

# Our Budget Solutions to Your Budget Restrictions

(without compromise of capability)

## Katod Gen III Night Vision

Demo Kit Available  
See following page



In **EXCESS** of  
**30%+ SAVINGS** with  
**Katod Cost Effective Kit**

Same 110% performance you expect  
Same 110% performance you demand

### Katod Kit Offer Numerous Minimal Cost Options

- From Gen III FOM1600 to FOM2100 Image Intensifier tube options
- Autogating upgrade available
- P43 (green) or P45 (B&W) output upgrade available
- In-built 'safety photo sensor' option prevents accidental operation during daylight by terminating power to the Image Intensifier Tube, which otherwise, would typically irreparably damage the Tube
- Manual gain control upgrade: adjusts/improves image definition by increasing/decreasing the gain or supplied standard with auto gain
- Camera & camcorder adaptors available
- Interchangeable lenses (3x & 5X magnification) whilst maintaining water immersion 0.5m for 30 minutes – 10m for 1 hour upgrade available
- Head & helmet mounts available
- Picatinny weapon mounts available
- IR illuminator 20mW, 940nm covert, providing IR illumination out to 15-20 meters in 'normal' ambient lighting conditions
- 1x objective lens with closer focus range to 15cm with enhanced field of view 40+ degrees

Katod kit introduced into Australia 2013 & now utilised throughout State & Federal Law Enforcement agencies

Katod has manufactured **Night Vision** since 1959  
Katod is an Image Intensifier Tube, NVD & NVG OEM  
Katod kit is battlefield proven



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# - DFAT Sanctions Section allows imports of Katod Gen 3 Night Vision kit for Australian State & Federal government Law Enforcement agencies -

Import privileges are restricted to Australian government ~ State & Federal Law Enforcement agencies procurements only (no exemptions).

This is excellent news for agencies with limited budgets, seeking the best Night Vision kit at a very affordable outlay.

Katod Night Vision kit is 30%+ more economical, yet with all the features & more (including a large range of mission critical options \*) of other kit, without any compromise of quality or performance, thus enabling you to equip more of your crew with Katod state-of-the-art, high-end Gen 3 Night Vision.

Katod are a Night Vision & Image Intensifier Tube OEM since 1959 & a substantial worldwide Night Vision supplier.

Katod produce FOM1600 - FOM2100 (green P43 & B&W P45) Night Vision with specifications & options that exceed the most controlled US kit, but readily available without any export of origin restrictions.

\*Mission critical options include but aren't limited to –

- FOM1600 - FOM2100 (resolution/sensitivity)
- Interchangeable lenses (3x & 5x magnification)
- Green P43 & B&W P45 output
- Autogating
- Auto or Manual gain control
- In-built 'safety photo sensor' prevents accidental operation during daylight
- Water immersion 10m for 1hr
- IR illuminator 20mW, 940nm covert, providing IR illumination out to 15-20 meters in 'normal' ambient lighting conditions

## Katod Night Vision Assessment Kits

### Demo kit 1

- Katod MNV-S Gen 3 FOM2100 B&W (P45) lightweight NVD, Manual Gain, Auto Gated
  - \* 3x magnification lens
  - \* 5x magnification lens
- Pyser-SGI PNP-Mi NVD XD4 FOM1820 Green (P43)
- Pyser-SGI PNP-MCi XR5 FOM2000 ONYX B&W (P45) with 'C' mount interchangeable lenses

### Demo kit 2

- Katod MNV-S Gen 3, FOM2100 Green (P43), lightweight NVG, Auto Gain, Auto Gated
- Katod MNV-S head harness

For more information:

[Katod MNV-S Night Vision Device](#)

[Katod MNV-S Night Vision Goggles](#)

**Book your assessment of the Katod Night Vision kit now.  
Call Rob MICHAEL on 0411 244969 to arrange.**

**\*Due to the overwhelming interest in the Katod kit, we highly recommend you take advantage of booking an assessment of the kit soon, for all your future procurement requirements.**

*Quotation requests – [budgbust2@militaryandlaw.com.au](mailto:budgbust2@militaryandlaw.com.au)*

***It would be appreciated if you would on forward this notification to all others that may also benefit from this information.***

# Katod MNV-S Night Vision Devices & Goggles



**MNV-S NVD**



**MNV-S NVG**

Lightweight handheld monoculars & goggles weighing a mere 250g & 510g respectively  
IR illuminator 20mW, 940nm covert, providing IR illumination out to 15-20 meters in 'normal' ambient lighting conditions

Adaptable to cameras & camcorders for image gathering applications

1x objective lens with closer focus range to 15cm with enhanced field of view 40+ degrees

Interchangeable lenses (3x & 5x magnification) whilst maintaining water immersion 0.5m for 30 minutes – 10m for 1 hour upgrade available

'Low battery' and "IR-on" indicators are displayed in through eyepiece

All controls & battery compartment are easily accessed & used when operating with gloves

Easily utilised with head & helmet mounting harnesses

The body is corrosion resistant

MNV-S goggle is multifunctional: hand-held, head mounted as a dual tube goggle or detached as individual monoculars

When head mounted, auto off function when flipped up extends battery life & provides greater concealment with lower detection by eliminating greenish or white gleam on operator's face

**Both NVD & NVG are available with the following unique Image Intensifier Tube options-**

- **FOM1600**  
– GATED: none or auto, GAIN: manual or auto, OUTPUT: green or B&W options
- **FOM1800**  
– GATED: none or auto, GAIN: manual or auto, OUTPUT: green or B&W options
- **FOM2100**  
– GATED: none or auto, GAIN: manual or auto, OUTPUT: green or B&W options

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# NIM - Night Vision Intensification Module

Demo Kit Available



NIM is a small lightweight Optical Module utilising the latest in Image Intensifier technology. NIM can be used with any CCTV camera and compatible CCTV lenses. Only requiring 12V DC input, NIM can effectively turn any day camera into an extreme low light surveillance system. The NIM simply requires the addition of a sensor & 1" auto iris lens to operate effectively. Simple & quick set-up.

- Simple config, free standing turnkey piece of kit
- UK manufactured in black polycarbonate for integration with CCTV
- Choice of 5 Night Vision Image Intensification Tube options available - XR5 non-autogated, XR5 autogated, XR5 ONYX, XD-4 & Gen III
- Compatible with 1/2", 1/3", 1/4" & 1" cameras
- Compatible with all 1" COT's objective lenses
- 'C' mount (1"-32 TPI)
- Optional Control Box connects to lens and controls zoom function (requires 12V DC)
- Tripod mountable



Power – 12V DC  
Magnification - 1x  
Dimensions - Size  
73mm (L) 44mm (dia)  
Weight - 216g

## A recent Australian turnkey config supplied for 'close quarters' application –

- Situation – to surveil a room at night... target 2m wide at a distance of 10m
- Solution - NIM with autogated XR5A (72lp/mm ~ sensitivity 1820uA/lm ~ SNR28), Wattec 232S camera with 4mm direct drive/auto iris lens. The direct drive/auto iris closed down at power-off, protecting the NIM's Image Intensifier Tube (IIT) from extended exposure to light... thus protecting the IIT from 'burn-in'. The 4mm direct drive/auto iris lens provided an 85° FoV. Slight vignetting experienced in the corners... the lens ensured the maximum wide-angle without 'fisheye' distortion. As an additional precaution, when the NIM config wasn't powered-down, a photo sensitive cell was incorporate into the system to power off the system when lights were switched on, providing additional protection above & beyond the protection provided to the IIT by the drive/auto iris lens.

For more info: [CLICK HERE](#)

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# DEMO/ASSESSMENT KIT AVAILABLE



**Katod MNV-S  
Night Vision Device**

[CLICK HERE](#)



**Katod MNV-S  
Night Vision Goggles**

[CLICK HERE](#)



**Pyser-SGI PNP-Mi  
Night Vision Device**

[CLICK HERE](#)



**Pyser-SGI PNP-Mi  
Night Vision Device**

[CLICK HERE](#)



**AstroScope 9350 Nikon  
Night Vision Module**

[CLICK HERE](#)



**AstroScope 9350 Canon  
Night Vision Module**

[CLICK HERE](#)



**AstroScope 9350  
Camcorder Night Vision  
Module**

[CLICK HERE](#)



**AstroScope 9350 Scope  
Night Vision Module**

[CLICK HERE](#)



**NIM - Night Vision  
Intensification Module**

[CLICK HERE](#)

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## PNP-Mi Miniature, Lightweight, Ruggedised Night Vision Device

The PNP-Mi is a powerful, multi-purpose pocket-sized monocular night scope. The NVD is designed to be used either as a stand-alone night vision device or in combination with a wide variety of camcorders, still & digital photography, CCTV equipment and spotting scopes.

For more info: [CLICK HERE](#)



## PNP-MCi Miniature, Lightweight, Ruggedised Night Vision Device With Interchangeable 'C' Mount Lenses

The PNP-MCi range is an image intensifier mini monocular night scope incorporating the latest technologies in a compact robust moulded glass filled polymer lightweight body **with interchangeable 'C' mount objective lenses.**

With the PNP-MCi's interchangeable lens feature, standard photographic equipment can be quickly turned into a powerful, effective night-time device, dramatically enhancing your intelligence gathering and observation capability.

PNP-MCi is a powerful, multi-purpose pocket-sized monocular night scope. The pocket scope is designed to be used either **as a stand-alone night vision device or in combination with a wide variety of standard video, still & digital photography, CCTV equipment and spotting scopes.**

Built to Military Specifications -  
**NATO STOCK NUMBER: 5855-99-855-1401**

For more info: [CLICK HERE](#)



### Both the PNP-Mi & the PNP-MCi uniquely feature:

\*A 75mW IR illuminator - 4x more powerful than all other NVD's map reading illuminators. The additional invisible 830nm IR illumination provides up to 20m of unseen 'to the naked eye' luminosity – a critical tactical advantage! A red LED in the eyepiece illuminates when the IR illuminator is on as does a yellow LED when a low battery state occurs.

\*A proprietary in-built 'safety photo sensor' which prevents accidental operation during daylight by terminating power to the Image Intensifier Tube, which otherwise would typically irreparably damage the Tube. This protection, of course, does not activate in the darkness in the case of bright flashes, vehicle headlights even at short distances, nor in street lighting or inside illuminated confines.

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## ONV-I Lightweight Night Vision Goggles

Operating mode switch and batteries compartment cover are easy to use even when operated in gloves.

Angle of IR illumination totally assures uniformity of field of view illumination (controlled during assembly)

Corrosion-proof design

"Low battery" and "IR-on" indicators are displayed in the user's field of view

**Available in FOM1600, FOM1800, FOM20000 & FOM2100, none or auto-gated, manual or auto-gain, green or B&W output.**



**Demo Kit Available**

For more info: [CLICK HERE](#)

## PNG-M Miniature, Lightweight Night Vision Goggles

PNG-M night vision goggle system is a compact ultra-lightweight, high resolution twin eyepiece device incorporating superior optics.

The unit is supplied with a head mount complete with auto off/auto on flip up capability and is easy to use, requiring only one standard "AA" size battery.

The in-built 'safety photo sensor' prevents accidental operation during daylight by terminating power to the Image Intensifier Tube, which otherwise, would typically irreparably damage the Tube. This protection, of course, does not activate in darkness in the case of bright flashes, vehicle headlights even at very short distances, nor in street lighting or inside illuminated confines.

The PNG-M employs a choice of image intensifier tubes characterized by high resolution and a clear, bright image including autogated types.

The unit is supplied with a head mount complete with auto off / auto on flip up capability and is easy to use, requiring only one standard "AA" size battery.

The PNG-M series of goggles meets the night vision needs of military & law enforcement forces around the globe, utilising the very latest in Image Intensifier Tube technology and is available with a wide range of accessories.



**Demo Kit Available**



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# AstroScope 9350 Night Vision Module



**AstroScope 9350  
Nikon Configuration**

**Central Intensifier  
Unit situated between  
'front' & 'back' pairs**

**AstroScope 9350  
Camcorder Configuration**

The AstroScope 9350 Night Vision Module system is Optimised for Low Light Imaging applications providing Extremely High Resolution images in the darkest of conditions:

The benefits of the 9350 Modular system include but are not limited to –

- **No image vignetting** on the majority of SLR platforms.
- Utilise a **super-fast F/1.2 relay optic** which provides you with an **overall 10 – 12 F-stop light gathering performance**.
- **Crisper, sharper & cleaner images without the typical “roll-off”** at the edges.
- **Maintains** the use of the **original host camera’s objective lenses** to uphold extremely high resolution imaging.
- **Maintains** the benefits the host camera’s features such as:
  - Nikon’s “G” series lens compatibility
  - **Retains image stabilisation** facility - VR/vibration reduction (where available)
  - Electronic zooming function (where available)
  - No backfocus required
  - Utilised extensively by the Australian government.
  - **NATO STOCK NUMBER:** 6760-10-527-6366.

**Pocketscope**



**AstroScope 9350  
Night Vision Module**



Unlike pocketscope-based night vision setups, AstroScope delivers the sharpest detail and the highest quality full-frame images with no vignetting on most platforms.

For more info: [CLICK HERE](#)

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# PNP-MTHDE Miniature Thermal Imaging Monocular WITH 32GB DVR Recording

**The PNP-MTHDE is the world's smallest and lightest thermal imaging monocular.**

State of the art world beating 640 x 480 pixel array, High Definition, 17 micron pixel pitch, **25Hz** refresh rate piece of kit which is complemented by a wide range of specially developed accessories enabling the user to perform a huge variety of missions based on just one sensor platform.

32GB DVR providing up to 120hrs of 25fps recording.

Hand held, helmet or head mountable with a variety of clip-on magnification Germanium lenses.

The unique 'Near Eye OLED' display always produces a large crisp image right in front of the eye and overcomes the 'tunnel vision' problem common in inferior designs.

Utilising an advanced OLED 852 x 600 pixels SVGA, Monochrome display, the 32GB Digital Video Recorder (DVR) powered up only when required to conserve power, recording at 25fps with capacity for up to 120 hours

Controls include On/Off, Polarity White hot/Black hot, Electronic zoom 1x 2x and 4x ratio, Screen brightness, Automatic flip up / switch off, flip down /, switch on when used on helmet.

Camera & camcorder mountable for image gathering.

The 17mm, 25mm or 35mm lens versions accept the optional 3x rapidattach magnifier lens which produces 3x, 4.5x and 6x basic optical magnification respectively for the three models in addition to the inbuilt 2x and 4x digital zoom function incorporated as standard.



For more info: [CLICK HERE](#)

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# Raymax CATS 24/7 Day or Night Motorized Zoom Lenses

The range of Raymax CATS lenses allow 24hrs **(day OR night)** operation **without refocussing** throughout the focal range.

There's no requirement to manually swap in & out IR filters &/or no longer having to operate tandem separate day & night camera/lens configurations.

- Super-Apochromat
- High resolution, High contrast

## CATS 2000 24/7 Motorised Zoom Lens

- The capability to confirm a licence plate at 2km's
- The ability to locate a human/vehicle target at 13km's
- 100x (200x with extender magnification)
- 1/2" C 10-1000mm (20-2000mm w/2x extender)
- F4.0 - F256 / F8.0 - F512 (with 2x Ext.)
- Video AI with manual override iris
- Focus/Zoom motorised with presets
- includes lens controller



For more info including a video clip: [CLICK HERE](#)

## CATS 1500 24/7 Motorised Zoom Lens

- 60x magnification (120x with extender magnification)
- 1/2" C 12.5-750 mm (25-1500mm w/2x extender)
- F4.5 - F360 / F9.0 - F720 (with 2x Ext.)
- includes lens controller



For more info: [CLICK HERE](#)

## CATS 300 24/7 Motorised Zoom Lens

- 1/2" C 10-300mm
- 30x magnification
- F2.8 - F360
- includes lens controller



For more info: [CLICK HERE](#)

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## TIU2 Thermal Imaging Sensor

- Thermal Imaging Unit inc. Germanium objective lens with **remote focussing, packaged to IP66** complete with heater and plate for pan/tilt connection.
- Requiring 12V DC input, **can be incorporated with any CCTV system** via BNC out facility.
- **Available with the following objective lens configurations:**  
 25mm F1 Germanium lens FOV 36° manual focus  
 50mm F1 Germanium lens FOV 18° manual focus  
 75mm F1 Germanium lens FOV 12° manual focus  
 100mm F1 Germanium lens FOV 9° manual focus  
 150mm F1 Germanium lens FOV 6° manual focus

For more info including video clip: [CLICK HERE](#)

- Triple sensor changeover **combines three technologies** (day time / low light / image intensified - night vision) **to provide the optimum single sensor for the prevailing conditions.**
- **Colour for day time surveillance** offering high resolution detail & long range identification.
- Selection of **infrared (IR) Enhanced Monochrome sensors extend day use to dusk and dawn & Intensified Night Vision facilitates the darkest part of the night.**
- Sensor/camera selection is conducted with end-user input and the system is designed to be compatible with existing or new standard CCTV equipment.
- System is lightweight and contained in a rugged IP67 environmental housing.

## TRICAM 1500 Triple Sensor Day/Night Changeover Camera



For more info including video clip: [CLICK HERE](#)

## Mini TIU Thermal CCTV/Surveillance Camera

- Mini TIU is a **compact thermal-imaging camera designed for use in 24-hour surveillance systems where detection is essential.**
- Mini TIU **can be installed as part of a new or existing CCTV system** and is compatible with all ancillary equipment including receivers, multiplexers and pan and tilt systems.
- **IP66 rated.**



For more info including video clip: [CLICK HERE](#)

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# EV9 Image Enhancer



- Simple operation results in **highly effective image enhancement** with CCTV, II & TI in situations where the image is degraded due to fog, haze, smog, mist, rain & low light.

- The unit also performs extremely well in enhancing images that are degraded due to over exposure and where procured through scrim!

- 10 enhancement windows & line crispering feature.

- Can be used 'in-line' or else highly effective in 'post production'....excellent results can be obtained via enhancement of a recorded image (up to 5 times).

- Simple 12V input.

- BNC input/output.



For more info including video clip:

[CLICK HERE](#)

The MCC7 Miniature Colour High Resolution CCTV Camera is the **smallest diameter** (7-9mm), length (20mm) **CCD camera available today.**

With a range of **5x lenses & 5x cable** (Multicore) **lengths** up to 15m, the MCC7 is the ideal miniature covert colour CCTV system, ideally suited to all surveillance applications & requirements.

- The Control Box measures only **60mm x 52mm x 16mm!**

- The MCC7 provides **480TVL resolution**, resulting in truly unsurpassed image quality.

- Video output is PAL composite via BNC.

For more info including video clip:

[CLICK HERE](#)

## MCC7 Miniature High Resolution Colour CCTV Camera

Demo Kit Available



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