



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

AN/PVS-22 Universal Night Sight™ (UNS™)

The AN/PVS-22 Universal Night Sight™ (UNS™) 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 Universal Night Sight™ (UNS™) utilizes a Gen 3 1600 FOM image intensifier tube, a fast f/1.15 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 UNS™ includes OSTI'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 medium-range sniper weapons, assault rifles and machine guns including the M110, MK11, M16, SCAR-H, M240, 300 Win Mag, XM107, MK11, .338 Lapua, .308 M24, Chandler, and McMillan Brothers .50 Caliber Bolt-Action Rifle.



AN/PVS-22 UNS™
shown on Chandler Rifle

Detect a Vehicle:

In Starlight up to **2330** meters
In ¼ Moonlight up to **3080** meters

Detect a Man:

In Starlight up to **990** meters
In ¼ Moonlight up to **1290** meters

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 - 12X
Field of View: 13°
Focus Range: 10 meters to Infinity
Image Intensifier Gain: 1,000 - 75,000

Performance

Resolution (Minimum): 3.2 cy/mr
Resolution (Typical): 3.5 cy/mr

Facial ID Ranges

Starlight, Low Contrast: 70 m
Starlight, Optimum Contrast: 100 m
¼ Moonlight, Low Contrast: 105 m
¼ Moonlight, Optimum Contrast: 130 m

Man Detection Ranges

Starlight, Low Contrast: 690 m
Starlight, Optimum Contrast: 990 m
¼ Moonlight, Low Contrast: 1010 m
¼ Moonlight, Optimum Contrast: 1290 m

Optical Characteristics

Objective Lens Focal Length: 68 mm
Objective Lens f/Number: f/1.15
Output Optic Exit Pupil Diameter: 40 mm

Physical Characteristics

Shock Mitigation System™ SMS™
Controls: On/Off, Focus
Batteries: 2 AA
Operating Temperature: -30° to +60° C
Submersion: 66 ft. for 2 hours
Length: 7.29 in.
Max Height Above Rail: 3.08 in.
Weight (w/o batteries): 32 oz.

Interface to MIL-STD-1913:

LaRue Single Adjustable Locking Lever Mount



OPTICAL SYSTEMS TECHNOLOGY
STAR-TRON® NIGHT VISION PRODUCTS



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