NYCTO M6

First-Ever Dual-Lens Night Vision at 2000m

Two lenses with separate low light sensors put the wide field and far bank in one view. On the M6 Ultra, 10× hybrid zoom moves in for a closer look, while on-device AI reduces noise and motion ghosting.



Bigeyes Innovation introduces the NYCTO M6, a line of three handheld digital night vision cameras for watching wildlife, walking farmland, camping, and night fishing. A sound comes from the tree line. A wide view helps find the movement. A closer view helps tell what it is. Most single- lens devices make users choose between the two.

The NYCTO M6 Pro and M6 Ultra pair a 25 mm wide-angle lens with a 40 mm telephoto lens, each with its own sensor. Both feeds are active from switch-on and combined into one image. The wide lens covers up to a 30° field of view; the telephoto brings distant subjects into clearer view. On the M6 Ultra, zoom moves from the wide image to the telephoto between 4× and 6×, then continues to 10× hybrid zoom.

A third-generation 12.8 TOPS AI image processor reduces noise and motion ghosting on the camera. The M6 Ultra adds 8-micron sensors, an F1.0 wide-angle lens, and a built-in laser rangefinder. Its listed observation range reaches up to 2,000 m for a building in available light; range varies with subject size and lighting. Colour needs available light. In complete darkness, the infrared illuminator provides black-and-white viewing. Bigeyes Innovation describes the system as a first for night vision: dedicated wide-angle and telephoto lenses, each with its own sensor, fused into one image.

Nycto

One Night with the NYCTO M6 Ultra

Step	Action	What happens
01	**Turn it on**	A usable picture appears in about five seconds.
02	**Scan wide**	Spot movement across a field, shoreline, or campsite.
03	**Look closer**	Zoom up to 10x in one continuous movement.
04	**Add infrared**	Press and hold MODE for about two seconds to switch to black-and-white infrared viewing, then select one of three IR brightness levels.
05	**Check distance**	A crosshair and distance reading appear (M6 Ultra).
06	**Save and share**	Take a photo or video and send it to a phone.

Key Features

Find and identify a subject

Wide-angle and telephoto views. The M6 Pro and M6 Ultra offer 2× optical zoom and an adjustable 5°–30° field of view. The M6 uses a single wide-angle lens with digital zoom.

Long-distance observation. The M6 Ultra lists an observation range of up to 2,000 m for a building, 1,000 m for large wildlife and 500 m for a human silhouette in available light. The M6 Pro reaches up to 1,500 m and the M6 Lite up to 1,000 m.

Laser rangefinder (M6 Ultra). The Class 1 rangefinder measures up to 1,200 m, with accuracy of ±1 m up to 300 m and ±2 m beyond that. Never aim the laser at anyone's eyes.

Close focus. Focus as close as 0.5 m to examine tracks, observe insects, or read gauges.

Capture and share

4K photos and 2K video. Record 2K video at 30 fps with sound. Transfer photos and videos to the mobile app over Wi-Fi or to a computer via USB-C.

See in low light

Full-colour and infrared viewing. Stacked BSI colour CMOS sensors are rated to 0.0001 lux. The M6 Ultra uses sensors with 8-micron pixels. In complete darkness, an 850 nm infrared illuminator provides black-and-white viewing.

Observation and Motion modes. Observation mode is designed for tripod-mounted viewing of still scenes. Motion mode uses AI to reduce blur when following a subject handheld.

Use outdoors after dark

Swappable battery. One battery provides about four hours of recording, or two hours with infrared on. A spare extends standard recording time to about eight hours.

Controls and display. Backlit buttons, ten display brightness levels, and a lux readout support use after dark. The 35 mm eye relief accommodates glasses.

Weather-resistant housing. The IP65-rated body operates from −20°C to 60°C and has a standard ¼-inch tripod thread.

THREE MODELS, ONE SIZE

All three models share the same 192 × 127 × 72mm body, AI processor, infrared illuminator, battery, and recording features.

	M6 Lite	M6 Pro	M6 Ultra
Lenses	One wide-angle	Wide + telephoto	Wide + telephoto
Sensors	One, 1/2.8", 4-micron	Two, 1/2.8", 4-micron	Two, 1/1.79", 8-micron
Aperture	F1.2	F1.2, both lenses	F1.0 wide, F1.2 telephoto
Field of view	Fixed 30°	Adjustable 5 to 30°	Adjustable 5 to 30°
Zoom	8x digital	2x optical + 8x digital	2x optical + 8x digital
Laser rangefinder	No	No	Yes, up to 1,200m
Max. observation range	Up to 1,000m	Up to 1,500m	Up to 2,000m
Weight	635g / 1.40lb	665g / 1.47lb	685g / 1.51lb

Observation range depends on the size of the target and is measured in available light. For the M6 Ultra, the company lists a human silhouette at up to 500m, large wildlife at up to 1,000m, and a building at up to 2,000m. Infrared illumination is a separate figure and reaches about 30 metres.

Built for Nights Outside

Wildlife watching. Spot animals after dark, from backyard visitors to deer moving across an open field.

Farm and property checks. Look in on livestock, scan fence lines, and check driveways without switching on a floodlight.

Camping and night walks. See what's beyond the reach of the campfire or headlamp.

Night fishing. Watch for movement along the shoreline and on the water.

The NYCTO M6 is designed for handheld digital observation after dark. Photos and videos can be saved for later review or transferred to a phone to share.

NYCTO M6 Specifications

Processor and sensors — Third-generation on-device 12.8 TOPS AI-ISP. Stacked BSI colour CMOS sensors with a native resolution of 2160 × 1440 and sensitivity rated to 0.0001 lux.

Optics and display — 25 mm wide-angle lens (≈118 mm full-frame equivalent). Pro and Ultra add a 40 mm telephoto lens (≈189 mm equivalent). Focus from 0.5 m. 854 × 480, 10-bit display with a distortion-corrected eyepiece and 35 mm eye relief.

Photo and video — 4K JPEG photos (3840 × 2160) and 2K MP4 video at 30 fps with sound.

Infrared — 850 nm, 3 W illuminator with three levels plus off and approximately 30 m of range.

Battery — Swappable 3,250 mAh battery. About 4 hours of recording, or 2 hours with infrared on. USB-C charging takes about 2 hours at 40 W.

Storage and connectivity — Supports 16–512 GB memory cards (32 GB included). 2.4 GHz Wi-Fi to the app (approx. 10–15 m) and USB-C.

Build and dimensions — IP65-rated polycarbonate and ABS body with a ¼-inch tripod thread. Operates from −20°C to 60°C (−4°F to 140°F). 192 × 127 × 72 mm, Carbon Black.

Languages and warranty — English, French, German, Italian, Spanish, and Japanese. One-year warranty.

WHAT'S IN THE BOX

- 1× NYCTO M6 Lite, M6 Pro, or M6 Ultra
- 1× 3,250mAh battery
- 1× 32GB memory card
- 1× Carrying pouch
- 1× Lanyard
- 1× Lens cleaning cloth

Optional accessories include a spare 3,250mAh battery, a dual-port charging case, and 64GB, 128GB, and 256GB memory cards.

ABOUT BIGEYES INNOVATION

Bigeyes Innovation Limited is a Hong Kong technology company incorporated in October 2024, based in Shenzhen. NYCTO is its first product line.

Product Manager, Tim Tang previously led two generations of consumer night vision devices and brought that experience to defining the M6 Series. Co-founder and CTO of Nycto, Deng, has more than 20 years of experience in chip design and led the development of NYCTO's third-generation AI image processor. Head of Marketing, Kristal Zhao leads global positioning and overseas market development. The team developed the series by taking prototypes out at night, reviewing the footage, and refining the design. The M6 Series is patent-pending in the United States and mainland China, and the NYCTO trademark is registered in mainland China, the United States, and the European Union.

AVAILABILITY

The NYCTO M6 launches on Kickstarter on December 9, 2026, at 9 PM (GMT +4).

Early backers can reserve the device at a special Super Early Bird price. Estimated delivery is late February to early March 2027. Shipping costs vary by destination.

For pricing, campaign updates, and special offers, visit the official campaign page.



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