

DMX Relay

Operator's Manual



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Introduction



Thank you for reviewing this guide to the DMX Relay. The DMX Relay bridges the gap between AIM special effects equipment and the DMX Console. Inside, you'll find instructions for the DMX Relay, enabling and triggering via DMX, safe handling and storage procedures, and industry-proven best practices to ensure reliable, on-cue performance every time. If you ever need further assistance or have questions not covered herein, please contact us at:

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Symbols



Warning, possible hazards and care should be taken.



Warning, possible electrical hazards and care should be taken.



Warning, possible hazards (do not look down barrels.)



Read the manual for more information.



Warning, possible hazards and care should be taken (Danger, Keep Clear.)

Disclaimer

⚠ Failure to read and follow this manual may result in injury or death to persons and damage to property. We recommend erring on the side of caution and being vigilant when using special effect devices.

⚠ Wear personal protective equipment including gloves and glasses as needed around energized devices, such as pressurized cannons.

⚠ BigShots® are designed to operate at a maximum pressure of 125 PSI / 8.62 bar. Care should be taken when handling and firing a loaded launcher.

🔒 While the AIM BigShots® barrels have the ability to articulate in both the horizontal and vertical positions, please ensure that the barrels are in a fixed position and there is no looseness or play in them prior to launch. If it is found that the barrels are not stable and exhibit signs of being too loose, please contact AIM/manufacture in order to arrange for repair of the device.

🔒 **NOTE:** Overfilling the tank will activate the safety relief valve. If the relief valve does not operate by 150 PSI / 10.34 bar, replace the valve or have the device serviced before use. Operating BigShots® without a proper functioning safety valve may result in injury or death to persons and damage to property.



Technical Specifications

DMX Relay

Weight: 1 lb / 0.45kg

Size: 5.5in x 3in x 2.374in

139.7mm x 76.2mm x 60.3mm

Power: 110-250VAC | 50-60Hz

IP Rating: Water Resistant, Splashproof. (Do not submerge)

Electrical Draw: 1A Max (Fused)

Connector: PowerCON® TRUE1, 5-Pin DMX In/Out

Recommended Equipment: BigShots®, DMX Controller

Control: DMX

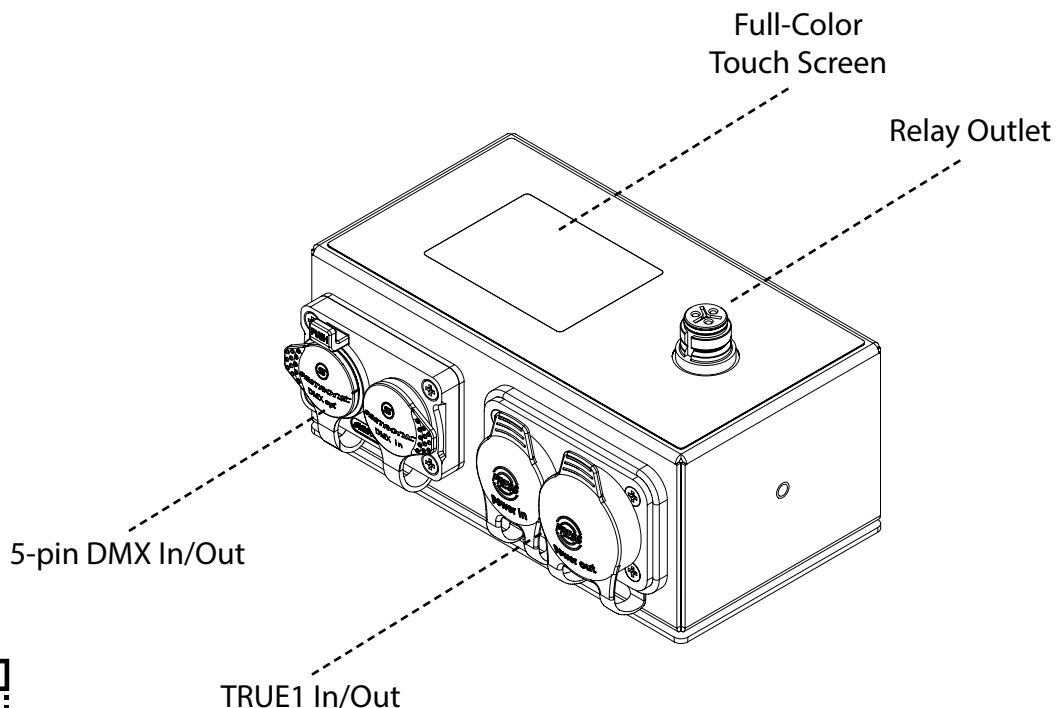
Shipping Method: UPS / FedEx

Shipping Container: Road Cases / Cardboard Boxes

Effects: Effect Control

Truss Mountable: No

Custom Installation Available: Yes



Relay Output Specifications

Relay output is an IP67 rated [Binder 720 Series](#) Connector. The DMX Relay is internally fused at 1A. To attach the connector to the DMX Relay, align the white line on the connector and receptacle. Press in to latch.

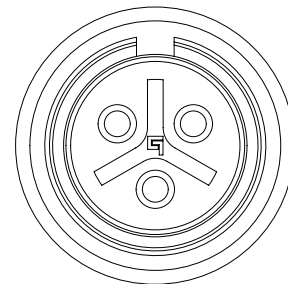
Cable connectors:
 Binder 99 9105 02 03 (wire-on to existing cable)
 Binder 79 9149 020 03 (Pigtail with leads)

Pin	Function
1	Neutral
2	Live
3	Earth

TOP VIEW RECEPTACLE

1 - NEUTRAL

2 - LIVE

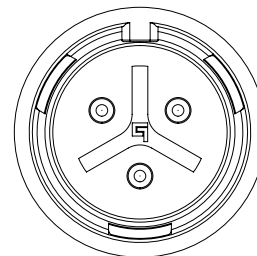


3 - EARTH

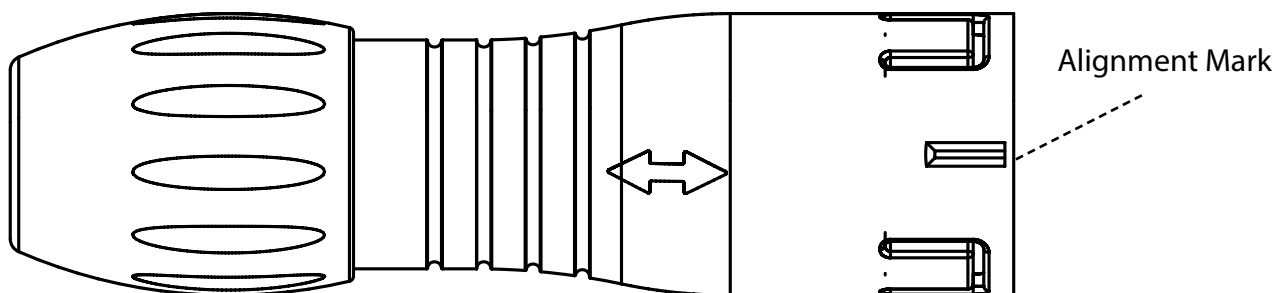
TOP VIEW CABLE

2 - LIVE

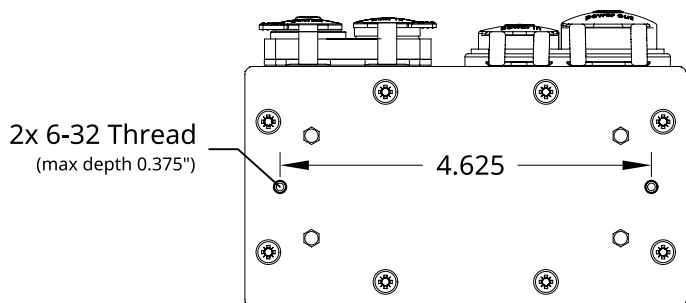
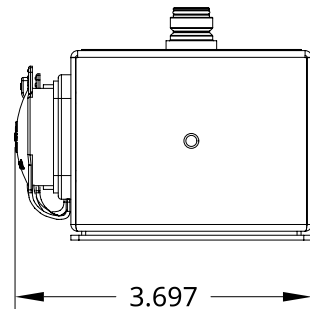
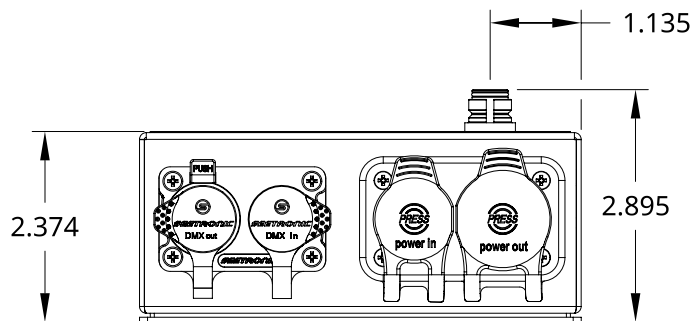
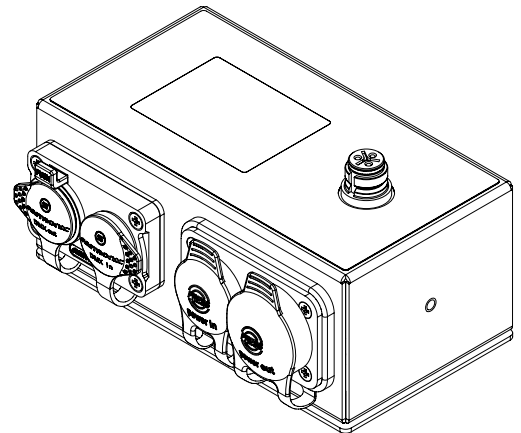
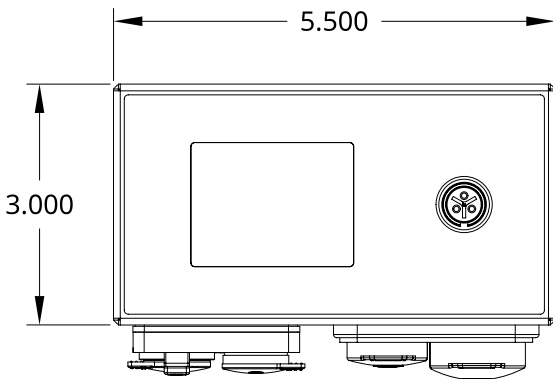
1 - NEUTRAL



3 - EARTH



Dimensions



Interface Overview

1. Channels

- Start (Trigger) Channel: the “start” address
- Enable Channel: the “enable” address
- Trigger channel and Enable channel are set independent from each other, but can be the same address if desired.

2. Trigger Values

- Start Channel: 255
- Enable Channel: 255

3. Visual State

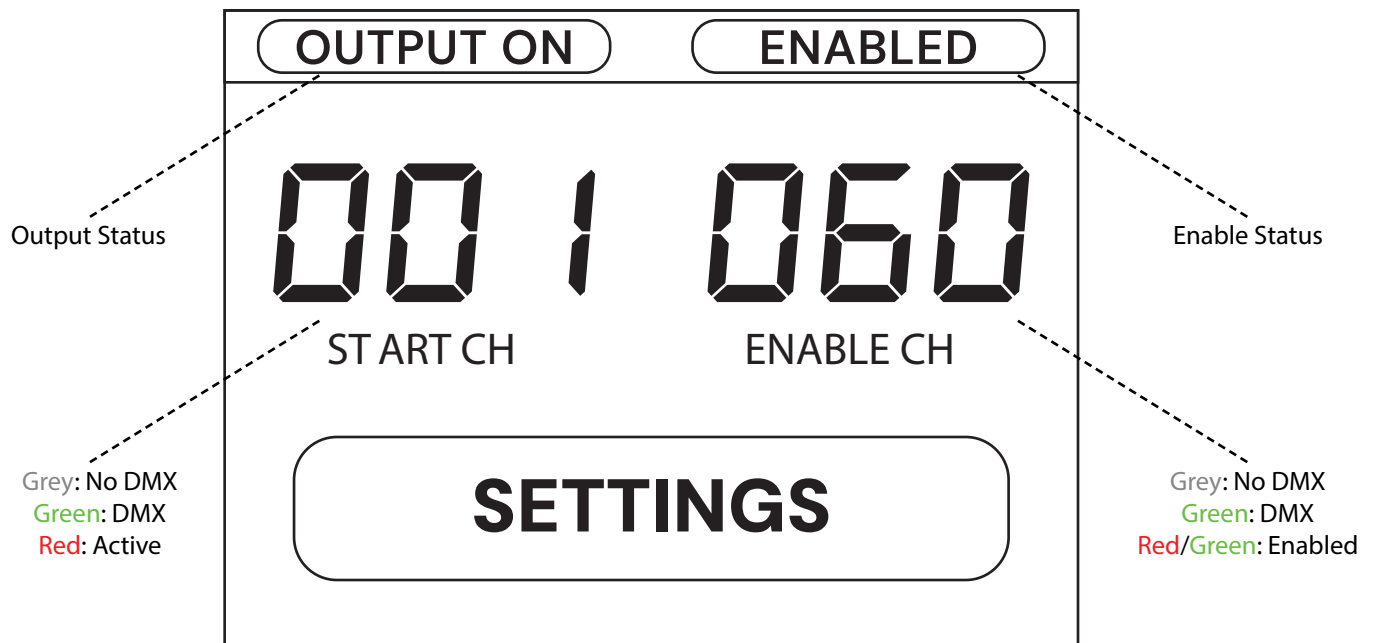
- No DMX: Both Addresses are GREY
- Receiving DMX (no channels active): Both Address Static Green
- Enable Channel at active value: Flashing Red & Green
- Trigger Channel at active value: Static Red

4. Top Bar Feedback

- Similar to the addresses the top bar shows current state on all pages.
- Grey: Inactive
- White: Active

5. Settings Page

- Assign Start Address and Enable Address



OUTPUT OFF

DISABLED

Start Address

00 1

Enable Address

06 0

BACK

Troubleshooting

Issue	Solution
Display Error	• Reboot via power cycle. • If issue persists, contact Artistry In Motion.
Unit Resetting While Triggering	• Make sure power supply is properly grounded. • If no earth ground is present, cease use immediately.
Outputs Not Triggering	• Ensure you are sending the correct DMX signal address. • Ensure DMX @ 255 (100%) is supplied to addressed channel. • Ensure DMX @ 255 (100%) is supplied to enable channel. • When unit is receiving valid DMX, the digits will be green.
Unit Does Not Power On	• Ensure supported voltage is being supplied (110-250v AC). • Supplying incorrect voltage can cause damage. • Check internal 1A fuse (On PCB). • If issue persists, contact Artistry In Motion.



Warranty

The equipment fabricated by Artistry In Motion, LLC® (AIM) is warranted to be free of defects in material or workmanship for 1 year from the date of delivery. Warranty does not extend to units subjected to misuse, abuse, neglect or accidental damage, or to units used in violation of manufacturer's operating instructions. Equipment which shows evidence of having been altered, modified or serviced without authorization, or which has had its serial number removed, will be ineligible for service under warranty. Repair, at our option, replacement or return of purchase price, will be made to any unit manufactured by AIM which proves to be defective during the warranty period, provided the unit is properly packed, with all transportation charges prepaid (insured for replacement value) and shipped to AIM at 19411 Londelius Street, Northridge, CA 91324. Warranty repairs to AIM manufactured goods are made without charge to the customer for parts or labor. This warranty extends to the original purchaser and is not transferable. Repair, replacement, or refund, as provided under this warranty, is the exclusive remedy of the customer. This warranty is expressly in lieu of all other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. No oral agreement, guarantee, promise, representation or other implied warranty shall be binding.

