



Handheld Net Launcher

(Dual-Shot Version)

User Manual

NOTE: Read and follow all instructions carefully before use

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SAFETY WARNINGS AND PRECAUTIONS

WARNING: Risk of Electric Shock

- i. This device contains high-voltage energy storage components. Unauthorized disassembly or modification is prohibited. Only authorized maintenance personnel may disassemble the product. Complete discharge is required before any disassembly.

WARNING: Risk of Possible Injury

- ii. Close-range launching may cause possible injury to the target. This device is designed to restrain a single target. The recommended operating distance is 5–10 meters. Do not aim at the head. Ensure that the area within 2 meters of the target is clear of obstacles. Do not aim or launch at close range.
- iii. This is a security device exclusively for use by police officers, security personnel, and other authorized users in compliance with local laws and regulations. Use by minors is strictly prohibited.
- iv. Users must operate this device in compliance with all applicable local laws and regulations. It is designed solely for restraining individuals who pose an immediate threat to bodily harm or property damage. Its use against non-threatening persons or legally protected groups (such as children) is strictly prohibited. The user shall bear full responsibility for any legal consequences or personal injury or property damage resulting from the unauthorized use of this device in violation of the above provisions; the manufacturer shall not be held liable in any way.
- v. Professional training provided by the manufacturer or authorized institutions is required prior to operation.
- vi. This device achieves preliminary target restraint. For full target subdual, use it together with other security equipment including riot shields and restraint forks.
- vii. This device shall be kept in a dry, waterproof and moisture-proof environment. During transport, the equipment must be packed in a dedicated protective case;

Do NOT transport with corrosive materials or sharp tools. Store and keep the unit out of reach of persons under 18 years of age.

- viii. This device has a designed service life of 4 years or 1,000 launches, whichever comes first. It is recommended to keep a usage and maintenance log for each unit and perform regular full functional inspections.
- ix. The product and its packaging are subject to continuous improvement and updates. The latest specifications are subject to the actual product delivered. Such improvements are not intended to compromise on product performance or core functions.

CHAPTER 1: PRODUCT OVERVIEW

The ZanX Handheld Net Launcher is a non-contact restraint device designed for diverse scenarios including law enforcement (in compliance with local laws and regulations), public security, residential security, outdoor animal management, and drone capture.

1.1 CORE FEATURES: INNOVATIVE POWER-DRIVEN LAUNCH ENABLES MULTI-SCENARIO DEPLOYMENT

The device is equipped with a self-developed power ejection module and net-capture launch system. It features an innovative rear-loading design and incorporates core technology for continuous launching, achieving a technological breakthrough and providing a reliable solution for non-contact restraint.

1.1.1 Technological Innovation, Performance Breakthrough

Leveraging self-developed power ejection technology, the device achieves continuous launching within 2 seconds, shortening emergency response time, improving target restraint success rates and on-site handling efficiency. As a rear-loading net launcher, this device features a simple and efficient net-capture replacement process. Meanwhile, it supports expansion to any multi-launch configuration, laying a solid technical foundation for product iteration, and functional expansion.

1.1.2 Tactical Range, Safe Distance

The net's initial velocity reaches 32 m/s¹, forming a 360° entangling restraint on targets within a 5-10 meters range. This non-contact restraint effectively limits target movement. Combined with the design of 2-second continuous launching of dual nets, it achieves dual restraint, further increasing the success rate of target restraint and laying the groundwork for subsequent control and capture.

1.1.3 Humane Restraint, Minimized Risk

Utilizing a purely physical net-capture method, the net structure ensures stable restraint. While effectively controlling the target, it minimizes the risk of injury and the severity of any

¹ Figures such as maximum speed and operating range are derived from laboratory tests. Actual performance may vary depending on ambient temperature, wind conditions, usage patterns, and battery performance.

harm, better aligning with the requirements of humane law enforcement and safe incident management.

1.1.4 Exceptional Reliability, Minimal Maintenance

The device has a design lifespan of up to 4 years or 1,000 effective launches. Equipped with a high-performance battery, a single full charge enables the device to perform over 50 consecutive launches, and the battery is rechargeable, meeting the demands of high-frequency training and emergency response.

1.1.5 Designed for Extreme Environments

The device is portable and lightweight, with recoil-free launch and low noise, making it suitable for extended outdoor use as well as in noise-sensitive and public-opinion-sensitive locations. Battery endurance remains stable within the temperature range of -10°C to 60°C². It can withstand intense UV exposure, meeting the demands of prolonged outdoor duty.

1.2 APPLICATION SCENARIOS: MULTI-DOMAIN SECURITY SOLUTIONS

Multi-Scenario Adaptability: Law Enforcement + Public Security + Residential Security + Outdoor Animal Management³ + Drone Capture

1.2.1 Law Enforcement Applications (in compliance with local laws and regulations)

For high-risk scenarios such as disorderly conduct, alcohol-related disturbances, or sudden loss of control by individuals with mental health conditions, law enforcement personnel can achieve non-contact, precise restraint of primary instigators from a medium-to-long range (5 to 10 meters). This reduces the risk of personal injury and mitigates potential public scrutiny or controversy related to law enforcement actions.

1.2.2 Public Security Applications

This device is ideal for security personnel in high-density crowd areas and locations with vulnerable populations, such as campuses, hospitals, and financial institutions. In the event of sudden intrusion or violent conflict, security personnel can deploy the device rapidly to

² Based on standardized high- and low-temperature environmental chamber testing, the battery pack maintains over 90% of its rated discharge performance and range even under extreme temperature conditions.

³ For small and medium-sized animals only, with a recommended body length of 30 cm ≤ size ≤ 50 cm. The use of this device on legally protected animals or large highly aggressive animals is strictly prohibited. The same applies hereinafter.

restrict individuals with threatening behavior, meanwhile using riot shields, restraint forks, and other security equipment to fully contain threats, prevent escalation of incidents, and ensure public safety.

1.2.3 Residential Security Applications

As an emergency defensive tool for residential security, it is designed to respond to illegal intrusion or violent threats. The device enables non-contact restraint from a safe distance, temporarily restricting an intruder to gain critical time for escape or to await emergency assistance.

1.2.4 Outdoor Animal Management

The device can be used for lawful hunting and necessary animal management. It enables safe, non-contact restraint of low-aggressiveness animals intruding into human activity zones, eliminating the risk of defensive reactions caused by direct physical contact. This reduces injury to animals during capture and facilitates subsequent health checks, handover and relocation.

1.2.5 Drone Capture

For unauthorized drones entering restricted airspace or private premises, this device can achieve interception, preventing the possible privacy leaks, security risks, and public order disruptions.

CHAPTER 2: PRODUCT STRUCTURE

2.1 PRODUCT COMPONENTS



Figure 1: Product Component Diagram

NOTES:①Battery Indicator Button ②Power Switch ③Charging Port ④Trigger ⑤Ejection Port ⑥Net Case Compartment ⑦Net Case Change Latch ⑧Shoulder Strap Mount ⑨Accessory Rail ⑩Power Ready Indicator ⑪Kinetic Ready Indicator ⑫Net Ready Indicator ⑬Battery Level Indicators ⑭Battery Status Indicator ⑮Net Case ⑯Traction Heads ⑰Capture Net ⑱Charging Light

2.2 COMPONENT DESCRIPTION

- ①Battery Indicator Button (Red): Press to activate the battery status indicators.
- ②Power Switch (White): Master power control.
- ③Charging Port: TYPE-C, use for the lithium-ion battery charger.
- ④Trigger: Launching switch, trigger for net deployment.
- ⑤Ejection Port: Entrance and exit for placing Net Cases and throwing out empty Net Cases.

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- ⑥ Net Case Compartment: The location for storing the Net Case on the main unit.
 - ⑦ Net Case Change Latch: Open or close Net Case Compartment.
 - ⑧ Shoulder Strap Mount: Attach the shoulder strap to the main unit.
 - ⑨ Accessory Rail: Mounting point for optional accessories (e.g., strobe light, sight).
 - ⑩ Power Ready Indicator (Red): Illuminate when the device is powered on.
 - ⑪ Kinetic Ready Indicator (Blue): Illuminate when the device is ready for launching.
 - ⑫ Net Ready Indicator (Green): Illuminate when a Net Case is correctly loaded and locked.
 - ⑬ Battery Level Indicators (Blue): Display remaining battery power. Each light represents approximately 25% charge.
 - ⑭ Battery Status Indicator (Red): Solid Red: Normal. Off: Battery failure or abnormality.
 - ⑮ Net Case: Detachable module for pre-loading and storing the Capture Net.
 - ⑯ Traction Heads: Kinetic energy units located at the four corners of the Capture Net.
 - ⑰ Capture Net: Made from an Ultra-High Molecular Weight Polyethylene (UHMWPE) mesh grid.
 - ⑱ Charging Light: Red when charging, and green when fully charged.

2.3 PERFORMANCE SPECIFICATIONS⁴

Item	Specifications
Product Name	ZanX Net Launcher Dual-Shot Version
Product Model	JC-DNG-06
Product Dimensions	460mm × 55mm × 130mm (18.11in × 2.16in × 5.12in)
Net Weight	1.6kg (3.53lbs)
Packaging Material	Kraft Paper Box and EPE Foam
Carton Dimensions	505mm × 229mm × 128mm (19.88in × 9.02in × 5.04in)

⁴ All parameters are laboratory test results under standard conditions. Actual values may vary slightly due to temperature, operation, or usage habits. Product features and specifications are subject to continuous improvement; please refer to the actual product delivered. In addition, dimensional data are measured manually with a normal tolerance of ±5mm.

Gross Weight	2.5kg (5.51lbs)
Traction Head Quantity	4 Pieces
Traction Head Material	Silicone-Encased Metal Tip
Mesh Grid Size	15 cm × 15 cm
Effective Range	5m ~ 10m
Net Area	2.25m × 2.25m
Net Material	Ultra-High Molecular Weight Polyethylene
Main Unit Material	High-Quality ABS Plastic
Net Tensile Strength	120N
Continuous Launching Capacity	50+ Launches per Full Charge
Battery Capacity	12.6V, 2500mAh
Charging Port	5V DC, 2A, Type-C
Operating Temperature Range	-10°C ~ 60°C

CHAPTER 3: OPERATING INSTRUCTIONS

3.1 PRE-USE CHECKS

Inspect packaging for damage or compression marks.

Verify contents against accessory list. The standard package includes: Net Launcher main unit, 4 Net Cases, Charging Cable, Shoulder Strap, Warning Notice, Product Manual, Warranty Card.

Core Component Status Check:

- Check casing for cracks or deformation.
- Verify switches and controls operate smoothly (no jamming or looseness).
- Verify Net Case is intact.

3.2 FIRST CHARGING OPERATION

The device is preset to the protective charge level⁵.

Charging Indicators:

- Solid red light: Charging in progress.
- Solid green light: Charging complete.
- Flashing red or no light: STOP charging and troubleshoot immediately.
- Avoid overcharging the battery to prevent damage or potential safety hazards.

3.3 DEVICE LAUNCHING

3.3.1 Launching Preparations

Operational Environment Assessment:

- Ensure no unauthorized personnel are present in the launch area (especially children, the elderly).
- Clear all obstacles from launch path to prevent net trajectory deflection.

Battery Level Check:

- Verify remaining battery power via battery indicators.
- Disconnect charger before operation.

⁵ The product ships with approximately 70% pre-charged battery. A gradual decrease in power during transportation or storage is normal.

3.3.2 Core Components Verification

- Confirm the main unit with no visible damage.
- Verify switches and controls operate smoothly (no jamming or looseness).
- Verify Net Case is intact.

3.3.3 Install Net Case

3.3.3.1 Install Net Case

Ensure the power is off. Pull the Net Case Change Latch to fully open the Net Case Compartment. Insert the Net Cases with their narrow ends facing forward, placed parallel into the compartment. After inserting 2 Net Cases in sequence, return the Net Case Change Latch to its original position.

3.3.3.2 Installation Verification

After installation, verify the Net Case status again in an open area. Turn on the power.

- If the Net Ready Indicator (green) lights up, the Net Cases are installed correctly.
- If the green light is off, a fault has occurred. Please repeat the installation procedure or contact after-sales service.

3.3.4 Launching Initiation

3.3.4.1 Power ON

Press Power Switch (White), and verify Power Ready Indicator (red), Kinetic Ready indicators (blue) and Net Ready Indicator (green) are on.

3.3.4.2 Target Aiming

Position 5-10 meters directly in front of the target, hold Net Launcher with both hands, and aim at the upper-middle part of the target.

3.3.4.3 Net Launching

Confirm the target aim, press Trigger. The Capture Net will eject from the launch port and cover the target.

3.3.4.4 Remove the Spent Net Case

Pull the Net Case Change Latch. The spent Net Case is automatically ejected, and the second Net Case automatically moves into place.

3.3.4.5 Net Launching Again (Optional)

After confirming the target is aimed, press the Trigger. The Capture Net ejects from the

launch port. Pull the Net Case Change Latch to remove the spent Net Case.

3.3.5 Turn off the power switch immediately after launching.

CHAPTER 4: MAINTENANCE AND CARE

4.1 DEVICE MAINTENANCE

- Wipe the main unit with a clean, dry soft cloth to remove dust and debris, then store the device in its original sealed protective case.
- Keep charging port, power switch, and other interfaces dry.

4.2 LONG-TERM STORAGE

- Dry, ventilated environment.
- AVOID: damp, high-temperature, or flammable/explosive areas.
- Inaccessible to children.
- Fully charge the battery before long-term storage to prevent power capacity degradation. Recharge every 2 months to maintain battery activity.

4.3 DEVICE DISPOSAL

- Comply with the regulations of your country/region for electrical product and battery recycling.
- Ensure operational compliance and safety to avoid risks of electric shock or environmental pollution.

CHAPTER 5: WARRANTY AND AFTER-SALES SERVICE

5.1 WARRANTY INFORMATION

5.1.1 Warranty Period

This device is covered by a 1-year free warranty (commencing from the date of customer purchase).

During the warranty period, free repair services are provided for main unit malfunctions caused by non-human factors upon presentation of valid purchase certificate.

5.1.2 Exclusions from Free Warranty Coverage

Consumables and Wear Parts: Net Case, Shoulder Straps, and similar components classified as consumables. Normal wear, aging, or damage to these items is not covered under the free warranty.

Man-made and Accidental Damage: Device malfunctions caused by improper operation, unauthorized disassembly/modification, dropping, collision, liquid ingress, use of non-original accessories, or failure to follow this user manual are not eligible for free repair services.

Serial Number Alteration: Warranty is void if the unique serial number (SN) of the device has been altered, defaced, or destroyed.

Liability Limitation: Warranty coverage is limited to the device itself and does not extend to any direct or indirect commercial losses or personal injury resulting from misuse or operation by untrained personnel.

5.2 AFTER-SALES SERVICE CHANNELS AND PROCEDURES

5.2.1 Service Channels

Regions with Authorized Agents: Priority should be given to contacting local authorized distributors or service centers, which provide testing, repair, and replacement services.

Regions without Authorized Agents: Please contact the manufacturer's after-sales service center directly.

5.2.2 Manufacturer Service Process

Remote Troubleshooting: Upon contacting customer service, remote technical support will be provided to assist in fault diagnosis.

Product Return for Repair: If factory repair is required, we will provide the return address and specific shipping instructions. Please ship the product requiring service to the designated after-sales address.

5.3 CONTACT INFORMATION

Official Website: www.zanxglobal.com

After-Sales Email: support@zanxglobal.com

Business Inquiry Email: hello@zanxglobal.com

Distributor Inquiry: Please visit the official website at <http://www.zanxglobal.com> to find information about local authorized distributors.

END OF MANUAL

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