

AN/AAS-52 Multi-Spectral Targeting System



H-60 and variants



Predator UAV



With electro-optical, infrared, laser designation, and laser illumination capabilities integrated in a single sensor package, Raytheon's AN/AAS-52 Multi-Spectral Targeting System provides superior detecting, ranging, and tracking for today's military forces worldwide.

Benefits

- Superior long-range infrared and visible (EO) imagery
- Proven system developed for U.S. and international forces
- Easy integration
- Reliability ensured through MIL-E-5400 and MIL-STD-810 testing
- Worldwide supportability
- Growth options to guarantee continuous operational advantage

Advanced EO/IR Technology

Raytheon's Multi-Spectral Targeting System (MTS) is a multi-use infrared, EO, and laser detecting-ranging-tracking set, developed and produced for use in military systems.

Using state-of-the-art digital architecture, this advanced EO and IR system provides long-range surveillance, target acquisition, tracking, rangefinding, and laser designation for the HELLFIRE missile and for all tri-service and NATO laser-guided munitions.

With proven combat experience, the MTS and variants are available to support domestic and international user missions for rotary-wing, UAV, and fixed-wing platforms.

Excellent Image Quality

Raytheon's image fusion and processing are automatic, hands-off image optimization techniques that maximize displayed image

information, enhancing both situational awareness and long-range surveillance.

World Leadership in EO/IR Systems

Raytheon's experience in EO/IR system and subsystem integration spans both airborne and ground combat systems and addresses all associated integration challenges.

Over the past 40 years, Raytheon has successfully developed and fielded navigation, surveillance, and targeting systems on numerous domestic and international programs. During this period, Raytheon has produced and delivered more than 45,000 EO/IR systems.

As the world's largest manufacturer of electro-optical systems, Raytheon is known for dependable quality.

Growth Path

The MTS system is designed for growth options such as multiple wavelength sensors, TV cameras

(near-IR and color), illuminators, eyesafe rangefinders, spot trackers, and other avionics. Advanced electronics and optical design give a clear growth path for image fusion and other performance enhancements through add-in circuitry. With these technology growth paths, the MTS system will continue to be the world's most advanced EO/IR multi-use system.

AN/AAS-52 Multi-Spectral Targeting System



Parameters	Features
■ Fields of view, degrees:	Wide: 34-45 Medium-wide: 17 x 22 Medium: 5.7 x 7.6 Medium-narrow: 2.8 x 3.7 Narrow: 1.2 x 1.6 (IR and TV) Ultra-narrow: 0.6 x 0.8 (IR) Ultra-narrow: 0.21 x 0.27 (TV)
■ Electronic zoom, IR & TV:	2:1 – 0.3 x 0.4 (IR), 0.11 x 0.14 (TV) 4:1 – 0.15 x 0.2 (IR), 0.06 x 0.07 (TV)
■ Gimbal angular coverage:	Azimuth: 360 degrees, continuous Elevation: 60 degrees up, -120 degrees down
■ Gimbal slew rate:	3 radians/sec elevation
■ Maximum air speed:	>350kts IAS
■ Image Fusion:	Included
■ Automatic video tracker:	Multimode (centroid, area, and feature)
■ Environmental:	Compliant with MIL-E-5400, MIL-STD-810
■ Interface:	1553 data bus and/or discrete controls
■ Video outputs:	RS-170 (525-line), digital, other formats available
■ Cooling:	Self contained
■ Power:	28 VDC and/or 115 VAC operation
■ Weights and dimensions: (approx.)	WRA-1: 130 lbs; 18 in. diameter WRA-2: 25 lbs; 1/2 ATR, 14.4 in. (L) x 4.9 in. (W) x 7.6 in.(H) (for 28 Vdc operation)
■ Options:	Multiple sensors such as EO-TV, image intensified TV, illuminator, eyesafe rangefinder, spot tracker, image fusion, and other avionics



Turret Unit, IR, EO, LRF, LRD and Illuminator (WRA-1) MTS System

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