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**KNIGHT
VISION™**

UNS-TsM (UNIVERSAL NIGHT SIGHT- THERMAL SNIPER MOTORIZED)



FOR MORE INFO CONTACT:

KnightVisionSales@knightarmco.com

Phone: 321.607.9900

Fax: 321.268.1498

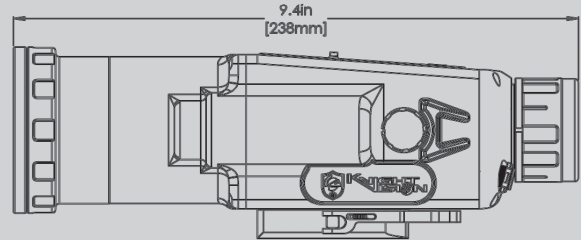
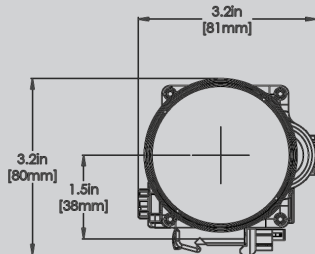
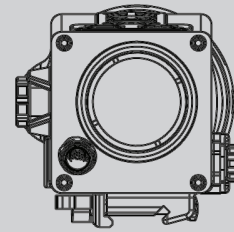
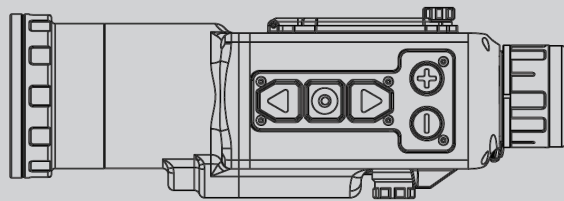
701 Columbia Blvd

Titusville, Florida 32780

The UNS-Ts Motorized (UNS-TsM) Electric Focus Clip on Weapon Sight (WS) adds long range, sniper soldier high resolution (640x480, 17 μ), thermal capability to the existing rifle and day scope by attaching to picatinny rail. It offers reduced target acquisition times and improve soldier effectiveness in daylight and clear air conditions as well as degraded visibility conditions caused by adverse weather, dirty battle field conditions and complete darkness. It's SWaP-C (size, weight and power – cost) architecture design represents a quantum leap forward in soldier systems product technology. This version of the UNS-TsM offers motorized electric focus, allowing the shooter to remain in undisturbed position when adjusting focus (along with the Powered Tethered Remote). This motor is completely internal to the Weapon Sight and is quiet, reliable and extremely low in power when used. In addition to this uncooled VGA video format array, it can be used 1) in conjunction with a DVO interconnectivity, such that the UNS-TsM display output imagery serves as the input for the DVO, 2) as a stand-alone rail mounted Weapon Sight or 3) as a Hand -Held imager.

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SPECIFICATIONS

SIZE:	9.4" (239mm) long, 3.2" (80 mm) high, 1.5" (38mm) to optical centerline
WEIGHT:	2.40lbs. (1.08 kg)
FINISH:	Flat Black Matte, Corrosion Resistant, alternate finishes available
CONTROLS:	On/Off & Display Brightness control knob Auto/Manual Sensor Gain and Offset via menu control 5-button Keypad with user menu (3-button) and electric focus (2-button) 5-button Tethered Remote with identical functions as weapon sight
POWER:	Three AA Lithium batteries and extensive power saving features/modes
BATTERY LIFE:	Four hours operating time depending on motorized focus usage
MOUNT:	KAC mount or quick attach / detach to MIL-STD-1913 rail or equivalent
WATERPROOF:	3 ft. for 4 hours
VIDEO:	Analog RS-170 (NTSC)
COMMUNICATION:	RS-232/422 Serial
OPTIONAL ACCESSORIES:	5 button Tethered Remote with identical functions adding extended power

OPTICAL CHARACTERISTICS

OPERATING MODES:	Standalone Thermal Sight with Digital Reticle and Clip-On thermal sight Disturbed Reticle when Laser Rangefinder data is available
LENS DESIGN:	Refractive Germanium
FIELD OF VIEW (FOV):	6.8 degrees
MAGNIFICATION:	Unity with 2X digital zoom
FOCUS RANGE/TYPE:	25 Meters to Infinity/Motorized Electric Focus
BORE SIGHT:	Patented (US Patent 7,142,357) alignment technology proven in thousands of delivered sniper sights
IR SENSOR:	640 x 480 LWIR VOx, 17 µm pixels (320x240 25 micron 5° FOV is available for export when licensing requires it)

PERFORMANCE CHARACTERISTICS

RANGE:	Recognize a Standing Man under Clear conditions: >2000 m Recognize a Standing Man under Dirty Battlefield: >1000 m
BORE SIGHT:	< 0.5 MOA
BORE SIGHT RETENTION:	< 0.5 MOA over temperature, vibration, and weapon firing
WEAPONS CERTIFICATION:	Tested for use on weapons up to and including .50 caliber rifles
DISTURBED RETICLE:	Performs ballistic processing and provides corrected aimpoint via disturbed reticle. Also able to receive and integrate 2D or 3D wind profile.
CHEEK WELD:	Unchanged
EYE RELIEF:	Unchanged
BULLET IMPACT:	Unchanged

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