



Trijicon ATWS™ (Advanced Thermal Weapon Sight) Trijicon ACTS™ (Advanced Combat Thermal Sight)



Designed for military and law enforcement applications, the new ATWS delivers crisp imaging through total darkness, fog, smoke or dust.

Hand held or gunsight mounted, ACTS provides white-hot, high-definition images in the dark or through battlefield obscurants.

VERSATILE

The new Trijicon ATWS is a long-wave thermal imaging sensor that can be mounted in front of magnified optics like the ACOG; or utilized in handheld or tripod applications.

With a 7° FOV (field of view) and 1x magnification, the ATWS perfectly matches the FOV and magnification of the ACOG 4x32. This allows shooters to maintain the FOV and 4x magnification of the target viewed through the ACOG – without altering the effectiveness of the Bullet Drop Compensator (BDC), battlesight zero, point of aim and point of impact.

Thermal contrasting is equally as versatile. A well-positioned polarity button lets shooters quickly toggle between white-hot and black-hot imaging, without the need for them to remove their hands from the firearm's fore-end.

The ATWS is encased in a rugged, military-grade magnesium housing and powered by four CR123 lithium batteries in a modular cartridge that can be readily replaced with one hand, without the need for tools.

CAPABLE

The Trijicon ACTS is one rugged longwave thermal imaging sensor that ably serves two missions. Clip it onto small arms or the Trijicon Advanced Combat Optical Gunsight (ACOG®) for use as a thermal weapon sight. Alternately, use the small and lightweight ACTS as hand-held imager for surveillance and scouting.

The performance is exceptional, and the operation is simple. ACTS delivers crisp white-hot and black-hot imagery through total darkness, smoke, fog and other obscurants. Single buttons adjust basic images, and the sight is powered for up

to seven hours with three CR123 lithium batteries in an easily replaceable cartridge.

When mounted on the battlefield-proven ACOG, the ACTS delivers high-definition, uncooled thermal sighting with up to 4X magnification, while preserving reticle calibration, boresight and field of view.



Model ATWS22



Model ACTS30

UNIQUE

The Trijicon ATWS provides the smallest size, lightest weight and highest resolution (640 x 480) of any small-arms mounted thermal weapon sight in the world—all significant advantages in the field.



POWERED BY



Thermal images courtesy of FLIR Systems.

Delivers crisp imaging through total darkness, fog, smoke and dust.

Limited to military or law enforcement applications, the new Trijicon Advanced Thermal Weapon Sight™ (ATWS) is a dual-use (handheld / stand-alone weapons clip-on), long-wave thermal imaging sensor.

The ATWS maintains the FOV and magnification of the target viewed through the Trijicon ACOG® – without altering the effectiveness of the Bullet Drop Compensator (BDC), battlesight zero, point of aim, and point of impact.

Operation is easy. The ATWS powers up in white hot (default) mode, and a well-positioned button enables users to toggle to black hot at any time while maintaining support to the firearm.

The ATWS uses four standard CR123 lithium batteries in a field-replaceable power cartridge and is mission capable for approximately five hours per battery charge or per cartridge.

Military-Grade Magnesium Housing
Offers low weight and high strength.

Long-Wave Thermal Imaging Sensor
640 x 480 resolution microbolometer (uncooled).

Infrared (IR) Laser Pointer
Class 1 and class 3B laser.



Manual Focus
Adjusts from 1 meter to infinity. 270° rotation.

Dual Fields of View/Magnification
7° FOV/1x magnification (for clip-on use with ACOG) or 14° FOV/0.5x magnification (for stand-alone use).

Trijicon ACOG
Maintains the ACOG's FOV and magnification – without altering the effectiveness of its Bullet Drop Compensator (BDC), battlesight zero, point of aim, and point of impact.

White Hot / Black Hot Polarity Toggle
Sight powers up in white hot (default) mode, toggles between contrast modes to allow for changing conditions or operator preference.

Manual NUC Adjustment
Allows non-uniformity correction when temperatures change or environmental conditions affect image quality.



For direct sales to governments and municipalities only.

Trijicon ATWS™ Low-Battery Indicator:

An illuminated, low-battery icon appears within the sight when 30 minutes (approx.) of power remain.

Easily Change Views:

The Trijicon ATWS toggles easily between white hot and black hot polarity. The camera powers up in white hot mode as a default setting.



White Hot

Black Hot

Trijicon ATWS™ with new Trijicon RMR™ Sight:

The ATWS features a specially designed platform for mounting the new Trijicon RMR™ (Ruggedized Miniature Reflex) Sight. Together, these two sights provide users with the ultimate in aiming versatility – and improved accuracy in virtually every shooting situation.



Model	ATWS
Operating Principal	Long-Wave VOx Uncooled Microbolometer
Magnification	1x (for Clip-On ACOG® use) 0.5x (for Stand-Alone use)
Sensor Resolution	640 x 480
Spectral Band	8-12 μm
Field of View	7° (for Clip-On ACOG use) 14° (for Stand-Alone use)
Focus Range	1 meter – infinity
Operating Temperature	-40°C to +60°C / -40°F to +140°F
Video	RS-170
Immersion	Waterproof to 66 ft. (20.1m)
Dimensions (L x W x H)	5.9 in. x 3.9 in. x 3.4 in. (149mm x 99mm x 86mm)
Weight w/ Batteries and Mount	822g or 29 oz.
Power Source	(4) Type CR123 Lithium Batteries
Auxiliary Power	12 VDC*
Duration	5 hours at 25°C
Low Battery Indicator	Yes (when approximately 30 minutes of power remaining at 25°C)
Polarity	Toggle between White Hot (default mode) and Black Hot
NUC (non-uniformity correction)	Manual (Operator controls NUC)
Gain/Level	Automatic

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*Video and Auxiliary Power cables sold separately.

Model #	Description
ATWS21	Trijicon/FLIR ATWS – Block 2 – TA104 Lever Mount
ATWS22	Trijicon/FLIR ATWS w/ Laser – Blk 2.5 – TA104 Lever Mount



Thermal Imaging for the Heat of Battle

A longwave thermal sensor, the Trijicon ACTS (Advanced Combat Thermal Sight) combines excellent performance in a multi-use design. The small and lightweight unit clips easily to the Trijicon Advanced Combat Optical Gunsight (ACOG®) to present the shooter with the same field of view while preserving reticle calibration and boresight. Alternately, the ACTS stands alone as a rugged, hand-held imager for scouting, surveillance and covert operations.

With either usage, operators benefit from a thermal imaging system that offers simple, worry-free operation. There are large, single-button controls for basic image adjustment, with no complicated menus to navigate. Three CR123 lithium batteries in an easily replaceable cartridge power the ACTS for up to seven hours of continuous use.

RMR (Ruggedized Miniature Reflex Mount)
Housing accommodates optional secondary sight.

Military-Grade Magnesium Housing
Offers low weight and high strength.

Trijicon ACOG
Maintains the ACOG's FOV and magnification – without altering the effectiveness of its Bullet Drop Compensator (BDC), battlesight zero, point of aim, and point of impact.

Multi-use Design
Offers mission flexibility for use as a clip-on thermal weapon sight and as a rugged hand-help imager for a variety of scouting, surveillance, and covert operations.

Longwave Thermal Imaging Sensor
Provides crisp imagery through total darkness, fog, smoke, dust, and many other obscurants.

Manual Focus
Rotate objective, adjusts 2 meters to infinity.



Model ACTS30

Control Panel
Allows full support of weapon, while providing easy access to ACTS controls.

Integral Laser System
Infrared laser pointer, class 1 and class 3B.

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Trijicon ACTS White Hot Images:

Through darkness, smoke, dust, fog and other obscurants, thermal images appear white hot for ready identification.



White Hot

Black Hot

Simple Operation:

Large, rugged, single button controls for basic image adjustment, no complicated menus to navigate.

Small and Lightweight:

As clip-on sight or hand-held imager, the highly portable unit reduces user fatigue and complements covert operations.

Model	ACTS
Sensor Type	320 x 240 VOx Uncooled Microbolometer
Fields of View	7° (1x), 3.5° (2x), and 1.75° (4x)
Magnification	1x, 2x (digital zoom) and 4x (digital zoom)
Spectral Band	7.5-13.5 µm
Silent Operation	Inaudible beyond 1 meter
Video	RS-170
Power Requirements	(3) CR123 Lithium batteries
Battery Life	Approximately 7 hours continuous use
IP Rating / Waterproof	IP 67+ / 66 ft. seawater, 2 hours
Operating Temp	-40°C to +55°C (-40°F to +131°F)
Storage Temp	-50°C to +65°C (-58°F to +149°F)
Dimensions (L x W x H) (lens covers off)	5.3 in. x 3.5 in. x 4.0 in.
Weight	23 oz with batteries, lens covers, and rail mount
Mounting	MIL-STD-1913 Picatinny Rail mount
Command and Control	Auto gain/level, polarity, manual NUC, digital zoom, manual gain & level, display brightness, laser
Batteries	3 each, CR123, fit into plastic battery cartridge for quick removal and replacement

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Model #	Description
ACTS30	Advanced Combat Thermal Sight