

MORO VISION NIGHT VISION

LIGHT THE NIGHT™

MONOCAM™ NEPVS-14 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-51010

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
- ITT Night Enforcer® PVS-14 PINNACLE® Gen 3, 64 lp/mm (Typ) w/ Variable Gain, Single Battery

For Night Enforcer® PVS-14 Specifications See Below

For Olympus Stylus Tough-8000 Digital Camera Specifications See Below

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ITT Night Enforcer® PVS-14 Generation 3 PINNACLE® Monocular Night Vision Device (MNVD)

ITT Night Vision, the world's leading producer of Generation (Gen) 3 night vision devices, introduces the new Night Enforcer® PVS-14 **PINNACLE®** Monocular Night Vision Device (MNVD). The multi-functional NEPVS-14 light-weight, single-battery, battle-proven design features the latest auto-gated, thin-filmed **PINNACLE®** image intensifier tube technology as well as variable gain control allowing the user to increase or decrease image tube brightness for greater image contrast in varying light conditions. Designed for the most demanding military and law enforcement applications, the NEPVS-14 can be handheld, head-mounted, helmet-mounted, weapons-mounted, and adapted to a camera or camcorder.



Key Product Features:

- ITT **PINNACLE®** Image Intensifier Tube - Thin-Filmed/Auto-Gated
- High resolution 64 lp/mm (Typ), high gain and high photoresponse in visible and near infrared
- Variable Gain Control for enhanced performance in altering light conditions
- Camera and video adaptable
- Multi-functional: helmet-mountable, head-mountable, hand-held and weapons-mountable

Standard Accessories:

- **Head Mount Assembly** - Allows for hands-free operation.
- **Brow Pad** - Changeable pad for secure head mount fit.
- **Helmet/Head Mount Adapter** - Allows the user to position the monocular in front of either eye.
- **Eye Cup** - Prevents the emission of stray light or facial reflections.
- **System Soft Carrying Case** - Provides convenient storage of NEPVS-14 and accessories.
- **Unit Soft Carrying Case** - Provides convenient storage of NEPVS-14.
- **Shoulder Strap** - Attaches to the NEPVS-14 carrying case for easy portability.
- **Lens Paper** - Used to lightly clean the objective and eyepiece glass surfaces.
- **Day Light Filter** - Filters excessive light. Protects objective lens from the elements.
- **Diopter Lens Cap** - Protects diopter lens from the elements.
- **Operator's Manual** - Instructional users guide.
- **Batteries** - Two (2) AA. (includes one (1) spare).

Optional Accessories:

- 3-in-1 Magnifier Lens
- 3x Mil-Spec Magnifier Lens
- 5x Mil-Spec Magnifier Lens
- 10x Magnifier Lens
- VIP IR Signal Beacon – Dual Function
- IR Laser Stick – Dual Function
- Guardian IR Flashing Marker
- Guardian IR Mockingbird™ Marker
- IR Illuminator – Handheld
- Camera Adapter Assembly
- Step Up/Down Kit
- Helmet Mount Assembly PASGT
- Helmet Mount Assembly MICH
- Aimpoint® CompM2-M4 Series Weapons Sights
- Eotech Holographic 550 Series Weapons Sights
- Monoloc™ Universal Adapter
- Monoloc™ Bushing #12
- EOLAD Series Laser Aiming Devices
- DBAL Series Laser Aiming Devices
- OTAL Series Laser Aiming Devices
- ITAL Series Laser Aiming Devices
- ARMS #M69 Adjustable Throw Lever Mount
- GG&G QD Multi-Flex High Mount
- Shipping & Storage Case
- SKB Mil-Standard Hard Case
- Combat Carrying Case w/ Molle-Loks
- Demist Shield
- Sacrificial Window
- Magnetic Compass

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Product Specifications

PART #:	ITTE-NEPVS14-17
Generation	3 U.S. (ITT PINNACLE®)
Resolution	64 lp/mm (Typ)
Film:	Thin-Film
Gate:	Auto-Gated
Brightness Gain	Adjustable from 25 to more than 3000 fL/fL
Magnification	1x
Field of View	40° ± 2°
Objective Lens	F/1.2
Eyepiece Lens	EFL 26 mm
Diopter Adjustment	+2 to -6 diopters
Range of Focus	25 cm to Infinity
Voltage Required	1.5 Volts
Battery Type	One (1) AA size
Battery Life	Approx. 50 hrs at room temp.
Weight w/ batteries	12.4 oz (351.53 grams)
Dimensions	4.5" (L) x 2" (W) x 2.25" (H)
Operating Temperature Range	-51°C to +49° C
Storage Temperature Range	-51°C to +85° C
System Parts Warranty	Three (3) years
Intensifier Tube Warranty	Five (5) years

MOROVISION NIGHT VISION, INC.

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EXPORT NOTICE:

Export of this product is strictly prohibited 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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