

Military Compass
Type **97**



Military Compass Type 97



► General Description

Military Compass Type 97 provides powerful, compact, lightweight and reliable performance in harsh environments. In addition to military applications, it also can be used for hiking, exploring, camping and outdoor sports.

► Features

- High-strength aluminum alloy body, strong, lightweight and compact.
- Waterproof design, can withstand the test of harsh environment.
- With leather pocket for easy carrying.
- Pointer coated with fluorescent material, easy to use at night.
- Multi-purpose hooks for easy map charting operations.
- High sensitivity magnetic pointer.
- Plus or minus 1 mil azimuth accuracy.
- Sight range finder with an accuracy of 5%.
- Tilt angle measuring with an accuracy of plus or minus 2.5 degrees.
- Analog distance meter with an accuracy of 1%
- Build-in coordination ruler with accuracy up to 0.5 mm.

7 × 40 Binoculars Type 95



7 × 40 Binoculars Type 95



► General Description

The 7 × 40 binoculars (hereinafter referred to as 7× Binoculars) with reticles has clear field of the view, high brightness, good image quality, better color accuracy and wide range of application. It can be used in all weather conditions.

► Principal Data

Magnification	7×
Field of View	8°
Diameter of Exit Pupil	5.71 mm
Eye Relief	22.2 mm
Interpupillary Adjusting Range	±5 mm
Net Weight (Binocular Only)	≤1 kg
Total Weight	≤1.8 kg
Dimension	(189 ~ 199) × 69 × (140 ~ 147) mm

8 × 30 Binocular Type 1962



8 x 30 Binocular Type 1962



► General Description

The 8× binoculars is used for observation and direction. The angle between two targets can be estimated by the reticules in the right barrel. And the distance from observer and the target also can be calculated if the dimension of the target is known.

► Principal Data

Magnification	8×
Field of View	8°20'
Diameter of Exit Pupil	3.7 mm
Eye Relief	11.2 mm
Interpupillary Adjusting Range	54 ~ 74 mm
Net Weight (Binocular Only)	0.68 kg
Total Weight	1.15 kg
Dimension	(148 ~ 168.5) × 55 × (120 ~ 125) mm

Detection Robot



Detection Robot



▶ General Description

The detection robot is used in various terrains and environment such as jungle, sand soil, gravel, icy and rainy areas and so on.

High mobility with the maximum speed up to 2 m/s.

▶ Features

- High terrain adaptability and capable of entering various complex environment for operation.
- Compact size and high mobility.
- Rainproof and anti-shock design, highly durable.

▶ Principal Data

<u>Overall Dimensions</u>	680 × 410 × 200 mm
<u>Maximum</u>	2 m/s
<u>Working</u>	Max. 2 hours
<u>Weight</u>	~ 24 kg
<u>Obstacle Passing Capability</u>	200 mm height barriers or 30° slope
<u>Platform Loading Capacity</u>	20 kg

Omnidirectional Mobile Inspection Robot



Omnidirectional Mobile Inspection Robot



► General Description

The inspection robot is the first one that adopts omnidirectional mobile technology. The robot features compact size, light weight and is easy to carry.

The robot is mainly used to inspect the chassis of suspicious vehicle.

► Principal Data

<u>Overall Dimensions</u>	420 × 420 × 120 mm
<u>Moving Velocity</u>	any direction ≥ 1 m/s, spinning around ≥ 90°/s
<u>Remote Control Distance</u>	≥ 50 m
<u>Camera</u>	high definition infrared night vision CCD camera
<u>Lighting</u>	high brightness LED × 6
<u>Weight</u>	~ 6.3 kg
<u>Obstacle Passing Capability</u>	15° slope
<u>Working Hours</u>	≥ 2 hours
<u>Lens</u>	160° wide-angle fixed lens
<u>Remote Controller Display</u>	800 × 600 pixel high-brightness display

Throwbot Reconnaissance Robot



Throwbot Reconnaissance Robot



► General Description

The robot can be used in operation field directly and greatly enlarges the reconnaissance scope. It features compact size, light weight and is easy to carry.

► Function

The throwbot reconnaissance robot is a new product that features autonomous positioning functions. It can be deployed at the site and starts operation quickly.

► Principal Data

<u>Length</u>	187 mm
<u>Central Column Diameter</u>	38 mm
<u>Wheel Diameter</u>	76 mm
<u>Self-balancer Length</u>	102 mm
<u>Weight</u>	544 g
<u>Vision</u>	60°
<u>Control</u>	indoor 30 m, outdoor 90 m
<u>Walking</u>	0.3 m/s
<u>Shock</u>	vertical dropping 9 m, horizontal throwing 32 m

Wall Penetrating Scout Radar



Wall Penetrating Scout Radar



► General Description

This radar is provided with the most advanced Ultra-wideband (UWB) technology. It can penetrate normal wooden wall, clay wall and brick wall to detect person and object behind. The detecting range is 10 m.

The radar features compact size, light weight and good reliability. It can be widely used in anti-terrorism, fire rescue and earthquake rescue. The radar has wireless transmission function, which enables operator to have a good picture of the whole site situation. The radar provides with 220V AC power interface suitable for independent operation.

► Principal Data

<u>Size</u>	550 × 400 × 200 mm
<u>Weight</u>	10 kg (including battery)
<u>Max. Detecting Range</u>	10 m (detecting moving people penetrate through 30 cm bricky wall) 3 m (detecting breathing movement under ruins)
<u>Working Time</u>	2 h
<u>Charging Time</u>	4 h
<u>Working Temperature</u>	-10 ~ 50 °C

Spy Eye



Spy Eye



▶ General Description

The spy eye is able to perform 360° rotation. It is controlled by a controller operated manually by operators, and the image sent back from it can be seen from the screen of the controller. It transmits information to the control terminal by audio frequency and video frequency simultaneously. The spy eye can be deployed into cars, buildings, caves, basements, tunnel and streets etc.

▶ Function

- It is thrown by hand or is connected with retractable rod
- Self-contained video camera can rotate 360° via wireless control
- Integrated with red lights

▶ Principal Data

Overall Weight	600 g
Diameter	88 mm
Communication Distance	30 m
Working Time	1 h
Frequency	1.2 GHz

Multi-functional Video Inspection Post



Multi-functional Video Inspection Post



▶ General Description

The multi-functional video inspection post is composed of vehicle bottom inspection post, ceiling inspection post, life detector and so on. It features compact size, light weight and is easy to carry.

▶ Function

The post is mainly used for vehicle bottom inspection, suspicious object examination or searching in ruins. It is used in areas where it is hard to observe directly with human eyes, such as vehicle bottom, underground areas, vertical shaft, interior, roof, lights pool, ceiling, etc.

▶ Principal Data

<u>Length</u>	1,330 - 1,970 mm
<u>Camera Diameter</u>	35 mm
<u>Functional Arm Rotation</u>	-85 ~ +85°
<u>Electric Tilt Camera</u>	-90 ~ +90°
<u>Working Hours</u>	≤ 3 hours
<u>Batteries</u>	No. 2 × 4
<u>Weight</u>	~ 2.6 kg
<u>Smallest Aperture Accessed</u>	38 mm
<u>Total Field of View</u>	290°
<u>Operating Temperature</u>	-10 ~ +60°
<u>Camera</u>	1/4 inch color to black 480 lines CCD
<u>Display</u>	5 inch highlight LCD

Portable Thermal Binocular



Portable Thermal Binocular



▶ General Description

This Product is mainly used to observe soldiers, tanks, vehicles and warships at day and night, for enhancing detection power under low-level lighting or foggy weather conditions. It is an important tool for observation at night.

▶ Principal Data

Recognition Range

for single soldier 0.8 km

for tank ≥ 1.2 km

for warship 3 km

Field of View

$\geq 9^\circ \times 6.75^\circ$

Array Pitch

25 × 25

Focusing Range

15 m ~ ∞

Weight

≤ 1.3 kg

Photo Storage

$\geq 1,000$

Video Recording

15 minutes

Usage

hand-held or tripod

Head Mount Image Intensifier



Head Mount Image Intensifier



▶ General Description

The Head Mount Image Intensifier allows the observer recognize a standing man at 400 m or a medium sized vehicle at 600 m in moonless starlight.

▶ Principal Data

<u>Magnification</u>	5 ×
<u>Field of View</u>	7.5°
<u>Focusing Range</u>	20 m ~ ∞
<u>Out-pupil Distance</u>	22 mm
<u>Visual Degree Adjustment Range</u>	(-4 ~ +3) diopter
<u>Weight</u>	≤ 1.3 kg
<u>Battery</u>	3V lithium battery
<u>Environment Flexibility</u>	
Working Temperature	-40 ~ 50
Storage Temperature	-50 ~ 60

Helmet Mount Image Intensifier



Helmet Mount Image Intensifier



▶ Principal Data

<u>Angle of View</u>	39°
<u>Magnification</u>	1×
<u>Focusing Range</u>	0.25 m ~ ∞
<u>Diopter</u>	-5 ~ +2 SD
<u>Diameter of Exit Pupil</u>	7 mm
<u>Eye-relief Distance</u>	25 mm
<u>Battery</u>	CR2 lithium battery
<u>Weight (Not Including Helmet)</u>	≤ 0.9 Kg
<u>Image Intensifier</u>	2nd generation
<u>Recognition Distance</u>	120 m

Series of Thermal Gun Sights



Series of Thermal Gun Sights



► General Description

Thermal Gun Sight is attached to rifles and submachine guns to search and aim thermal source object. It is capable of detecting and aiming in day and night based on thermal sources background by selecting relative thermal imaging display mode.

► Principal Data

	50 mm	75 mm	100 mm
Magnification	2 ×	2 ×	4 ×
Detector	VOx_320×240	VOx_320×240	VOx_320×240
Optical Focus	50 mm	75 mm	100 mm
Relative Aperture	F 1:1	F 1:1	F 1:1
Diopter Adjustment	-4 ~ +2	-4 ~ +2	-4 ~ +2
Temperature Sensitivity(NETD)	≤ 0.06 °C @ 30 °C	≤ 0.06 °C @ 30 °C	≤ 0.06 °C @ 30 °C
Pixel Size	38 um × 38 um	38 um × 38 um	38 um × 38 um
Imaging Resolution	800 × 600	800 × 600	800 × 600
Field of View	13.7° × 11°	9.1° × 7.3°	6.8° × 5.4°
Respond Band	8 ~ 14 um	8 ~ 14 um	8 ~ 14 um
Frame Frequency	30 Hz	30 Hz	30 Hz
Detecting Range	to person ≥ 600 m to Vehicle (2.3m × 2.3m) ≥ 1.50 km	to person ≥ 800 m to Vehicle (2.3m × 2.3m) ≥ 2 km	to person ≥ 1,000 m to Vehicle (2.3m × 2.3m) ≥ 2.5 km
Identification Range	to person ≥ 400 m to Vehicle (2.3m × 2.3m) ≥ 1 km	to person ≥ 600 m to Vehicle (2.3m × 2.3m) ≥ 1.5 km	to person ≥ 800 m to Vehicle (2.3m × 2.3m) ≥ 2 km
Image Control	enlargement electronically, polarity, brightness control, contrast ratio control		
Power supply	3.7V rechargeable lithium battery (Model:18650; 2pcs)		
Power Consumption	≤ 4 W @ 25 °C	≤ 4 W @ 25 °C	≤ 4 W @ 25 °C
Operation Temperature	-40 ~ +50 °C	-40 ~ +50 °C	-40 ~ +50 °C
Storage Temperature	-50 ~ +70 °C	-50 ~ +70 °C	-50 ~ +70 °C
Sealability	waterproof, nitrogen-filled	waterproof, nitrogen-filled	waterproof, nitrogen-filled
External Power	8.4 V DC 500 mA	8.4 V DC 500 mA	8.4 V DC 500 mA
Dimension	240 × 78 × 105 mm	265 × 88 × 110 mm	300 × 116 × 120 mm
Net Weight	1,338 g (batteries included)	1,575 g (batteries included)	2,090 g (batteries included)