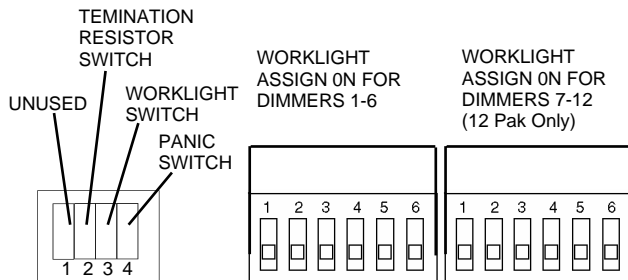


### (H) Panic and Worklight



Panic and Worklight switches

### (I) Worklight Assignment



## Panic

The MVP dimmer is equipped with a Panic function. When activated, all dimmers go to full load. This feature is useful in troubleshooting and bringing all lights on. To turn on:

1. Unscrew the front panel (Figure G).
2. Locate the Panic switch (Figure H).
3. Toggle Panic switch to the "On" position (Figure I).  
When activated, the Panic light will turn on.

Depending on the installation, The MVP may be equipped with a remote Panic switch. Consult your representative for more details.

## Worklights

The MVP is also equipped with a Worklight function. This function allows the user to easily bring on a specific set of lights manually from the dimmer to full.

To set and turn on the Worklights:

1. Unscrew the front panel (Figure G).
2. Locate and select the correct Worklight assigned dimmer switches using the diagram (Figure I).
3. Push the Worklight assigned dimmer switch to the "On" position.
4. Push the Worklight Switch and the light for the dimmer(s) should light up.

## Troubleshooting

Symptom	Indicators	Causes	Remedy
System dead, no lights come on, regardless of controller settings.	<p>No indicators are lit.</p> <p>DMX indicator is not lit.</p> <p>All correct lights are lit</p>	<p>Unit is not powered.</p> <p>Control source is not talking to the dimmers.</p> <p>Dimmer Breakers are off.</p> <p>Analog source is not talking to the dimmer.</p> <p>Control board malfunctioning</p>	<p>Find main circuit breakers to MVP</p> <p>Check to see if control source is on or improperly working.</p> <p>Turn on circuit breakers</p> <p>Check to see if control source is on or improperly working.</p> <p>Call service technician</p>
Some lights come on, but one or more will not.	<p>One or more phase lights are dimly lit.</p> <p>All correct lights are lit</p>	<p>A phase is out.</p> <p>Wiring is not connected securely or is improperly wired.</p> <p>Analog source is not properly connected to the dimmer.</p> <p>Control board malfunctioning or blown SCR</p>	<p>Check main circuit breakers to MVP.</p> <p>Call service technician.</p> <p>Check to see if control source is on or improperly working.</p> <p>Call service technician</p>
Lights are on but cannot be controlled by the source	Panic indicator is lit	Panic is on and overriding the control source.	Turn off Panic.
Some lights are on but cannot be dimmed.	Worklight indicator is lit.	Worklight is on	Turn off Worklight.
Lights will go out and come back on after some time	Overtemp indicator lights as the unit shuts	The unit is overheating.	Shut down and remove any obstructions from off the front of the unit. If the problem persists contact the factory.

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**Service**

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EDI offers a 24 hour Service/Support Network.

For technical questions about this product or operational assistance, ask for Customer Service at:

Telephone:.....1-800-547-2690


FAX:.....1-503-629-9877

Internet.....www.edionline.com

Internet E-Mail:.....service@edionline.com

If your MVP needs repair, call: 1-503-645-5533 for a Return Materials Authorization number. A shipping address will be furnished.

This dimmer is a product of:

 **Electronics  
Diversified, Inc.** 1675 N.W. Cornelius Pass Road, Hillsboro, Oregon 97214 USA



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MVP

## Attention MVP Owners!

**Please return this registration card immediately.**

Your prompt attention to this matter will ensure your receiving up-dated technical information for this product as it becomes available. Please complete all information. Look for acknowledgement of your registration within 6-8 weeks.

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Activation Date: \_\_\_\_\_

Facility and/or Company: \_\_\_\_\_

\_\_\_\_\_

Street Address: \_\_\_\_\_

\_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: \_\_\_\_\_

Fax: \_\_\_\_\_

E-mail: \_\_\_\_\_

Web site: \_\_\_\_\_

CUT ALONG DOTTED LINE



**Mail To:**  
**EDI User Manual Registration**  
**1675 NW Cornelius Pass Road**  
**Hillsboro, Oregon 97214**

**or FAX to: (503) 629-9877**