

Equipment & Tools



Portable Hydraulic Tester

Operating temperature: -40°C ~+50°C

Storage temperature: -43°C ~+70°C

Relative humidity: 95% (35°C ±3°C)

Maximum operating altitude: not less than 5500m

Impact: half-sine pulse with a peak acceleration of 20g and a pulse width of 11ms; the working surface is impacted three times

Vibration: frequency range 5Hz~5.5Hz, displacement (double amplitude) 25.4mm; frequency range 5.5Hz~200Hz, acceleration 1.5g; one scanning time is 12min, and the maximum test time is 24min

Temperature measurement range: -45°C ~+100°C ; accuracy: ±1°C

Pressure measurement range: 0 MPa~25MPa; accuracy: ±0.5%FS

Solid contamination level measurement range: 0~12; accuracy: ±1 level

Kinematic viscosity measurement range: 1 mm²/s~800 mm²/s; accuracy: ±2% FS

Dielectric constant measurement range: 1.0~6.0; accuracy: ±2%FS

Weight of the main unit of the hydraulic tester: 7.68kg

Overall dimensions of the main unit: 356mm (length) x 284mm (width) x 86mm (height)

Continuous working time: >12h (powered by external power supply); >2h (powered by self-contained battery, at room temperature)

Electromagnetic compatibility: meets the requirements of CE102, CS101, CS114, CS115, CS116, RE102, and R5104 in GJB151B-2013 "Requirements and Measurements for Electromagnetic Emission and Susceptibility of Military Equipment and Subsystems"

Reliability: MTBF>3000h

Equipment & Tools



High-Resolution High-Speed Image Intensifier CMOS

IIT algebra: "High-speed automatic gating super second generation Gen 2+"

Performance (Resolution @ Signal-to-Noise Ratio): 64lp/mm@29SNR / 60lp/mm@22SNR

Gain: 10000 ~ 33000cd/m²/lx

Phosphor screen: P43 / P45

Resolution: 2880×1616 5MP

Acquisition frame rate: 162fps

Sensor size: 1/2.8"

Pixel size: 5.86um×5.86um

Pixel depth: 10bits / 12bits

Exposure mode @ time: Global exposure @19us-30s

Full well capacity: 30.5ke-

Dynamic range: 72dB

Dark current (DC): < 3e-/pix/s

Signal-to-noise ratio: 45dB

Readout noise: 7.3e-

Interface: Audio / Network / Expansion / Signal @HDMI / TYPE-C

Cooling method: Passive cooling

Readout noise: 7.3e-

Lens interface: C-mount standard interface

Equipment & Tools



Multi-Mode Super Gain Monocular Low-Light Night Vision Device

Magnification: 1X
Field of View (FOV): 40° ± 2°
Objective lens: 26mm F1.25
Diopter: -6D~+2D
Exit pupil distance: 25mm
Focus range: 25mm ~ + ∞
IIT algebra: "High-speed automatic gating super second generation Gen 2+"
Performance (Resolution @ Signal-to-Noise Ratio): "64lp/mm@29SNR; 60lp/mm@22SNR"
Gain: 10000 ~ 33000cd/ m ² /lx
Overall dimensions: 105 (L) × 69 (W) × 57 (H) mm
Weight (including battery): 285g
Power supply and continuous working time: 1 AA battery @ 30h (zero power consumption in shutdown state)
Protection class: IP67
Operating temperature: -40°C ~ +55°C
Storage temperature: -55°C ~ +70°C
Auxiliary lighting: LED 850nm
Attitude sensing: Power off when flipped up / Power on when flipped down / Automatic shutdown when dropped or left unused for 10 minutes

Equipment & Tools



Multi-Mode Super Gain Monocular Low-Light Night Vision Device

Magnification: 1X
Field of View (FOV): 40° ± 2°
Objective Lens: 26mm F1.25
Diopter: -6D~+2D
Exit Pupil Distance: 25mm
Focus Range: 25mm ~ + ∞
IIT Algebra: "High-speed automatic gating super second generation Gen 2+"
Performance (Resolution @ Signal-to-Noise Ratio): "64lp/mm@29SNR; 60lp/mm@22SNR"
Gain: 10000 ~ 33000cd/ m ² /lx
Overall Dimensions: 107 (L) × 110 (W) × 84 (H) mm
Weight (including battery): 460g
Power Supply and Continuous Working Time: 1 AA battery inside the body @ 20h / external battery box @ 50h
Protection Class: IP67
Operating Temperature: -40°C ~ +55°C
Storage Temperature: -55°C ~ +70°C
Auxiliary Lighting: LED 850nm
Attitude Sensing: Power off when flipped up / Power on when flipped down / Automatic shutdown when dropped or left unused for 10 minutes

Equipment & Tools



Front-mounted Dual-spectrum Enhanced Enhanced Monocular Low-light Night Vision Device

Low-Light Night Vision Parameters	Magnification: 1X
	Field of View (FOV): 40° ± 2°
	Objective Lens: 26mm F1.25
	Diopter: -6D~+2D
	Focus Range: 25mm~+ ∞
	IIT Algebra: High-speed automatic gating super second generation
	Performance (Resolution @ Signal-to-Noise Ratio): "64lp/mm@29SNR; 60lp/mm@22SNR"
	Gain: 10000 ~ 33000cd/m ² /lx
	Weight (including battery): 285g
	Power Supply and Continuous Working Time: 1 AA battery @ 30h
	Protection Class: IP67
	Operating Temperature: -40°C ~ +55°C
	Storage Temperature: -55°C ~ +70°C
Front Thermal Fusion Parameters	Field of View (FOV): 33° / 30°
	Focal Length: f 5.76 / f 11.52
	Detector Type: Uncooled infrared focal plane detector
	Resolution: 288 ² / 512 ²
	Pixel Pitch: 12um
	Spectral Range: 800nm ~ 1400nm
	Display Mode: White hot / Outline / Highlight
	Data Interface: RS232
	Video Interface: BNC analog video
	Battery: CR123A/18650/AA battery
Operating Temperature: -40°C ~ +60°C	
Protection Class: IP67	

Equipment & Tools



Rear-mounted Dual-spectrum Fusion Monocular Low-light Night Vision Device

Low-Light Night Vision Parameters	Magnification: 1X
	Field of View (FOV): 40° ± 2°
	Objective Lens: 26mm F1.25
	Diopter: -6D~+2D
	Focus Range: 25mm~+ ∞
	IIT Algebra: High-speed automatic gating super second generation
	Performance (Resolution @ Signal-to-Noise Ratio): "64lp/mm@29SNR; 60lp/mm@22SNR"
	Gain: 10000 ~ 33000cd/m ² /lx
	Weight (including battery): 285g
	Power Supply and Continuous Working Time: 1 AA battery @ 30h
	Protection Class: IP67
	Operating Temperature: -40°C ~ +55°C
	Storage Temperature: -55°C ~ +70°C
Rear Thermal Fusion Parameters	Field of View (FOV): 24°
	Focal Length: f 1.15
	Detector Type: Uncooled infrared focal plane detector
	Resolution: 384x288
	Spectral Range: 800nm ~ 1400nm
	Display Mode: White hot / Black hot
	Detection Range: 220ft / 67m
	Recognition Range: 110ft / 33.5m
	Battery and Operating Time: CR123A@135min
	Weight: 145g
Operating Temperature: -5°C ~ +50°C	
Protection Class: IP45	

Equipment & Tools



Monocular Infrared Thermal Scope

Detector Type: Uncooled Bolometer

Wavelength Range: 8 μ m ~ 14 μ m

Thermal Sensitivity: \leq 30mk@300K F#1.0

Frame Rate: 50Hz

Focusing Range @ Manual/Auto: 5m~+ ∞

Electronic Zoom: 1x ~ 4x

Polarity: Black Hot / White Hot / False Color

Image Brightness/Contrast: Auto / Manual

Display Screen: OLED 1024x768

Eyepiece Magnification: 15x

Exit Pupil Distance: 7mm

Battery @ Operating Time: 1x18650@5h

Weight: \leq 850g

Power Consumption: < 2.0W (@25°C)

Operating Temperature: -30°C ~ +60°C

Storage Temperature: -45°C ~ +70°C

Humidity: 5% ~ 95%

Vibration: 5-200-5Hz@a=30g

Impact: 700g / 1.49ms

Protection Class: IP66

Equipment & Tools



Monocular Binocular Portable Handheld Thermal Imager

Detector Type: Uncooled Bolometer

Infrared Resolution: 640x512@12 μ m

Wavelength Range: 8 μ m ~ 14 μ m

Thermal Sensitivity: \leq 40mk F#1.0 @300K

Frame Rate: 25Hz / 50Hz

Field of View (FOV): 5.9° x 4.7° / 8.8° x 7°

Lens Focal Length: 75mm F#1.0 / 50mm F#1.0

Focusing Range @ Manual: 1m ~ + ∞

Electronic Zoom: 1x ~ 4x

Polarity: Black Hot / White Hot / 8 False Colors

Image Brightness/Contrast: Auto / Manual

Display Screen: OLED 1024x768

Eyepiece Magnification: 14x

Detection Distance: "Man (1.8m x 0.5m) \geq 3.5km / \geq 2.5km; Vehicle (2.3m x 2.3m) \geq 8km / \geq 6km"

Recognition Distance: "Man (1.8m x 0.5m) \geq 1.2km / \geq 1km; Vehicle (2.3m x 2.3m) \geq 3km / \geq 2.5km"

Recording Interface and Format: USB 2.0@MPEG4

Battery @ Operating Time: 1x18650@6h / 1x26650@8h

Weight: \leq 1.3kg / \leq 1.2kg

Operating Temperature: -30°C ~ +60°C

Protection Class: IP66

Equipment & Tools



Explosion-Proof Gas Detection Thermal Imaging PTZ Camera

Infrared Resolution: 640x512@12μm

Wavelength Range: 7μm ~ 8.5μm

Thermal Sensitivity: ≤ 30mk

Field of View (FOV): 12.6° × 10°

Lens Focal Length: 35mm electric zoom

Sensor Type: 1/2.8" CMOS

Horizontal Resolution: ≥ 1100TVL

Minimum Illumination: "Colored: ≤ 0.001Lux@F1.5; Black and White: ≤ 0.0001Lux@F1.5"

Gain Control: Auto / Manual

Signal-to-Noise Ratio: 55dB

Focus Lens: 4.7nm ~ 141mm

Digital Zoom: 16x

Field of View (FOV): 66° ~ 2° (±5%)

Optical Zoom: 30x

F/#: 1.5 ~ 4.8

Detection Range/Sensitivity/Distance: 0~50000ppm·m / 50ppm·m / ≤ 100m

Output Mode: RS485 / RS232

Operating Temperature: -40°C ~ +60°C

Protection Class: IP66/IP68 (2m/2h)

Equipment & Tools



Monocular Head-Mounted Infrared Night Vision Device

Infrared Resolution: 384x288@12μm

Wavelength Range: 8μm ~ 14μm

Thermal Sensitivity: ≤ 40mk

Frame Rate: 50Hz

Field of View (FOV): 17.5° × 13.1°

Lens Focal Length: 15mm

Focusing Range @ Manual: 1m ~ +∞

Electronic Zoom: 2x ~ 4x

Polarity: Black Hot / White Hot / False Color

Image Brightness/Contrast: Auto / Manual

Display Screen: OLED 1024x768

Eyepiece Magnification: 14x

Detection Distance: "Man (1.8m×0.5m) ≥ 700m; Vehicle (2.3m×2.3m) ≥ 1800m; Humidity ≤ 70%, Visibility > 15km"

Recognition Distance: "Man (1.8m×0.5m) ≥ 250m; Vehicle (2.3m×2.3m) ≥ 600m; Humidity ≤ 70%, Visibility > 15km"

Battery @ Operating Time: 1×18650@5h

Weight: ≤ 350g

Operating Temperature: -30°C ~ +55°C

Protection Class: IP66

Equipment & Tools



Monocular Binocular Portable Handheld Dual-Optical Observer

Detector Type: Uncooled Bolometer
Infrared Resolution: 640x512@12μm
Wavelength Range: 8μm ~ 14μm
Thermal Sensitivity: ≤ 30mk
Frame Rate: 50Hz
Field of View (FOV): 8.8° × 7°
Lens Focal Length: 50mm
Focusing Range @ Manual: 5m ~ + ∞
Electronic Zoom: 1x ~ 4x
Polarity: Black Hot / White Hot / 8 False Colors
Image Brightness/Contrast: Auto / Manual
Display Screen: OLED 1024x768
Eyepiece Magnification: 13x
Detection Distance: 1920x1080
Recognition Distance: 35mm@0.01Lx
Recording Interface and Format: USB2.0@720x576
Battery @ Operating Time: 1x26650@6h
Weight: ≤ 1.3kg
Operating Temperature: -40°C ~ +55°C
Protection Class: IP65

Equipment & Tools



Monocular Binocular Multi-Functional Handheld Day-Night Detector

Detector Type: Uncooled Bolometer
Infrared Resolution: 640x512@12μm
Wavelength Range: 8μm ~ 14μm
Thermal Sensitivity: ≤ 30mk@300K F#1.0
Frame Rate: 50Hz
Field of View (FOV): 5.9° × 4.7°
Lens Focal Length: 75mm F#1.0
Electronic Zoom: 1x ~ 8x
Polarity: Black Hot / White Hot / False Color
Display Screen: OLED 1024x768
Eyepiece Magnification: 15x
Resolution: 1920x1080
Lens Focal Length: 70mm
Electronic Zoom: 1x ~ 4x
Laser Band @ Laser Ranging Range: 1535nm@50m ~ 6000m (MAX 8000m)
Ranging Accuracy: < ±2m
Battery @ Operating Time: 3x18650@8h
Weight: ≤ 1.9kg
Operating Temperature: -30°C ~ +55°C
Protection Class: IP66

Equipment & Tools



Binocular Handheld Laser Rangefinder — 2KM/3KM/5KM

Operating Wavelength Band: 1535nm (Eye-Safe)
Ranging Range: "20m ~ 2km/3km; 50m ~ 5km"
Test Conditions: Visibility \geq 10km / \geq 17km (for 5KM range), target reflectivity \geq 30%
Ranging Accuracy: "±1m (for 2KM / 3KM range); ±2m (for 5KM range)"
Repetition Frequency: 5Hz
Detector: Color Low-Light CMOS
Operating Illumination: "0.01Lx (for 2KM / 3KM range); 0.1Lx (for 5KM range)"
Resolution: 1920x1080
Field of View (FOV): 6.5° x 3.8°
Electronic Zoom: "1x ~ 4x (for 2KM / 3KM range); 1x ~ 8x (for 5KM range)"
Diopter Adjustment: "±5 (for 2KM / 3KM range); ±4 (for 5KM range)"
Magnification: 13x
Display: 2x (1024x768) OLED
Data Interface: "RS-232C/USB (for 2KM / 3KM range); BNC/USB (for 5KM range)"
Battery and Operating Time: "1x26650@8h (for 2KM / 3KM range); 2x18650@10h (for 5KM range)"
Weight: < 1.2kg
Operating Temperature: -43°C ~ +50°C (for 2KM / 3KM range); -30°C ~ +55°C (for 5KM range)
Protection Class: IP66
Optional Accessories: Electronic Compass / GPS/BD Positioning / Video Recording (JPEG/AVI (MP4))

Equipment & Tools



Multifunctional Binocular Handheld Laser Rangefinder — 10KM

Operating Wavelength Band: 1540nm (Eye-Safe)
Ranging Range: 50m ~ 8000m (MAX 10km)
Test Conditions: Visibility \geq 17km, target reflectivity \geq 30%
Ranging Accuracy: ±2m
Ranging Efficiency: > 98%
Repetition Frequency: 1Hz ~ 5Hz
Detector: Color CMOS
Resolution: 2Mp
Lens Focal Length: f=70mm
Electronic Zoom: 1x ~ 8x
Diopter Adjustment: ±4
Magnification: 15x
Display: 2x (1024x768) OLED
Data Interface: RS-232C / USB
Battery and Operating Time: 1x18650@8h
Weight: < 1.1kg
Operating Temperature: -30°C ~ +55°C (Note: Complemented the missing "°C " for consistency)
Protection Class: IP67
Optional Accessories: Electronic Compass / GPS/BD Positioning / Video Recording (JPEG/AVI (MP4))

Equipment & Tools



Portable Handheld Penetrating Imager (Glass-Penetrating)

Magnification: 2x / 3x

Field of View (FOV): 25° / 13°

Instantaneous Field of View (IFOV): $\geq 1.5\text{mrad}$

System Gain: $\leq 8000\text{cd/m}^2/\text{lx}$

System Laser Divergence Angle: $\leq 4^\circ$

Deep Cut-Off Narrowband Filter: 0D6@850nm $\pm 3\text{nm}$

IIT Generation: Gen2+

Resolution @ Signal-to-Noise Ratio: 60lp/mm@225NR

Gain: 10000 ~ 33000cd/m²/lx

Central Wavelength: 850nm

Photoelectric Conversion Efficiency: 40%

Peak Power: 210W

Pulse Width: 40ns ~ 200ns

Divergence Angle: 18°

Power Supply: 18650x2

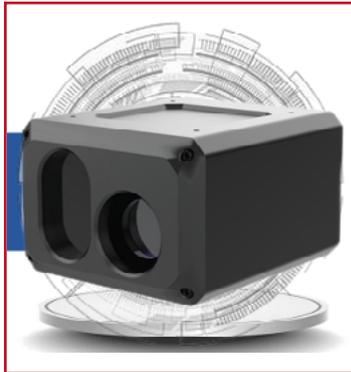
Weight: $\leq 1\text{kg}$ (Note: The original "供电" here is corrected to "重量" based on the context)

Dimensions: 160mmx80mmx80mm

Operating Temperature: -40°C ~ +55°C

Protection Class: IP66

Equipment & Tools



Airborne Gated Penetrating Detection System (Glass-Penetrating)

Electric Zoom: 120mm

Instantaneous Field of View (IFOV): $\geq 1.5\text{mrad}$

System Laser Divergence Angle: $\leq 4^\circ$

Deep Cut-Off Narrowband Filter: 0D9@878.6nm $\pm 3\text{nm}$

IIT Generation: Gen2+

Resolution @ Signal-to-Noise Ratio: 60lp/mm@225NR

Gain: 10000 ~ 33000cd/m²/lx

Central Wavelength: 878.6nm $\pm 0.5\text{nm}$

Full Width at Half Maximum (FWHM): 0.5nm

Peak Power: 350W

Pulse Width: 40ns ~ 200ns

Divergence Angle: 18°

Resolution and Frame Rate: 720P@25fps

Dynamic Range: 72dB

Power Supply: External power supply from UAV

Weight: $\leq 1.8\text{kg}$

Dimensions: 200mmx100mmx100mm

Operating Temperature: -40°C ~ +60°C

Protection Class: IP66 (Note: The original "-40°C ~ +60°C" here is corrected to "IP66" based on the context of parameter consistency)

Equipment & Tools



Enhanced Portable Handheld Penetrating Imager (Smoke-Penetrating and Fire-Penetrating)

Magnification: 2×

Instantaneous Field of View (IFOV): $\geq 2\text{mrad}$

System Laser Divergence Angle: $\leq 4^\circ$

Deep Cut-Off Narrowband Filter: $0\text{D}9@850\text{nm}\pm 3\text{nm}$

IIT Generation: Gen2+

Resolution @ Signal-to-Noise Ratio: $60\text{lp/mm}@22\text{SNR}$

Gain: $10000 \sim 33000\text{cd/m}^2/\text{lx}$

Central Wavelength: 850nm

Photoelectric Conversion Efficiency: 40%

Peak Power: 210W

Pulse Width: $40\text{ns} \sim 200\text{ns}$

Repetition Frequency: $100\text{KHz} \sim 300\text{KHz}$

Divergence Angle: 18°

Power Supply: 18650×2

Continuous Operating Time: $0.5\text{h}@150^\circ\text{C}$

Weight: $\leq 2\text{kg}$

Dimensions: $200\text{mm} \times 100\text{mm} \times 100\text{mm}$

Operating Temperature: $-25^\circ\text{C} \sim +180^\circ\text{C}$

Protection Class: IP66

Equipment & Tools



Enhanced Airborne Gated Penetrating Detection System (Smoke-Penetrating and Fire-Penetrating)

Electric Zoom: $100\text{mm} \sim 120\text{mm}$

Instantaneous Field of View (IFOV): $\geq 1.8\text{mrad}$

System Laser Divergence Angle: $\leq 2^\circ$

Deep Cut-Off Narrowband Filter: $0\text{D}9@878.6\text{nm}\pm 3\text{nm}$

IIT Generation: Gen2+

Resolution @ Signal-to-Noise Ratio: $60\text{lp/mm}@22\text{SNR}$

Gain: $10000 \sim 33000\text{cd/m}^2/\text{lx}$

Central Wavelength: $878.6\text{nm}\pm 0.5\text{nm}$

Full Width at Half Maximum (FWHM): 0.5nm

Peak Power: 350W

Anti-Reflection Wavelength Range: $1030\text{nm} \sim 1200\text{nm}$

Pulse Width: $20\text{ns} \sim 200\text{ns}$

Repetition Frequency: $500\text{KHz} \sim 700\text{KHz}$

Resolution and Frame Rate: $720\text{P}@25\text{fps}$

Dynamic Range: 72dB

Power Supply: External power supply from UAV

Continuous Operating Time: 0.5h

Weight: $\leq 4\text{kg}$

Operating Temperature: $-25^\circ\text{C} \sim +60^\circ\text{C}$

Equipment & Tools



Tactical Helme

- AR Field of View: $\geq 45^\circ$
- Maximum Display Brightness: ≥ 800 nits
- AR Display Quality: MTF $\geq 0.4@30lp/mm$
- AR Resolution: 1920x1080@60Hz
- Infrared Resolution: 640x512@50Hz
- Low-Light Resolution: 1024x760@50Hz
- Visible Light Resolution: 1920x1080@30Hz
- Maximum System Delay: $\leq 40ms$
- HUD Weight: $\leq 800g$
- Total Weight: $\leq 1200g$
- Overall Power Consumption: $\leq 12W$
- IP Protection Class: IP65
- Control Method: Wireless Control
- Operating Temperature: $-40^\circ C \sim +55^\circ C$
- Storage Temperature: $-55^\circ C \sim +85^\circ C$
- Minimum Operating Illumination: 0.003 lux
- Pedestrian Detection Distance: ≥ 350 meters

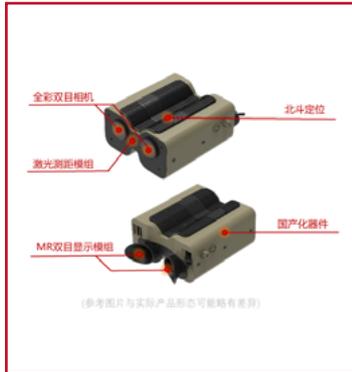
Equipment & Tools



Tactical Enhanced Smart Glasses

- AR Field of View: $\geq 45^\circ$
- Maximum Display Brightness: 800 nits
- AR Display Quality: MTF $\geq 0.4@30lp/mm$
- AR Resolution: 1920x1080@60Hz
- Infrared Resolution: 640x512@50Hz
- Visible Light Resolution: 1920x1080@30Hz
- AI Computing Power: $\geq 6TOPS$
- Image and Video Capability: " ≥ 4 channels of video input, supporting H.264/265 encoding and decoding"
- Pedestrian Detection Distance: $\geq 350m$
- HUD Weight: $\leq 300g$
- Overall Power Consumption: $\leq 3W$
- Battery Life: 8h
- IP Protection Class: IP54
- Operating Temperature: $-40^\circ C \sim +55^\circ C$

Equipment & Tools



Artillery Fire Command MR

MR Field of View: 90°

MR Monocular Resolution: 2560×2560@60Hz

Full-Color Imaging Resolution: 2560×2560@60Hz

Ranging Distance: ≥ 1000m

Ranging Accuracy: " ≤ 10cm@50m; ≤ 100cm@1000m"

AI Computing Power: 6TOPS

Positioning: Beidou

IP Protection Class: IP54

Weight: 2.2kg

Operating Temperature: -20°C ~ +50°C

Storage Temperature: -40°C ~ +50°C

Localization: Fully localized

Equipment & Tools



Fire Eye System

AR Field of View: ≥ 40°

Maximum Display Brightness: 800nits

AR Display Quality: MTF ≥ 0.4@30lp/mm

AR Resolution: 1920×1080@60Hz

Infrared Resolution: 640×512@50Hz

Visible Light Resolution: 1920×1080@30Hz

HUD Weight: ≤ 180g

Overall Power Consumption: ≤ 3W

Battery Life: ≥ 5h

IP Protection Class: IP65

Operating Temperature: -40°C ~ +55°C

Storage Temperature: -55°C ~ +85°C

Equipment & Tools



VCU Controller

Processor: 32-bit ARM core high-eff efficiency processor

Driving Mode: Manual driving mode, remote control driving mode, automatic driving mode

Communication Mode: CAN, RS485, USART

Communication Interface: CAN2.0A/B2, RS4851, TTL*1

CAN Communication Protocol: Custom communication protocol can be customized as needed to meet equipment communication requirements

Acquisition Channels: Supports acquisition of monitoring quantities such as temperature, accelerator pedal, battery voltage, battery current, etc.

Output Channels: Provides 6 channels of controllable power supply voltage output

Ports: 4 input channels support analog and digital input sampling

Lightning Protection Technology: CAN ports are processed with lightning protection and anti-surge

Upgrade Function: Provides on-line upgrade and remote upgrade functions for the equipment

Equipment & Tools



Single-Screen Graphics-Control Integrated Suitcase

Overall Dimensions: 430×345×188mm

Protection Class: IP67

LCD Screen: 15.6 inches

Screen Resolution: 1920×1080

Screen Brightness: 350 cd/m²

Battery: 12V50Ah lithium battery (standby time > 4 hours)

System Memory: 8×512GB

Operating System: WIN10

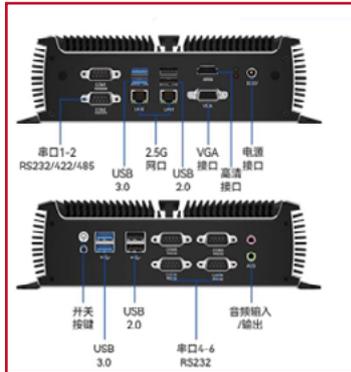
Keyboard/Mouse: 85-key mechanical metal waterproof keyboard, touch trackpad

Color: Black

Operating Temperature: -20°C ~60°C

Storage Temperature: -40°C ~ +85°C

Equipment & Tools



Single-Screen Graphics-Control Box

Model: X89 Dual Network

CPU: i5-1135G7

Memory: Dual-channel DDR4, maximum support for 32GB

Hard Disk: 1*MSATA, 1xSATA / SSD / HDD

Integrated Graphics: Intel Iris Xe Graphics

Output: HDMI/VGA

Supported Operating Systems: Win10/Ubuntu/Linux/Centos

Expansion: 1*M.2 slot, supporting 3G/4G/WIFI modules

Heat Dissipation: Fanless aluminum alloy housing for heat dissipation

Power Supply: 12V/6A

Dimensions: 240x150x69mm, weight approx. 1.75kg

Interfaces: "USB3.04, USB2.04, LAN2, HDMI1, VGA1, MIC1, SPK1, DC-12V1, COM*6 (COM1-2 can be set to RS232/422/485 in BIOS)"

Equipment & Tools



RCU01 Handheld Graphics-Data Integrated Remote Controller

Operating System: Android 12/Ubuntu 20.04

Architecture: ARM

Screen Size: 10.1 inches

Touch Type: Capacitive touch

Brightness: 300 cd/m² (Typ.)

Resolution: 800×1280

Refresh Rate: 60Hz

Dimensions: 400×260×141.8mm (MAX)

Weight: 3.75kg

Operating Temperature: -20°C ~+60°C

IP Rating: Not waterproof

Operating Frequency Band: 800MHz/1.4GHz/2.4GHz

Operating Bandwidth: 20MHz (Typical)

RF Channels: 2T2R

Transmission Power: 30dBm

Transmission Modes: WiFi/4G, 5G/Image Transmission/Wired

Transmission Distance: Ground-to-ground 1.5KM, 5KM, 10KM

Throughput: 30Mbps (Max)

Encryption Algorithm: AES

RF Interface: TNC*2

USB Interface: USB2.0

Audio Interface: 3.5mm headphone jack

Charging Interface: DC12.6V/3.0A

Multimedia Interface: HDMI

LAN Port: RJ45

Expansion Interface: 485/CAN

Power Supply: DC12V~2A

Battery Capacity: 12AH

Battery Life: ≤ 10H

Equipment & Tools



Dual-Screen Graphics-Control Integrated Suitcase

Control Mode: "Enables remote manual control and wireless image transmission communication; available in multiple models with remote control distances of 1.5km, 3km, 5km, 10km, etc."

PTZ Camera Functions: "360° continuous horizontal rotation, +90° ~ -30° vertical rotation; camera resolution 1080P"

Video Point-to-Point Delay: ≤ 450ms

Camera Configuration: "Capable of transmitting 4 channels of cameras, including but not limited to one 360° PTZ camera, one box camera, and two 180° wide-angle cameras for side use"

Overall Dimensions: 1186×492×222mm

Protection Class: IP67

Transport Method: Equipped with carrying handles and towable wheel sets

LCD Screen: Dual-screen design / 15.6 inches / high brightness, visible under sunlight

Screen Resolution: 1920×1080

Screen Brightness: 450 cd/m²

Battery: Standby time > 4 hours

CPU: "I7 8700 CPU / 3.2G base frequency / 4.6G turbo frequency / 6 cores 12 threads or higher"

Video Memory: 8G or more (including 8G)

Memory: 32G or more (including 32G)

Hard Disk: 512G M.2 SSD (solid-state)

Keyboard/Mouse: 85-key mechanical metal waterproof keyboard, touch trackpad

Color: Black

Operating Temperature: -20° C~60° C

Storage Temperature: -30° C~70° C

Host Dimensions: "Approx. 400MM×303MM×133MM (subject to actual design)"

Serial Ports: 2 RS232

USB Ports: 4

Network Interfaces: 2 Gigabit Ethernet interfaces

Power Charging Interface: 220VAC

HDMI: 1

Operating System: WIN10

Image Transmission: "BTD1212-PH20-33-20-1437, transmission power 33dbm, limited distance 20km, frequency band 1427.9-1447.9mhz, maximum one-way bit rate 20mbps (requires SNR > 10); actual ground-to-ground communication distance: 3~10km"

Equipment & Tools



Laser Strike Defense System

CRadar Search Detection Range: 3km~10km (optional)
Radar Search Field of View: Azimuth N×360°, Elevation 0° ~ 40° (configurable)
Radar Detection Range Error: ≤ 10 meters
Radar Detection Angle Error: Elevation ≤ 1°, Azimuth ≤ 0.6°
Radar Target Tracking Accuracy: ≤ 1°
Radar Target Detection Probability: ≥ 95%
Laser Emission Power*: 10kW
Output Power Range: 10% ~ 100% continuously adjustable
Central Wavelength: 1080nm
Line Width: 8 ~ 10nm
Output Power Stability: ±1.5% (typical)
Output Beam Quality M ² : 1.8 ~ 2.0
Output Numerical Aperture: ≤ 0.08
Collimated Beam Diameter: 36mm
Effective Damage Range*: ≥ 1600m @10kW
EO (Electro-Optical) Effective Tracking Range*: ≥ 1800m
Coarse Tracking Camera Parameters: 1600×1200 monochrome, 50fps, 600mm zoom lens
Fine Tracking Camera Parameters: 720×540 monochrome, 200fps, fixed focus
Infrared Camera Parameters: 640×512 mid-wave cooled, 50fps, 750mm zoom lens
Main Emission Aperture: ≥ 215mm
Fast Steering Mirror: Repeat positioning accuracy ±1μrad, bandwidth 250Hz @0.5mrad
Rangefinder*: Ranging distance ≥ 1.8km, accuracy ±2m
Laser Illumination Parameters: 808nm, output power ≥ 100W
Laser Illumination Range*: Covers 0.2-2km
Damage Time: 5 ~ 15s (affected by distance and atmosphere)
EO Target Detection Probability: ≥ 98% (typical for multi-rotor UAVs)
EO Target Tracking Accuracy: ≤ 15μrad (RMS)
Single Continuous Laser Emission Time: ≥ 120s
EO Tracking Range*: Horizontal N×360°, Elevation -10° ~ +65°
Maximum Slewing Speed: ≥ 180° /s
Maximum Tracking Speed: ≥ 60° /s
Maximum Tracking Acceleration: ≥ 60° /s ²
Accuracy-Maintained Tracking Speed: ≥ 10° /s
Accuracy-Maintained Tracking Acceleration: ≥ 10° /s ²
Operating Temperature: -40°C ~ +65°C (determined by cooling medium)
Storage Temperature: -40°C ~ +65°C
Total Dissipation Power: ≤ 35kW
Laser Power Supply Mode: Custom-capacity battery or AC/DC power supply
Mean Time Between Failures (MTBF): 3000h
Service Life: 5000 hours / 8 years
Other Environmental Adaptability Indicators: Resistant to vibration during air and road transportation; operable in Level 6 wind; undamaged in Level 10 wind; resistant to heavy rain in stowed state

Equipment & Tools

Artillery Barrel Bore Inspector



Artillery Barrel Diameter Gauge



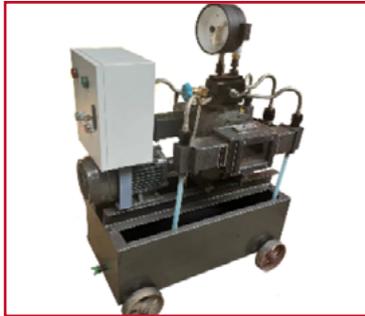
Gun Barrel Cleaning Machine



High-Pressure Nitrogen Machine



Recoil Mechanism Seal Test Bench



Counterrecoil Mechanism Seal Test Bench



Equipment & Tools

Anti-Wear Hydraulic Oil Filler



Hydraulic System Testing Bench



Water Radiator Descaling Machine



Firing Solenoid and Directional Machine
Electromagnetic Clutch Test Bench



Wheel Alignment Instrument



Steering Torque Tester



Equipment & Tools

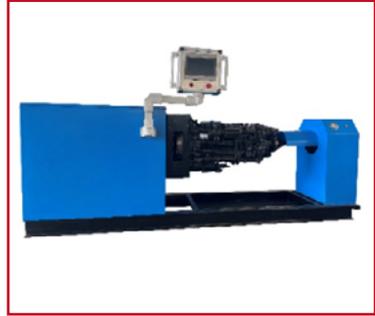
Automotive Brake System Components Test Bench



Tire Changer



Transmission Performance (No-Load) Test Bench



Transmission Performance (Loaded) Test Bench



Drive Shaft Dynamic Balancer



Hydro-Pneumatic Suspension and Shock Absorber Test Bench



Equipment & Tools

Hydraulic Steering Gear Test Bench



Clutch Booster Pump Test Bench



Drive Axle Test Bench



1Tire Dynamic Balancer



Fuel Injection Pump Test Bench



Fuel Injector Test Bench



Equipment & Tools

Engine Oil Pump



Engine Low-Pressure Fuel Feed Pump Test Bench



Engine Cooling Water Pump Test Bench



Engine Sealing (No-Load) Test Bench



Engine Power (Loaded) Testing Bench



Electrical Components Test Bench



Equipment & Tools

1Generator Test Bench

