



Above images were taken using genuine Star-Tron® Night Vision Products (MK-880 Camera Kit) and a Nikon D2 Digital SLR Camera.

Tactical Night Sight® (TaNS®)

The Tactical Night Sight® (TaNS®) is a high-resolution clip-on night vision weapon sight that mounts on any MIL-STD-1913 rail interface forward of an existing scope, adding night vision capabilities to daytime target acquisition platforms. The Tactical Night Sight® (TaNS®) utilizes a Gen 3 1600 FOM image intensifier tube, a fast f/0.9 catadioptric lens for a brighter and sharper image in starlight, and patented permanent boresight alignment technology. The unit is installed, operated, and removed without tools and without affecting boresight (permanent boresight alignment). The unit can be mounted on a spotting scope for long range reconnaissance, hand-held as a Night Observation Device (NOD), or used in other night-time operations requiring night vision capabilities. The TaNS® features the proprietary and patent-applied-for **Modular Utilitarian Power-Pack System™ (MUPPS™)**, a detachable, field-replaceable battery compartment that accommodates either AA or CR123 batteries. Optional on TaNS® is a temperature-compensated low-battery indicator that appears intermittently in the operator's field of vision (when approximately 30 minutes of battery service remains) but does not obstruct or otherwise interfere with the target image. The TaNS® includes OST's proprietary Shock Mitigation System™ (SMS™), allowing the unit to be used on weapons up to and including .50 caliber bolt-action rifles. Optimized for close combat assault rifles including the M4, M16, HK416 and the AK47. Effective on all weapons from carbines to .50 caliber bolt action rifles.



TaNS® shown with MUPPS™ detached from main housing

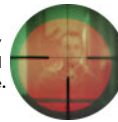


Modular Utilitarian Power-Pack System™ (MUPPS™)



Operator's normal view of target image through dayscope reticle.

Optional low-battery indicator shown illuminated against target image.



Tactical Night Sight® (TaNS®) shown on M4 Assault Rifle

Detect a Vehicle:
In Starlight up to **2010** meters
In ¼ Moonlight up to **2510** meters

Detect a Man:
In Starlight up to **840** meters
In ¼ Moonlight up to **1050** meters

Tactical Night Sight® (TaNS®) Gen 3 1600 FOM Image Intensifier P/N: 56632



System Specifications

Boresight Characteristics

Accuracy:	Factory Aligned to ½ MOA or Better
Adjustments:	None
Repeatability:	Within ½ MOA

System Characteristics

Magnification:	Unity
Optimum Dayscope Magnification:	1X - 8X
Field of View:	14°
Focus Range:	3 meters to Infinity
Image Intensifier Gain:	1,000 - 75,000

Performance

Resolution (Minimum):	2.5 cy/mr
Resolution (Typical):	2.9 cy/mr

Facial ID Ranges

Starlight, Low Contrast:	60 m
Starlight, Optimum Contrast:	85 m
¼ Moonlight, Low Contrast:	85 m
¼ Moonlight, Optimum Contrast:	105 m

Man Detection Ranges

Starlight, Low Contrast:	590 m
Starlight, Optimum Contrast:	840 m
¼ Moonlight, Low Contrast:	850 m
¼ Moonlight, Optimum Contrast:	1050 m

Optical Characteristics

Objective Lens Focal Length:	50 mm
Objective Lens f/Number:	f/0.9
Output Optic Exit Pupil Diameter:	33 mm

Physical Characteristics

Shock Mitigation System™	SMS™
Controls:	On/Off, Focus
Batteries:	AA or CR123
Interface (to MIL-STD 1913):	Single Locking Lever
Operating Temperature:	-30° to +60° C
Submersion:	66 ft. for 2 hours
Length:	5.6 in.
Max Height Above Rail:	3.05 in.
Weight (w/o batteries):	24 oz.



OPTICAL SYSTEMS TECHNOLOGY
STAR-TRON® NIGHT VISION PRODUCTS



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