

# TAWS Series

Rev. 31 Jan 2014

## Thermal Acquisition Weapon Sight

TAWs-32cL shown below.



The TAWS Series is our dedicated thermal weapon sight line. Of course it is versatile enough to be used as a hand-held unit when needed and can easily be mounted and detached from any standard Picatinny rail system using the double throw lever mount. The TAWS Series gives the operator enhanced surveillance and targeting capability during night and adverse weather conditions. User selectable reticles and digital windage and elevation adjustments are readily available through the onboard software and the monocular can be easily bore-sighted to any weapon. An included remote control switch provides increased flexibility for the user, integrating the sight and the weapon.

The TAWS Series units are easy to operate with simple and intuitive controls, with standard features such as polarity, display brightness and digital zoom. The user menu provides a selection of display modes including color or monochrome and contrasting reticle color, enabling the user to optimize the viewed image for the target and scene conditions.

The TAWS Series objective lens is offered in a variety of focal lengths providing a choice of fields of view and target detection ranges. The TAWS Series models include image capture to an internal memory and review of still images on the internal micro-display. Video and still images may be downloaded and captured to a SD card using our optional Audio Visual Kit.

*Export of the commodities described herein is strictly prohibited without a valid export license issued by the U.S. Department of State, Directorate of Defense Trade Controls as proscribed in the International Traffic in Arms Regulations (ITAR), Title 22 Code of Federal Regulation, Parts 120-130.*

*DISTRIBUTION: OSR 14-S-1227. Approved for public release; distribution unlimited. © 2014 Nivisys*

## FEATURES\*

- **Compact and Rugged**
- **Remote Switch**
- **Weapon Mounted or hand-held**
- **Simple User Operation**
- **Still Image Capture and Review**
- **Color Display**
- **Selection of Reticles**
- **Direct Button Functions**
  - 2X, 4X Digital Zoom
  - Polarity
  - Display Brightness
  - Battery Check
- **Menu Functions**
  - Reticle Select
  - Windage Adjust
  - Elevation Adjust
  - Display Color Options
  - Video Out Enable

**For more information  
on the TAWS Series or  
other Nivisys products  
call (480) 970-3222 or  
visit us on the web at  
[www.nivisys.com](http://www.nivisys.com).**

## TAWS SERIES BASIC SYSTEM:

- TAWS Basic Unit
- Soft Carry Case with Strap
- CR123 Batteries (2ea.)
- Open Eye Cup
- Lens Cover
- Weapon Mount
- Lens Cleaning Kit
- Demist Shield
- Remote Switch
- Operator Manual
- Quick Reference Guide



## COMMON SPECIFICATIONS\*

### Sensor

Vanadium Oxide (VOx)  
Microbolometer  
Uncooled 30hz frame rate

### Thermal Sensitivity

<50mK

### Spectral Response

7 – 14μm

### Battery Type/ Life

CR123 Lithium (2ea.)  
4 hours continuous

### Diopter Range

+2 to -6 minimum

### Eye Relief

25mm

### Environmental

MIL-STD-810F

### Calibration

On- Demand

## COLOR MODES:



Alert

Mono

Color 1

Color 2

Color 3

Color 4

## MODEL DEPENDENT SPECIFICATIONS\*

\*All specifications are subject to change without notice.

Model	Sensor	Objective Lens	Mag	FOV (H x V)	Weight (w/ bat)	Dimensions (L x H x W)	Detection: Man/ Vehicle	Display	Operating Temp
TAWS-16cM	160 x 120, 25μ	35mm f/1.4	2.3	7° x 5°	590g	15.2 x 6.8 x 6.8cm	695m/1328m	LCD	-10° to +45° C
TAWS-16iM								OLED	-40° to +55° C
TAWS-32cM	320 x 240, 25μ	35mm f/1.4	1.8 (2.7)	13° x 10° (9° x 7°)	590g	15.2 x 6.8 x 6.8cm	719m/1368m (883m/1679m)	LCD	-10° to +45° C
TAWS-32iM								OLED	-40° to +55° C
TAWS-32cL	320 x 240, 25μ (17μ optional)	60mm f/1.25	3.1 (4.6)	8° x 6° (5° x 4°)	724g	18.0 x 6.7 x 7.4cm	1138m/1950m (1454m/2756m)	LCD	-10° to +45° C
TAWS-32iL								OLED	-40° to +55° C
TAWS-32cE		100mm f/1.4	5.4 (7.7)	5° x 4° (3° x 2.5°)	1167g	24.9 x 8.6 x 8.6cm	1862m/3345m (2561m/3900m)	LCD	-10° to +45° C
TAWS-32iE								OLED	-40° to +55° C
TAWS-64cM	640 x 480, 17μ	35mm f/1.4	1.4	18° x 13°	590g	15.2 x 6.8 x 6.8cm	883m/1679m	LCD	-10° to +45° C
TAWS-64iM								OLED	-40° to +55° C
TAWS-64cL	640 x 480, 17μ	60mm f/1.25	2.3	10° x 8°	724g	18.0 x 6.7 x 7.4cm	1454m/2756m	LCD	-10° to +45° C
TAWS-64iL								OLED	-40° to +55° C
TAWS-64cE		100mm f/1.4	4.0	6° x 5°	1167g	24.9 x 8.6 x 8.6cm	2561m/3900m	LCD	-10° to +45° C
TAWS-64iE								OLED	-40° to +55° C