BigShots®

Confetti Launcher

Operator's Manual

CE

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Introduction

Thank you for taking the time to familiarize yourself with this manual. BigShots® are portable, confetti or streamer launching devices in single barrel or double barrel configurations. BigShots® utilize a pressure vessel with electronic release valve to propel your confetti out of the barrel in the intended direction, up to 80ft / 24m. We will cover loading, firing, storage, and proper handling of the equipment as well as expectations and best practices. If you ever need further assistance or have questions not covered herein, please contact us at:

19411 Londelius Street

Northridge, CA 91324

Telephone: 818.994.7388

Email: confetti@artistryinmotion.com

https://www.artistryinmotion.com/contact-us/

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 or CO2 Tanks.

⚠ Carbon Dioxide, often referred to as CO2, is a gas frequently used in a liquid or solid state and can cause burns if it encounters skin. Always wear gloves when handling CO2 tanks and hoses.

⚠ 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/manufacturer 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

BigShots®: DOUBLE-BARREL

Weight: 50 lbs. / 22.68 kg

Size: 8in L x 16in W x 24in H

203mm L x 406mm W x 610mm H

Power: US - 110 VAC 60 Hz
EU - 230 VAC 50 Hz
(Optional: 24 VDC, 12 VDC)

Electrical Draw: .15 Amps
Connector: NEMA 5-15P Connector Standard
(Optional: Bare Wire)
Output Size (ID): ∅2.05in / 52mm

Recommended Equipment: Electrical Cords / Air Compressor / Control Box / Truss Clamps / Tripple Tap / Safety Cables / Ratchet Straps

Control: Remote / Light Board / Wireless

Shipping Method: UPS / FedEx / Freight Company

Shipping Container: Road Cases / Cardboard Boxes

Type of Confetti: Rectangle Sleeves, Square Sleeves, 2" Die Cut Sleeves and Streamer Sleeves

Confetti Height: 40ft–50ft / 12m–15m

Streamer Height: 65ft–80ft / 20m–25m

Effects: Single Shot

Truss Mountable: Yes

Custom Installation Available: Yes

Technical Specifications

BigShots®: SINGLE-BARREL

Weight: 33 lbs. / 15 kg

Size: 8in L x 8in W x 24in H
203mm L x 203mm W x 610mm H

Power: US - 110 VAC 60 Hz
EU - 230 VAC 50 Hz
(Optional: 24 VDC, 12 VDC)

Electrical Draw: .15 Amps

Connector: NEMA 5-15P Connector Standard
(Optional: Bare Wire)

Output Size (ID): ∅2.05in / 52mm

Recommended Equipment: Electrical Cords / Air Compressor / Control Box / Truss Clamps / Tripple Tap / Safety Cables / Ratchet Straps

Control: Remote / Light Board / Wireless

Shipping Method: UPS / FedEx / Freight Company

Shipping Container: Road Cases / Cardboard Boxes

Type of Confetti: Rectangle Sleeves, Square Sleeves, 2" Die Cut Sleeves and Streamer Sleeves

Confetti Height: 40ft–50ft / 12m–15m

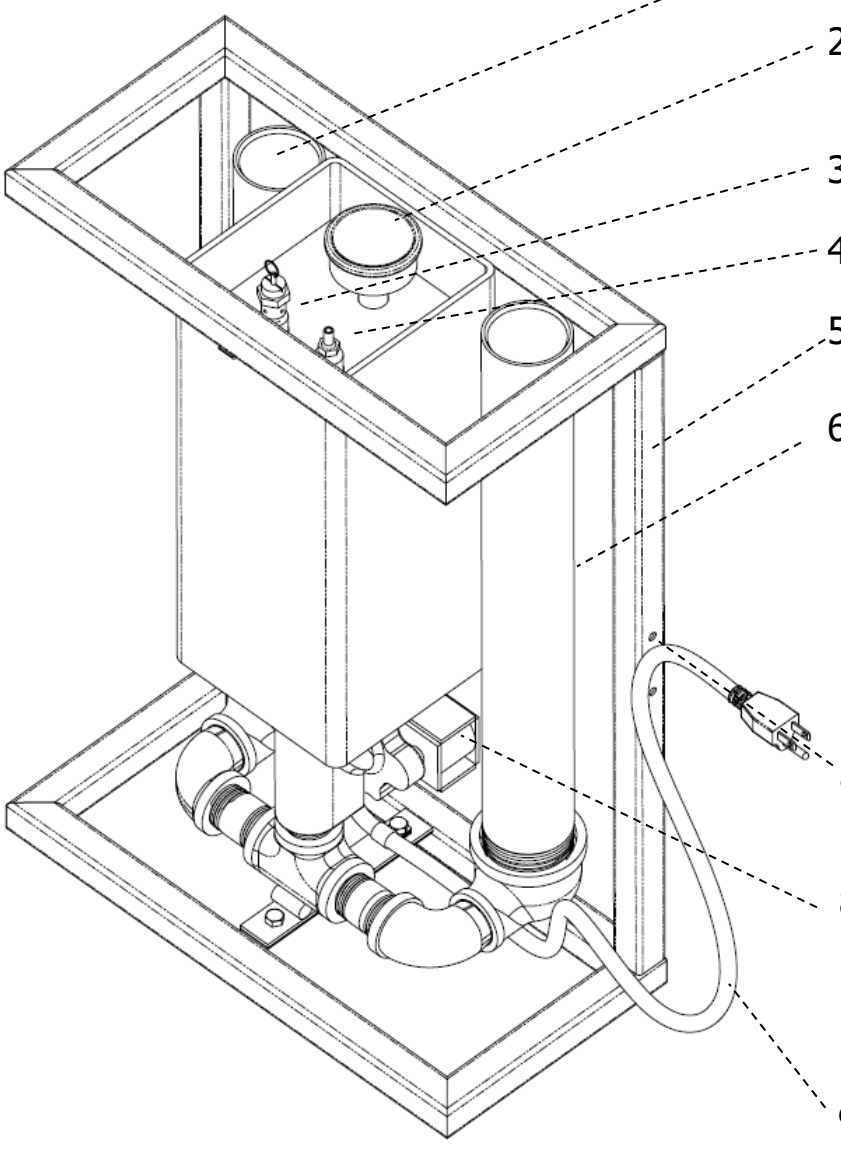
Streamer Height: 65ft–80ft / 20m–25m

Effects: Single Shot

Truss Mountable: Yes

Custom Installation Available: Yes

Technical Drawings



1) Output Barrel

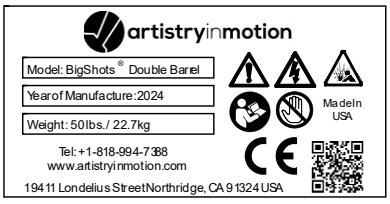
2) Pressure Gauge

3) Safety Valve (150 PSI/10.34 bar)

4) Air Input (Maximum 125 PSI / 8.62 bar)

5) Frame

6) Tank with Identification Label
(on back of unit)



7) Truss Clamp Attachment Point

8) Solenoid Coil

9) 110V Power Input

(all other options are bare wire)

Operating Procedure

1) Verify BigShots® confetti launcher is in working condition prior to use.
    a. Barrels are tight

    Note: 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 in order to arrange for repair of the device.
    b. Pressure gauge functions
    c. Safety Valve installed
    d. Solenoid Coil installed
2) Verify launcher is not connected to a power source, de-energized or isolated by some other means before continuing
3) Confirm barrels are empty by shining light down the barrel or by turning the launcher over to remove any debris before placing it right side up again
4) Enable launcher or reconnect to control system
5) Perform test fire with simulated show conditions by sending power to the coil with control system

    ⚠ *Note:* If the tank is empty, you will hear the valve click, if there is pressure in the tank it should release from the barrels when cued.
6) Again, verify launchers are not connected to a power source, de-energized or isolated by some other means before continuing
7) Insert Lifting Cup into barrel if necessary
    a. Push lifting cup to the bottom with a wooden broom handle or similar device
    b. Stop as soon as you feel slight resistance. Excessive force may cause lifting cups to become stuck in the elbow
8) Load barrels with confetti, streamers, or a combination by tearing one end of the sleeve open and pouring contents into barrel *Note:* If using a combination, we recommend loading confetti before streamers for best effect ⚠ Always remove product from plastic sleeve or another container, firing a sealed sleeve may become a dangerous projectile
9) Place a 2" compression cap over the open end of the barrel and secure by applying a single wrap of Artistry in Motion tape between the cap and the barrel. The Cap creates back pressure and prevents foreign objects from unknowingly entering the barrel

    Note: If other tape or too many wraps are used the device may not fire correctly. Our tape has been manufactured to have proper adhesion to secure the cap and allow the device to fire correctly when cued
10) Pressurize Launcher to desired level based on surroundings and desired effect

    Note: Maximum pressure is 125 PSI / 8.62 bar
11) After loading is complete, verify barrel angles are correct before enabling the launcher or reconnecting to control system
12) As soon as power is sent to the solenoid coil, the launcher will fire. We recommend actuating the valve open for 0.25 seconds for full effect but not more than 1 second

Recommendations

- Lifting Cups are great for adding height or distance to your effect
- Use low pressures (60 – 80 PSI / 4 – 5.5 bar) when firing short distances horizontally from truss, such as a banquet
- Compression caps can be used to secure loads during transit when pre-loading at the shop
- Avoid lifting cups during film shoots if there's a chance it will be seen on camera
- Delicate shapes or small sized confetti should be used with lower pressures to avoid tearing and damage
- Keep Launcher dry, cover if left outside overnight or in rain

Maintenance

- Wipe Launcher with soft cloth and mild cleaner to avoid damage to powder coating
- Dry Launcher as soon as possible to avoid unnecessary rust

Troubleshooting

- Launcher does not fire, confirm Solenoid Coil is fully seated on Stem and Stem is not bent
- Launcher will not build pressure, might need new diaphragm
- Launcher drops more than 5 PSI / 0.5 bar overnight, check all tank fittings with water for bubbles

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. Equipment sold as "used" is warranted to be free of defects in material or workmanship for 90 days. 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.

Certification

artistryinmotion

EU Declaration of Conformity

Declaration #: 20230910 is issued under the sole responsibility of the manufacturer:

Artistry In Motion, LLC
19411 Londelius Street
Northridge, CA 91324 USA
Tel#: 818-994-7388

BigShot® Confetti Launcher conforms with the CE-Mark directives and standards listed below.

Directives:

Electromagnetic Compatibility (2014/30/EU)
Low-Voltage (2014/35/EU)

Standards:

EMC: EN 55032 (CISPR 32:2015/A1&A11:2020)
EN 61000-4-2 (2009)
EN 61000-4-3 (2020)
EN 61000-4-4 (2012)
EN 61000-4-5 (2014/A1:2017)
EN 61000-4-6 (2023)
EN 61000-4-11 (2020/AC:2022)
Electrical Safety: EN 62368-1 (2024/A11:2024)

This product was tested by an ISO 17025 accredited laboratory.

By _____ Signature 01/20/2025 Date

Noah Winter
VP Operations
Artistry In Motion, LLC, USA

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