



ZanX Net Launcher (handheld) - User Manual

NOTE: Read and follow all instructions carefully before use

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SAFETY WARNINGS AND PRECAUTIONS

WARNING: Risk of Electric Shock

This product 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

Close-range launching may cause possible injury to the target. This product is designed to restrain a single target. Recommended use distance: 5 to 10 meters.

- Aiming at the head or neck is PROHIBITED
- Ensure 2-meter clearance around the target
- Close-range aiming and launching are STRICTLY PROHIBITED

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.

Users must operate this product 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.

Professional training provided by the manufacturer or authorized institutions is required prior to operation.

Operational Guidelines:

- This device achieves preliminary target restraint
- For complete restraint, use in conjunction with riot shields, batons, and other security equipment
- Capture nets can be reused in training scenarios (replacement based

on the wear and tear)

- In practical scenarios, single-use is recommended to prevent failures

Storage Requirements:

- Store in a dry environment with strict waterproofing and moisture-free protection
- During transport, use the designated protective case
- Do NOT transport with corrosive materials or sharp tools
- Store in a locked container inaccessible to children under 18

Service Life:

- Designed service life: 4 years or 1,000 effective launching (whichever occurs first)
- Establish a usage and maintenance record for each device, and conduct full function inspections on a regular basis

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 Kinetic 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 net capture.

1.1 CORE FEATURES: INNOVATIVE POWER-DRIVEN PRECISION PERFORMANCE

The product features a self-developed power ejection module and net launching device, achieving significant technological breakthroughs.

1.1.1 Instant Capture Technology

- Utilizes electromagnetic induction for precise energy control
- Instantaneous release with 22m/s¹ initial launching velocity
- Rapid 360° entanglement around target
- Effective restraint while minimizing injury risk

1.1.2 Long-lasting Battery Performance

- High-performance battery: 50+ consecutive launching per charge
- For high-frequency training and emergency
- Broad operating temperature range: -20 °C to 60 °C²
- Optimized for extended outdoor duty

1.1.3 Controllable Maintenance Costs

- Cost-effective maintenance: rechargeable battery and reusable training nets minimizing maintenance and consumable costs
- In training scenarios, nets support reuse

1.1.4 Environmental Adaptability

- High-performance rechargeable battery with extended cycle life for sustainable operation
- Durable, reusable net construction minimizes environmental impact

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.

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.

- Electromagnetic drive technology provides noise-controllable performance for venues sensitive to noise.

1.2 APPLICATION SCENARIOS: MULTI-DOMAIN SECURITY SOLUTIONS

Multi-Scenario Adaptability: Law Enforcement + Public Security + Residential Security + Outdoor Animal Management³ + Drone Net 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 restrict individuals with threatening behavior, meanwhile using riot shields, batons, 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.

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

1.2.4 Outdoor Animal Management

The device can be used for lawful hunting and necessary animal management. It provides safe, non-contact restraint of less aggressive animals that intrude into human activity areas, so as to avoid direct contact that may provoke their defensive responses. This reduces injury to animals during capture and facilitates subsequent health checks, handover and relocation.

1.2.5 Drone Net 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

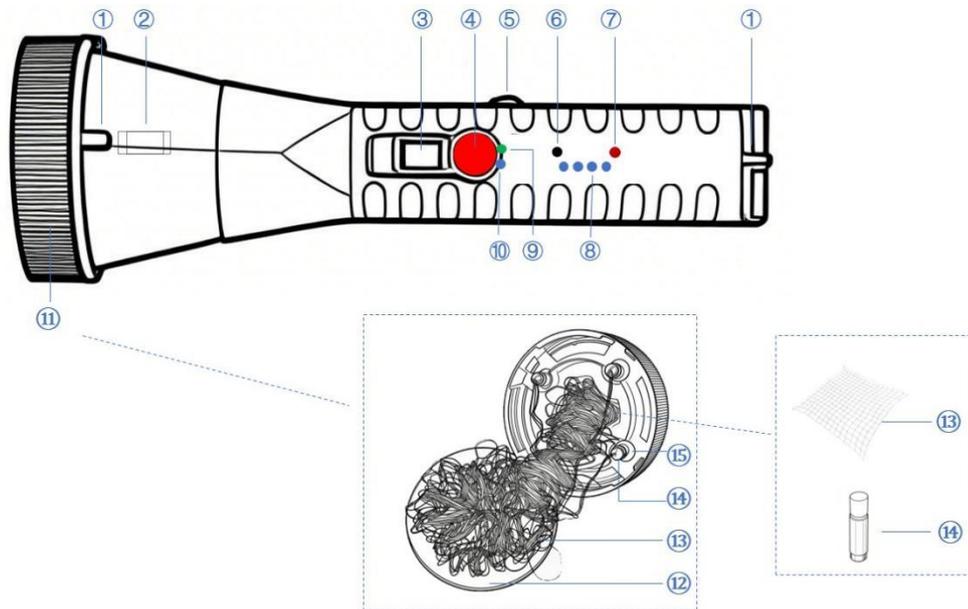


Figure 1: Product Component Diagram

NOTES: ①Shoulder Strap Mount ②Accessory Rail ③Safety / Power Switch ④
Launching Switch ⑤Charging Port ⑥Battery Indicator Button ⑦Battery status
Indicator ⑧Battery Level Lights ⑨Net Ready Indicator ⑩Power Ready
Indicator ⑪Net Case ⑫Baffle Plate ⑬Capture Net ⑭Traction
Heads ⑮Traction Head Slots

2.2 COMPONENT DESCRIPTION

①Shoulder Strap Mount: Attach the shoulder strap to the main unit.

②Accessory Rail (Rear): Mounting point for optional accessories (e.g. strobe light, sight).

③Safety / Power Switch (White): Master power control. “-” = ON, “O” = OFF.

④Launching Switch (Red): Trigger for net deployment.

⑤Charging Port: Use for the lithium-ion battery charger.

⑥Battery Indicator Button (Black): Press to activate the battery status/level indicators.

⑦Battery Status Indicator (Red): Solid Red: Normal. Off: Battery failure or abnormality.

⑧Battery Level Indicators (4x Blue): Display remaining battery power. Each light represents approximately 25% charge.

⑨Net Ready Indicator (Green): Illuminate when a Net Case is correctly loaded and locked.

- ⑩ Power Ready Indicator (Blue): Illuminate when the device is powered on.
- ⑪ Net Case: Detachable module for pre-loading and storing the Capture Net.
- ⑫ Baffle Plate: Secure the Capture Net within the Net Case.
- ⑬ Capture Net: Made from an Ultra-High Molecular Weight Polyethylene (UHMWPE) mesh grid.
- ⑭ Traction Heads: Kinetic energy units located at the four corners of the Capture Net.
- ⑮ Traction Head Slots: Recesses within the Net Case that secure the traction heads in place

2.3 PERFORMANCE SPECIFICATIONS⁴

Item	Specifications
Product Name	ZanX Net Launcher (Handheld)
Product Model	JC-NG-03
Dimensions	365mm × 118mm × 118mm (14.4 × 4.6 × 4.6 inches)
Weight	≤1.25kg (2.76 lbs)
Traction head Quantity	4 pieces
Traction head Material	Silicone-encased iron core
Mesh Grid Size	15cm × 15cm / 10cm × 10cm
Effective Range	5m to 10m
Net Area	2.4m × 2.4m
Net Material	Ultra-High Molecular Weight Polyethylene
Main Unit Material	High-quality ABS plastic
Net Tensile Strength	150N

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.

Continuous Launching Capacity	≥50 consecutive launching per full charge
Battery Capacity	12.6V, 2500 mAh
Plug Specification ⁵	Flat two-pin plug (GB 1002-2021 standard)
Charging Time	4 hours
Charging Voltage	100V to 240V AC
Operating Temperature (Low)	-20°C
Operating Temperature (High)	60°C

⁵ Plug configurations may vary by region. Please refer to the contents included in the actual product package.

CHAPTER 3: OPERATING INSTRUCTIONS

3.1 PRE-USE CHECKS

Inspect packaging for damage or compression marks

Verify contents against accessory list, standard package includes: Net Launcher main unit · 3 Net Cases (1 pre-loaded, and 2 additional) · Charging Device · 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 Cases intact
- Ensure Traction Head Slots fully engage with the main unit

3.2 FIRST CHARGING OPERATION

The device is preset the protective charge level⁶. Use ONLY original charger when battery is low⁷. Charging time: approximately 4 hours. **WARNING:** Non-original chargers may cause damage or safety hazards.

Charging Indicators:

- Solid red light: Charging in progress
- Solid green light: Charging complete
- Flashing red or no light: STOP charging and troubleshoot immediately

3.3 DEVICE Launching

3.3.1 Launching Preparations

Operational Environment Assessment:

- Confirm no unauthorized personnel in launching area (especially children, the elderly)
- Clear all obstacles from launching path to prevent net trajectory deflection

Battery Level Check:

⁶ The product ships with approximately 70% pre-charged battery. A gradual decrease in power during transportation or storage is normal.

⁷ Check the remaining battery level using the indicator lights. One illuminated light means approximately 25% battery remains, and should be charged immediately.

- Verify remaining battery power via battery indicators
- DO NOT operate while charging
- Disconnect charger before operation

3.3.2 Core Components Verification

- Confirm the main unit with no visible damage
- Verify the internal capture net in the Net Case is properly installed
- Replace the Net Case immediately if traction head displacement or loose engagement is detected

3.3.3 Launching Initiation

3.3.3.1 Target Aiming

Position 5-10 meters directly in front of the target, hold Net Launcher with both hands, and aim horizontally at target's chest/abdomen.

3.3.3.2 Power Activation

Press white power switch button (-), and verify both Power Ready Indicator (blue) and Net Ready Indicator (green) are on.

3.3.3.3 Net Launching

Confirm the target aim, press red launching button. The restraint net will eject from the launch port and cover the target.

3.3.4 IMMEDIATELY turn off power switch after launching

3.4 CONSUMABLES REPLACEMENT

3.4.1 Remove Empty Net Case

- Confirm power switch is OFF
- Hold device with left hand
- Right thumb against Net Case outer surface
- Pull outward diagonally to remove the empty Net Cartridge with other fingers

3.4.2 Install New Net Case

- Hold Net Launcher vertically (launch hole up) with left hand
- Align new Net Case protrusion with main unit groove
- Tap baffle plate with right hand to ensure proper seating

- Ensure all 4 traction heads fully loaded into slots

3.4.3 Installation Verification

- After replacement, verify in open area
- Turn on power switch
- Both blue (power ready) and green (net ready) indicators should illuminate/be on
- If green light OFF: Indicates a malfunction. Please repeat the replacement procedure or contact after-sales service.

3.5 NET RETRIEVAL

Training Scenario Retrieval: If the wear and tear of consumables is minimal (no loose threads or breaks), retrieval for training use is permitted.

3.5.1 Organize Net Body

Pair work is recommended to detach all traction heads, stretch net corners into square formation, and reattach four traction heads to net corners in sequence.

3.5.2 Inspect Capture Net

Verify all four traction heads are securely fastened, ensure net surface fully extended (no tangles), and check net body and traction heads for damage.

3.5.3 Tidy up Net Bundle

Operator A holds all traction heads (maintain relative position), while operator B tidies net into neat bundle and prepares an empty Net Case.

3.5.4 Coil Net into Cartridge

Operator B holds empty Net Cartridge (left hand), coils net with right hand from bottom up in layers, insert less than 10cm length per coil into the center conical ring of Net Cartridge.

3.5.5 Insert Traction Heads

Pause when 5cm remains (near traction heads) . Operator A places traction heads into slots in alignment. Operator B inserts remaining 5cm into Cartridge while ensuring no net lines protrude from edges.

3.5.6 Close Baffle Plate

Securely close baffle plate, and the net retrieval and loading process is completed.

CHAPTER 4: MAINTENANCE AND CARE

4.1 DEVICE MAINTENANCE

- Wipe main body with dry soft cloth to remove dust and stains, and store in original sealed case
- Keep charging port, power switch, and other interfaces dry
- Fold and store the net in a dedicated case to avoid direct sunlight (prevent from deterioration)

4.2 LONG-TERM STORAGE

- Dry, ventilated environment
- AVOID: damp, high-temperature, or flammable/explosive areas
- Inaccessible to children
- Fully charge 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: TROUBLESHOOTING

Common Issues	Possible Causes	Solution
Power Ready Indicator (Blue) not ON	Battery depleted (from extended non-use)	Charge fully with original charger
Net Ready Indicator (Green) not ON	Traction heads improperly installed	Turn off power switch, remove baffle plate, and properly install all 4 traction heads
Unable to charge	Non-original charger used	Use original charger
	Poor connection (loose plug)	Properly connect charger with port
	Power supply / socket malfunction	Try different functional socket
	Low-temp battery protection	Restore at room temperature for 30 min, and retry
Net Launching failure	Traction heads crossed during installation	Turn off power switch, and reload traction heads in correct sequence
	Traction head silicone pad falling off	Turn off power switch, and replace the silicone pad with a new one
	Launch hole clogged	Turn off power switch, inspect silicone pad, and clean the launch hole

CHAPTER 6: WARRANTY AND AFTER-SALES SERVICE

6.1 WARRANTY INFORMATION

6.1.1 Warranty Period

This product 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.

6.1.2 Exclusions from Free Warranty Coverage

Consumables and Wear Parts: Capture Nets, Baffle Plates, Traction Heads, 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 resulting from improper operation, unauthorized disassembly or modification, dropping, collision, liquid ingress, use of non-original accessories, or failure to follow the user manual are not eligible for free repair services.

Serial Number Alteration: Warranty is void if the unique serial number (SN code) 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.

6.2 AFTER-SALES SERVICE CHANNELS AND PROCEDURES

6.2.1 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.

6.2.2 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, customer the return address and specific shipping instructions will be provided. Please ship the product requiring service to the designated after-sales address.

6.3 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 www.zanxglobal.com to find information about local authorized distributors.

END OF MANUAL

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