



TFN MA5P Portable Infrared Night Vision Scope



Product Introduction

The MA5P Portable Infrared Night Vision Scope is a compact, multi-functional digital night vision device designed for outdoor enthusiasts, security personnel, and wildlife observers. It combines high-definition photo and video recording with powerful infrared illumination, enabling clear observation in total darkness. Equipped with a super-bright infrared LED, a star-level sensor for low-light conditions, and a 1.5-inch TFT display, this handheld night vision scope delivers reliable performance at distances up to 100 meters. Whether you need nighttime surveillance, camping security, or nocturnal animal watching, the MA5P offers an affordable, user-friendly solution. Its lightweight design, USB connectivity, and auto power-off function make it a practical tool for long-duration field use.

Product Key Selling Points

Full-Black Infrared Night Vision

The MA5P features a high-power infrared LED array that illuminates scenes in complete darkness. Unlike traditional night vision that requires ambient light, this digital IR night vision scope lets you see clearly up to 100 meters even on moonless nights. Perfect for security patrols, hunting, or checking livestock after dark – no additional lighting needed.

HD Photo & Video Recording

Capture every detail with built-in high-definition photo and video capabilities. The MA5P digital night vision recorder allows you to document nighttime observations as evidence, for study, or for sharing. Save footage directly to a microSD card (supports up to 32GB) and transfer via USB. Never miss a critical moment during night surveillance.

Star-Level Light Sensor for Weak Light

Equipped with a sensitive star-level CMOS sensor, the MA5P excels in low-light conditions. Even without activating IR, it amplifies minimal ambient light (moonlight or starlight) to produce a clear image. This extends battery life and provides natural-looking views. Ideal for dusk monitoring or when covert operation is required.



Long-Range Observation up to 100 Meters

The combination of a high-brightness IR illuminator and optimized optics enables reliable observation at 30 meters (bird detail) and detection up to 100 meters. Whether you're scanning a field, a perimeter, or a distant treeline, this long-range night vision monocular gives you the reach needed for professional tasks.

Compact, Auto-Off & Easy Connectivity

Weighing only a few hundred grams, the MA5P portable night vision scope fits in a backpack or glove compartment. The 1.5-inch TFT display offers real-time viewing, while the auto power-off function saves battery during inactivity. A USB port allows easy file transfer and external power options – designed for field convenience.

Product Specifications

Parameter	Details
Model	MA5P
Type	Digital Infrared Night Vision Scope
Image Sensor	2MP CMOS (star-level low-light sensor)
Display	1.5-inch TFT LCD
Infrared LED	3W, 850nm wavelength (invisible IR)
IR Range	Up to 100 meters (total darkness)
Magnification	2x digital zoom
Photo Resolution	2MP (1600x1200)
Video Resolution	1080P (1920x1080) @ 30fps / 720P
Recording Format	AVI (video), JPEG (photo)
Storage	microSD card (up to 32GB, not included)
USB Port	Mini USB 2.0 (data transfer & power)
MIC	Built-in microphone for audio recording
Auto Power-Off	Yes (selectable: 1/3/5 minutes)
Power Source	3 x AAA batteries (or external USB power)
Battery Life	Approx. 3-4 hours (IR on) / 6 hours (IR off)
Operating Temperature	-10° C to 50° C (14° F to 122° F)
Dimensions	125 x 60 x 45 mm (approx.)
Weight	180g (without batteries)
Mount	1/4" tripod thread

Product Features

Section 1: High-Power Infrared Illumination for Total Darkness Observation

The MA5P is built around a super-bright 850nm infrared LED array. Unlike low-end night vision devices that lose clarity beyond 20 meters, this digital IR night scope provides usable illumination up to 100 meters. You can clearly identify a bird at 30 meters or detect human-sized targets at 100 meters. This solves the critical pain point of traditional night vision that fails in pitch-black environments. Whether you're a farmer checking distant livestock pens at night, a security guard



monitoring a warehouse perimeter without light pollution, or a camper wanting to see what's moving in the dark, the MA5P delivers reliable visibility. The IR is adjustable and invisible to the naked eye, allowing discreet operation. No more stumbling in darkness or carrying heavy, expensive Gen-1 tubes – the MA5P gives you digital clarity with infrared assistance.

Section 2: Star-Level Sensor for Natural Low-Light Viewing

Many night vision devices struggle in transitional lighting – dawn, dusk, or cloudy nights. The MA5P integrates a star-level CMOS sensor that excels at amplifying minimal ambient light. When you turn off the IR, the sensor uses moonlight or starlight to produce a greenish monochrome image that feels natural and reduces eye strain. This feature addresses the pain point of battery drain: by using ambient light first, you save IR power for when it's truly dark. For wildlife observers who want to avoid startling animals with IR glow, or for surveillance operators needing covert monitoring, the low-light mode is invaluable. You can watch nocturnal animals without alerting them, or patrol a campsite using only natural skyglow. The MA5P adapts to your environment, not the other way around.

Section 3: Digital Photo & Video Recording with Instant Playback

One of the biggest frustrations with analog night vision is the inability to document what you see. The MA5P solves this with built-in HD photo and video recording. At the press of a button, you can capture 2MP still images or 1080p videos with audio via the integrated microphone. All files are saved to a microSD card and can be replayed on the 1.5-inch screen or transferred to a computer via USB. This is essential for security personnel who need evidence, hunters who want to review animal behavior, or researchers documenting nocturnal species. The pain point of “I saw it but couldn't prove it” is eliminated. Additionally, the video out feature (via USB) allows connection to a larger monitor for group viewing. The MA5P turns your night scope into a complete documentation tool.

Section 4: Auto Power-Off & Energy Management for Extended Field Use

Running out of battery in the middle of a night mission is a common nightmare. The MA5P includes a programmable auto power-off function (1/3/5 minutes of inactivity) that conserves energy. When combined with the choice of AAA batteries or USB power (e.g., a power bank), you can easily manage runtime. The device draws only ~350mA with IR off, giving up to 6 hours of continuous use. This solves the pain point of short battery life found in many budget night vision scopes. For professionals on overnight stakeouts, campers needing emergency backup, or farmers doing multiple night checks, the MA5P offers peace of mind. The low-battery indicator and standard AAA availability (replaceable anywhere) further enhance field reliability. No more carrying proprietary rechargeable packs – just pop in fresh batteries or plug into a USB source.

Section 5: Compact, Ergonomic Design with Tripod Mount

Hand fatigue and shaky images plague many handheld night vision devices during long observation sessions. The MA5P's lightweight (180g) and ergonomic body reduce strain, while the standard 1/4-inch tripod thread allows stable mounting. Whether you need to scan a perimeter for hours or set up a stationary wildlife watch, you can attach the MA5P to any tripod or monopod. This addresses the pain point of unstable, blurry views at maximum range. The



1.5-inch TFT display is positioned for comfortable one-handed operation, and the rubberized grip prevents slipping in cold or wet conditions. The USB and card slot are covered to resist dust. For security guards, birdwatchers, or night fishermen who need prolonged, steady observation, the MA5P delivers professional-grade usability in a pocket-sized package.

Applications & Pain Points Solved

Scenario 1: Nighttime Property Security Patrol

Pain Point: Security guards cannot see intruders hiding in dark corners or unlit alleys; carrying large, expensive thermal cameras is impractical.

Solution: The MA5P's 100m IR illumination reveals hidden individuals clearly. Its compact size allows easy carry on a belt. Record video evidence of any suspicious activity via the built-in DVR.

Scenario 2: Wildlife Observation & Nocturnal Animal Study

Pain Point: Biologists and nature enthusiasts miss animal behavior after sunset because traditional scopes require ambient light or scare animals with bright IR.

Solution: The star-level sensor works with moonlight for passive observation. When needed, the invisible 850nm IR allows recording without disturbing animals. Capture HD videos for research.

Scenario 3: Camping & Outdoor Emergency

Pain Point: Campers hear strange noises at night but cannot identify the source; flashlights ruin night vision and give away position.

Solution: The MA5P provides hands-free, silent viewing through the 1.5" screen. Quickly scan the campsite perimeter up to 100m. Auto power-off saves batteries for emergency use.

Scenario 4: Livestock & Farm Night Checks

Pain Point: Farmers need to check birthing animals or detect predators at night, but farm lights attract insects and disturb animals.

Solution: Use the MA5P with IR off (ambient light mode) to quietly observe barns and pens. Record birth processes or predator attacks for later review. USB power allows all-night monitoring.

Scenario 5: Boating & Night Fishing

Pain Point: Anglers cannot see dock lines, buoys, or approaching boats after dark; standard waterproof lights have limited range.

Solution: The MA5P's 100m IR reach helps navigate dark marinas and spot fish activity near the surface. Compact design fits in a tackle box. Use tripod mount for stable harbor surveillance.

Q&A

Q1: Can the MA5P see in complete darkness with no light at all?

A: Yes. The MA5P features a high-power 850nm infrared LED that provides full illumination even in pitch-black environments (0 lux). You can clearly observe targets up to 100 meters away. The IR



is invisible to the naked eye, allowing discreet use.

Q2: What is the maximum recording time and storage capacity?

A: Recording time depends on battery and microSD card size. With 3 new AAA batteries, you can record continuously for about 3 hours with IR on. The device supports microSD cards up to 32GB. A 16GB card stores roughly 2 hours of 1080p video or 8,000+ 2MP photos.

Q3: Can I connect the MA5P to an external monitor or TV?

A: Yes, via the mini USB port. Using a USB-to-USB adapter and appropriate software (or a direct AV-out cable if supported), you can output real-time video to a larger screen. This is useful for security command posts or group wildlife viewing.

Q4: Does the MA5P work during the day?

A: Absolutely. The digital sensor works in both day and night conditions. However, the IR LEDs should be turned off in daylight to prevent overexposure. The 1.5-inch TFT display remains visible in bright environments, though direct sunlight may cause glare.

Q5: Is the MA5P waterproof or weather-resistant?

A: The MA5P is designed for outdoor use with basic splash and dust resistance (IP54 equivalent), but it is not submersible. Avoid heavy rain or dropping into water. The USB and card slots have protective covers. For wet environments, we recommend using a waterproof pouch.

Package Contents

1 x MA5P Portable Infrared Night Vision Scope (main unit)

1 x Mini USB cable (for data transfer and external power)

1 x Hand strap / wrist lanyard

1 x Lens cleaning cloth

1 x User manual (English & multilingual)

1 x Quick start guide

(Batteries not included – requires 3 x AAA alkaline or rechargeable batteries)

(microSD card not included – supports up to 32GB Class 10)

Optional accessories available separately: tripod, 32GB microSD card, USB power bank, hard carrying case.