FUSION THERMAL/NIGHT VISION SYSTEM

FIITS14 w/3I IIT

The FIITS system by ATN combines Image Intensification and Infrared Thermal Imaging technologies for night time low light and adverse weather conditions observation. This is achieved by combining an advanced image intensification system with a thermal imaging system.

The combination of the channels allows the user to take full advantage of both technologies by dichoptically creating a “Fused” image for enhanced night vision observation.

The results are a fused image that allows you the benefits and capabilities of both technologies. You will be able to detect both the Image Intensified Night Vision scene and the Thermal Imaging scene so you will not miss anything that you would have been unable to see by either technology separately.

The FIITS is lightweight, portable, and can be used as a handheld binocular or a dual eye goggle.

- High resolution imaging
- Compact, light weight and durable housing
- Head/helmet mountable for hands free usage
- High Quality optics
- “Fused” image for enhanced night vision observation
- Handheld binocular or a dual eye goggle usage
- Waterproof

HEAD MOUNT ASSEMBLY

HELMET MOUNT ASSEMBLY

HELMET MOUNT ASSEMBLY

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South San Francisco, CA 94080.

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fax: 650-875-0129

FUSION THERMAL/NIGHT VISION SYSTEM

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THERMAL SPECIFICATIONS

Magnification	1X
Objective Focal Length	25 mm
FOV	11° x 8°
Focus Range	from 1m to infinity
Focus Adjustment	Manual
Exit Pupil	14 mm
Eye Relief	25 mm
Detector Type	Uncooled Microbolometer
Spectral Response	7-14 µm
Pixels	160 x 120
Pixel Size	30 x 30 µm
Angular Resolution, mrad	1,2
Thermal Sensitivity	< 0,1°C
Range to Detect a Human	475 m
Output Format	Analog PAL / NTSC
Display	Color OLED matrix
Display Format	SVGA, 852 x 600 pxl
Digital ZOOM	Fixed 2x (optional 5x)
Brightness Adjustment	Manual
Contrast Adjustment	Automatic
Available User Interfaces	From outside PC through USB interface
Power Supply	2 x 3 V CR123A type battery
Start-Up Time	< 3 sec
Operating Time w/one battery pack	4 hrs
External Power Supply	DC 6V, 500 mA

THERMAL SPECIFICATIONS

Magnification	1X
Operating Temperature	-20°C to +50 °C
Storage Temperature	Yes, up to 10 m submersion
Dimensions	130x30x78 mm / 5.1”x5.1”x3”
Weight (w/batteries)	0.75 kg / 1.65 lbs
Warranty	1 year

NIGHT VISION SPECIFICATIONS

Total Darkness IR System	Yes
Multi-Purpose System	Yes
Magnification	1x
Lens System	F1.2, 27 mm
Proshield Lens Coating	Yes
FOV	40°
Range of Focus	0.25 m to infinity
Diopter Adjustment	-6 to +2
Controls	Digital
Automatic Brightness Control	Yes
Bright Light Cut-off	Yes
Infrared Illuminator	Yes (Built-in with flood lens)
IR Indicator	Yes (in FOV)
Low Battery Indicator	Yes (in FOV)
Power Supply	1 x 1.5 V AA type battery or 1 x 3 V CR123A type battery
Battery Life	60 hrs

TUBE SPECIFICATIONS

HIGH QUALITY 3I GEN IMAGE INTENSIFIER TUBE

PHOTOCATHODE TYPE	GaAs
GENERATION	3rd
RESOLUTION, lp/mm *	51-64
SIGNAL TO NOISE RATIO*	18-24
FIGURE OF MERIT	<1400
PHOTOSENSITIVITY	1000-1500
MTTF - MEAN TIMEBEFORE FAILURE, hours	10
EXPORT	State License Req.

* Specifications are provided for informational purposes only. Actual values may vary

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