



Par-DIM



User Instructions

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Unpacking

Every Par Dim has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your controller for any damage and be sure all equipment necessary to operate the unit has arrived intact. In case damage has been found or parts are missing, please contact us or your nearest dealer/distributor for further instructions.

To optimize performance of this product, please read instructions in this manual and on the case of this product carefully to familiarize yourself with the basic operations. Once manual has been thoroughly read, we recommend you should file it for future reference.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service, please contact Elation customer support.

Do not discard the packing carton in the trash. Please recycle when ever possible.

Safety Warnings

- The ground connection should be essential for this unit.
- Do not make any inflammable liquids, water or metal objects enter the unit.
- To prevent or reduce the risk of electric shock, DO NOT OPEN THE TOP COVER.
- This unit must be operated by adults, do not allow children to play with it.
- There are no user serviceable parts inside this unit. Do not attempt any repairs yourself.
- Should you experience any problem during use, please contact your local dealer immediately.
- Do not discard the shipping cartoon in the trash. Please recycle when ever possible.
- Always consult authorized personnel for any repairs and maintenance.
- When unpacking, please check the unit is not damaged. Should something wrong happen to this product, contact the local dealer immediately.
- All rights reserved. No part of the manual included with this product may be reproduced, transmitted, transcribed or translated into any language in any form, by any means, without authorized permission.

Main Features

- One channel Dimmer Pack specially designed to control Par Can.
- USITT DMX512(1990) multiplexed digital control, via 3 pin XLR connector.
- Provided one Edison socket on the top side for load.
- Ability of maximum load of 500W/120V.
- 10 digit dipswitch for functional setup.
- 3-pin XLR DMX IN/THRU.
- DMX Control Mode and Stand Alone Mode(Self-control) available .
- 7 different Dim Moodes for user's selection, available in
 - DIM 25% mode,
 - DIM 50% mode,
 - DIM 75% mode,
 - DIM 100% mode,
 - Speed fade fast(5S) mode,
 - Speed fade medium(1M) mode
 - and Speed fade slow(5M)mode.

Power & DMX Setup

Power Supply:

Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your Par Dim power supply. The Par Dim is available in a 120v version. Due to variations in line voltage from venue to venue, be sure to plug your power supply into a wall outlet with matching power before attempting to operate.

Data Cable (DMX Cable) Requirements:

The Par Dim can be controlled via DMX-512 protocol and your DMX controller requires a standard 3-pin XLR connector for data input and data output(Figure1). Connect the Par Dim and your fixtures together using standard 3 pin DMX cables. The Par Dim uses DMX-512 protocol to operate your fixtures.

If you are constructing your own data cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all professional sound and lighting stores). Your cables should be made with a 3-pin male and female XLR connector on either end of the cable. Also remember that DMX lines must be daisy chained and can't be split.

***Note:**

Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable's shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR's outer casing. Grounding the shield could cause a short circuit and erratic behavior.



Figure 1

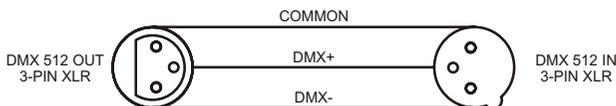


Figure 2

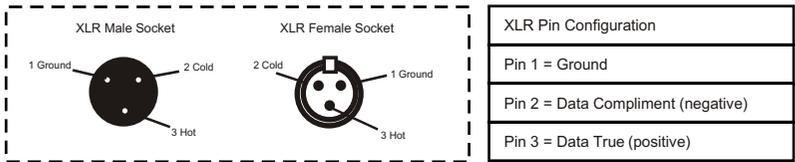


Figure 3

***Special Note:**

Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator will decrease the possibilities of erratic behavior.

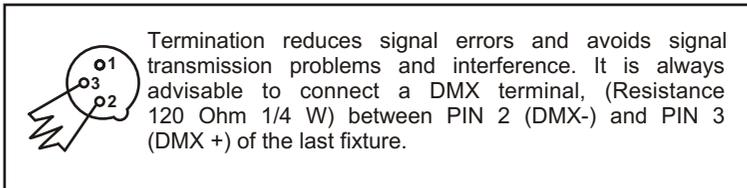


Figure 4

DMX Signal Cable. 120 ohm impedance DMX signal cable **MUST** be used for signal connection.

5-Pin XLR DMX Connectors.

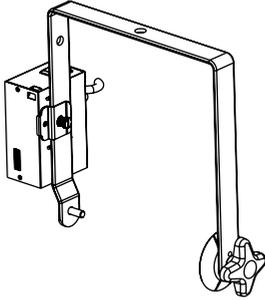
Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female(Out)	5-pin XLR Male(In)
Ground/Shield	Pin 1	Pin 1
Data Compliment(-signal)	Pin 2	Pin 2
Data True(+signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Used
Not Used		Pin 5 - Do Not Used

Mounting & Installation

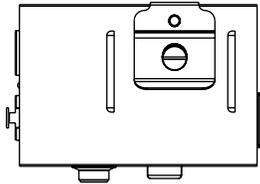
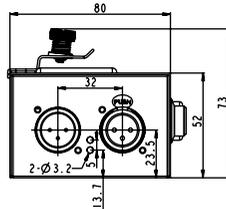
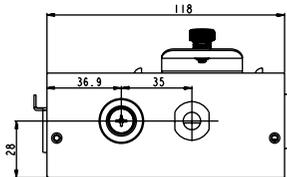
The Par Dim may be temporarily mounted and rigged onto the hanging bracket of the Par Can. It is important never to obstruct the vent pathway. After finding the desired position and installation location, mount the unit by using the clamp, re-tighten the spring screw. For the sake of the safe, it is always advisable that the safety cable should be used to secure. Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

Mounted on the hanging bracket



**Safety cable
(sold separately!)**

Physical Dimensions



DMX Address Setting(DMX Control Mode)

DMX is short for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

- Dip Switch 1 address equals 1
- Dip Switch 2 address equals 2
- Dip Switch 3 address equals 4
- Dip Switch 4 address equals 8
- Dip Switch 5 address equals 16
- Dip Switch 6 address equals 32
- Dip Switch 7 address equals 64
- Dip Switch 8 address equals 128
- Dip Switch 9 address equals 256

DMX ADDRESS SETTING			
(Dip Switch 10 = OFF)			
START CH#	SWITCHES ON	START CH#	SWITCHES ON
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	:	:
7	1,2,3	:	:
8	4	:	:
9	1,4	:	:
10	2,4	511	1,2,3,4,5,6,7,8,9

In this mode, the dip-switch 10 is flipped to the "OFF" position.

When flipping Dip Switches 1~10 to the "OFF" position, the address is "512".

Stand Alone Mode(Self-control Mode)

Flip Dip Switch 10 to the "ON" position to call up the Self-control Mode. In this mode, there are 7 different dim modes for your selection, available in Dim 25%, Dim 50%, Dim 75%, Dim 100%, Speed Fade FAST(5S), Speed Fade MEDIUM(1M) and Speed Fade SLOW(5M) mode.



Dim Mode Switch Settings:

Mode Selection	Dip Switch
Dim 25%	Dip Switch 1 "On"
Dim 50%	Dip Switch 2 "On"
Dim 75%	Dip Switch 3 "On"
Dim 100%	Dip Switch 4 "On"
Speed Fade FAST	Dip Switch 5 "On"
Speed Fade MEDIUM	Dip Switch 6 "On"
Speed Fade SLOW	Dip Switch 7 "On"

Troubleshooting

No Power to the pack:

Disconnect the main power line cord. Reconnect the line cord to ensure proper connection. If the problem still persists, check the building service panel and make sure the circuit breakers are on.

No Channel output:

Disconnect the main power line cord. Check the corresponding channel fuse (see replacing fuses section). Replace if blown. Reconnect line cord. If controlling via DMX, ensure that you are receiving DMX signal at the pack. Indicator in the display should be flashing when signal is present. If signal is not present, check the XLR connections from console or previous fixture in line. If problem still persists, replace XLR cable between previous device and pack and try again.

If you've tried the above and the unit continues to malfunction, please contact ELATION® customer service at (323) 582-3322, your unit will require service. Once you describe your problem to the customer service representative, you will be issued a return authorization number that must accompany the package when sent in. Please write this RA# on the outside of the box with a black marker and also write it on any packing list that may be included with the package.

Fuse Replacement

External Fuse Replacement: Disconnect the main power line cord.

Use a flat head screwdriver to remove the fuse holder cap. Pull out the old fuse and replace it with a new one of the exact same type. Replace the fuse cap with the flat head screw driver. Do not over tighten as this may result in a broken and unusable fuse holder.

Technical Specifications

Power Input:	AC120V, 60Hz
DMX In:	3-pin male XLR connector
DMX THRU:	3-pin female XLR connector
Fuse:	F6.3A, 250V 5x20mm
Load:	500W/120V
Dimension:	118 x 83 x 70(mm)
Weight:	1.2Kg

***Please Note:**

Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.