

MORO VISION NIGHT VISION

LIGHT THE NIGHT™

MONOCAM™ MV-14 ULTRA DIGITAL CAMERA KIT

The MONOCAM™ is a **REVOLUTIONARY NEW NIGHT VISION CAMERA SYSTEM** that converts a PVS-14 or MV-14 type night vision monocular into a light weight, easy to use digital night vision surveillance and security camera. Originally designed for rugged military use, the **WATERPROOF, FREEZEPROOF, SHOCKPROOF & DUSTPROOF MONOCAM™** Night Vision Camera Adapter Kit combines the latest developments in digital camera technology with the best in U.S. manufactured night vision technology. At the heart of the kit is the patented MONOCAM™ Night Vision Adapter, constructed of machine aircraft-grade anodized matte finished aluminum, providing the connection between the night vision monocular and the Olympus Stylus Tough-8000 Camera. The resulting light weight camera system allows the user to easily manipulate objective and dioptic focusing, and other important camera features making it the perfect tool for night time law enforcement and security operations that require image capturing.

The MONOCAM™ is the perfect tool for night time operations where “ease-of-use” and “quick-readiness” are determinative factors in gathering critical information on target objectives or subject evidence collection. The MONOCAM™ utilizes a PVS-14 or MV-14 type monocular, the super tough shockproof, waterproof and freezeproof Olympus Stylus Tough-8000 Digital Camera, and the light weight patented MONOCAM™ Adapter and rubber bushing.

The MONOCAM™ features a ¼” tripod mount and a two-bar rail mount on top for mounting an optional IR Illuminator or Laser Aiming Device. Already in use by the U.S. military, the MONOCAM™ sets a new standard for “ease-of-use” and “quick-readiness” night vision camera systems.



PART #: MVC-51011

MONOCAM™ Standard Accessories:

- MONOCAM™ Camera Adapter - Made of anodized aircraft aluminum and specially designed to fit the Olympus Stylus Tough-8000 Digital Camera
- MONOCAM™ Rubber Bushing
- Olympus Stylus Tough-8000 Camera – The Shockproof, Waterproof, Freezeproof and Dustproof Stylus Tough-8000 gives active people the confidence to take this camera anywhere and shoot in nearly any condition
- MV-14 Ultra Mini-Monocular Gen 3, 64-72 lp/mm (Typ) Single Battery

For MV-14 Ultra Specifications See Below

For Olympus Stylus Tough-8000 Digital Camera Specifications See Below



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MV-14 Ultra Mini-Monocular Gen 3

Using a high performance ITT Generation 3, 64-72 lp/mm image tube, the newly designed U.S. Military battle-proven MV-14 Ultra provides exceptional quality image resolution under varying light conditions. The innovative mil-spec housing is extremely lightweight, weighing only 9.2 oz and can be submerged to depths up to 66 feet. The MV-14 Ultra operates using either one AA or one 3V lithium battery and includes a built in IR Illuminator for increased image clarity in low light situations. Standard accessories including a head mount assembly and a weapons mount make the versatile MV-14 Ultra required gear for all public safety and military applications.



Key Product Features:

- High resolution 64-72 lp/mm (Typ), high gain and high photoresponse in visible and near infrared
- Multifunctional: Hand-held, head-mounted or helmet-mounted as single eye goggle or weapons-mounted as night scope
- Uses one AA or one 3V lithium battery
- Submersible up to 66 feet
- Comprehensive two-year warranty

Standard Accessories:

- **Head Mount Assembly** - Allows for hands-free operation. Accommodates the user's head size and eye positioning.
- **Weapons Mount** – Mounts the MV-14 to most all weapons.
- **Small, Medium and Large Brow Pads** - Changeable pads.
- **Helmet/Head Mount Adapter** - Attaches MV-14 to head mount assembly or helmet mount. Allows the user to position the monocular in front of either eye.
- **Eye Cups** - Prevents the emission of stray light or facial reflections.
- **Soft Carrying Case**- Provides convenient storage.
- **Lens Paper** - Used to lightly clean the objective and eyepiece glass surfaces.
- **Sacrificial Window** – Shields the optics from sand, air particles or anything that may scratch the lens.
- **Demist Shield** – Snaps onto the eyepiece to prevent condensation from forming on the optics.
- **Data Sheet** – System Test Data Sheet

Optional Accessories:

- 3x Mil-Spec Military Magnifier Lens
- 5x Mil-Spec Military Magnifier Lens
- 3x/5x Lens Adapter
- VIP IR Signal Beacon – Dual Function
- Laser Stick – Dual Function
- Guardian IR Flashing Marker
- Guardian IR Mockingbird™ Marker
- IR Illuminator- handheld
- IR Spot/Flood Lens
- Aimpoint Comp M2 Weapons Sight
- Eotech 551 Holograph (N Cell Battery)
- Eotech 552 Holograph (AA Battery)
- Eotech 553 Holograph (3V Lithium Battery)
- Step Up/Down Ring Kit
- Camera Adapter
- Helmet Mount Assembly PASGT
- Dual Bridge Assembly
- Swing Arm Interface
- Monoloc Universal Adapter
- Monoloc Bushing #12-S
- ARMS #M68 Aimpoint Throw Lever Rings
- GG&G ACCUCAM Aimpoint Cantilever Ring
- Shipping & Storage Case
- SKB Mil-Standard Hard Case
- Magnetic Compass

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Product Specifications

Part #	MVP-MV14UL
Generation	3 US (ITT)
Resolution	64-72 lp/mm (Typ)
Magnification	1x
Field of View	40°
Objective Lens	f/1.2
Eyepiece Lens	EFL 26 mm
Diopter Adjustment	+6 to -4 diopters
Range of Focus	25 cm to Infinity
Battery Type	One AA or One 3V Lithium
Battery Life	Approx. 40 hrs at room temp
Weight	9.2 oz (260 grams)
Dimensions	4.2" (L) x 2" (W) x 2.5" (H)
Operating Temperature Range	-40°C to +50° C
Storage Temperature Range	-51°C to +85° C
Camera Adaptable	Yes
Weather Resistant	Yes – Submersible to 66 feet
IR Illuminator	Yes (built-in)
Warranty	2 Years

MOROVISION NIGHT VISION, INC.

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EXPORT NOTICE:

Export of this product is regulated by the U.S. Department of State in accordance with guidelines of "International Traffic in Arms Regulations (ITAR)" per Title 22, Code of Federal Regulations, Parts 120-130

This data sheet is approved for unlimited release.

Specifications subject to change without notice

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OLYMPUS STYLUS TOUGH-8000 DIGITAL CAMERA

The camera that redefines tough. The Stylus Tough-8000 is one tough camera and that's why it was selected out of hundreds of digital cameras, to be the camera of choice for the MONOCAM™. The **Shockproof, Waterproof, Freezeproof, Dustproof** and **Crushproof** design gives tactical team members, law enforcement officers and similar professionals the confidence to take this camera anywhere and shoot in nearly any condition. Plus, the wide-angle lens lets users capture more of what they see. Perfect for SPECOPS, surveillance, and security as well as anyone with an active lifestyle.



SHOCKPROOF (6.6FT).

Accidents happen. A rugged metal body and revolutionary shock-absorbing construction are designed to withstand a 6.6-foot fall, drop or other mishap.

WATERPROOF (33FT).

Innovative waterproof seals and gaskets allow you to take underwater movies and amazing pictures in a pool, lake or ocean.

FREEZEPROOF (14°F).

Perfect for skiing, snowboarding, sledding and other winter fun, this camera is winterized to perform at below-freezing temperatures.

CRUSHPROOF (220 LBF).

With a rugged body and reinforced LCD, the Stylus Tough-8000 withstands up to 220 pounds of pressure so your camera and images are protected.

3.6x WIDE-ANGLE ZOOM LENS.

A wider field of view ensures you'll never miss anyone or anything in your shot. Great for shooting landscapes, underwater scenery, group portraits and amazing panoramic pictures.

2.7" HyperCrystal™ III LCD.

With improved contrast and color reproduction, the HyperCrystal III LCD offers a more accurate and precise image display, as well as an extra-wide viewing angle and increased visibility in direct sunlight.

microSD ADAPTER (MASD-1) INCLUDED.

This model camera is compatible with xD-Picture cards (not included). It also accepts microSD cards (not included) which are compatible with various consumer electronics products when using the included microSD adapter (MASD-1).

The Olympus Stylus Tough-8000 Digital Camera is the perfect camera to use in combination with the MONOCAM™ camera adapter for convenient and "quick ready" night time surveillance.

Find the right MONOCAM™ from a number of different MONOCAM™ systems below. Or, if you already own a PVS-14 or MV-14 style monocular try the MONOCAM™ Adapter Kit.

MONOCAM™ NEPVS-14-17
MONOCAM™ MV-14P
MONOCAM™ MV-14
MONOCAM™ F6015EGA
MONOCAM™ Adapter Kit

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Olympus Stylus Tough-8000 Specifications:

Shockproof	MIL-STD-810F Shock Equivalent (6.6ft./2m)
Waterproof	Equivalent to IEC6059 IPX8/JISC0920 (33ft./10m)
Freezeproof	MIL-STD-810F Low Temp Equivalent (-10oC/14oF)
Crushproof	220lbf./100kgf.
Imager	12 Megapixels (effective), 1/2.33" CCD
Lens	5.0 – 18.2 mm (28 – 102 mm equivalent in 35mm photography), 10 Lenses in 8 Groups, 4 Aspherical Lenses, 2 ED Lenses
Zoom	3.6x Optical Zoom + 5x Digital Zoom
Maximum Aperture	F3.5 (W) - F5.1(T)
LCD Display	2.7" (6.9cm) HyperCrystal™ III LCD with Backlight Boost, approx. 230,000 dots 5 Steps Brightness Adjustment
Focus System	CCD Contrast Detection
Focus Range	Normal mode: 19.7" – infinity (0.5m – infinity) Macro mode: Wide: 3.9" – infinity (0.1m – infinity), Tele: 11.8" – infinity (0.3m – infinity), Super Macro mode: 0.79" – 19.7" (2cm – 50cm)
Focus Mode	iESP Auto, Spot AF, Face Detection AF
Shutter Speed	1/2000 sec. – 1/4 sec. (up to 4 sec. in Night Scene mode)
ISO (SOS: Standard Output Sensitivity)	Auto, High Auto, 64, 100, 200, 400, 800, 1600 (equivalent)
Metering Mode	Digital ESP Metering, Spot Metering, Face Detection AE (when Face Detection AF is selected)
White Balance	Auto, Presets (Daylight, Overcast, Tungsten, and 3 Fluorescents)
Exposure Compensation	±2 EV steps in 1/3 EV steps
Recording Modes (Image File Format)	Still Image: JPEG Movie: AVI Motion JPEG
Adjustment Resolutions	12MP (3,968 x 2,976) 5MP (2,560 x 1,920) 3MP (2,048 x 1,536) 2MP (1,600 x 1,200) 1MP (1,280 x 960) VGA (640 x 480) 16:9 (1,920 x 1,080)
Shooting Modes	Intelligent Auto, Program Auto, Sensor-Shift Image Stabilization, Beauty Mode, 19 Scene Modes, Movie
Panorama Modes	In-Camera Panorama, PC Panorama (Up to 10 frames automatically stitchable with OLYMPUS Master software)

Shooting Assist Functions	Perfect Shot Preview, Histogram, Frame Assist, Voice Recording
Movie Mode	AVI Movie with Sound; 640x480 (30/15fps); 320x240 (30/15fps)
Image Processing	TruePic™ III Image Processor
Noise Reduction	Set automatically at shutter speeds of 0.5 second or longer in specific scene modes
Image Playback	Still Image: Single, Index Display (4/9/16/25), Up to 10x Enlargement, Slideshow, Rotation, Calendar, Histogram, Voice Playback Movie: Normal, Fast-Forward, Reverse, Frame-by-Frame, Voice Playback
Flash	Built-in
Flash Modes	Auto (for low light and backlit conditions); Red-Eye Reduction; Fill-in; Off
Flash Working Range	Wide: 0.33ft (1.0m) – 13.5ft. (4.1m) at ISO 800 Tele: 0.98ft (0.3m) – 8.9ft. (2.7m) at ISO 800
Self timer	12 Seconds
Memory	45MB Internal Memory
Removable Media Card	xD-Picture Card™ (1GB, 2GB), microSD (MASD-1 is required)
Outer Connectors	Multi-Terminal (USB Connector, Audio/Video Output, DC Input*) *Optional DC Coupler (CB-MA1) is required.
Auto-connect	USB 2.0 High-Speed (USB Mass Storage)
USB System Requirements	Auto-Connect USB: Windows® 2000/XP/VISTA with USB port, Mac OS X 10.3 or later with USB port Software: Windows® 2000PRO/XP/VISTA, Mac OS X 10.3 or later
Operating Environment	Operation: 14° – 104°F (-10° – 40°C), 30% – 100% humidity Storage: -4° – 140°F (-20° – 60°C), 10% – 90% humidity
Power Supply	Li-ion Rechargeable Battery (LI-50B), AC Adapter (D-7AC) with the optional DC Coupler (CB-MA1)
Battery Life	260 Shot
Size	3.7"W x 2.4"H x 0.84" D (93.6mm x 60.9mm x 21.3mm)
Weight	6.3oz (170g) without battery and media card
Warranty	Limited 1 Year

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