



K O L L M O R G E N

MODEL 86 OPTRONIC MAST SYSTEM



DESCRIPTION

The Model 86 is the first series of non-hull penetrating masts which are capable of combining viewing sensors as well as ESM, GPS and communication antennas. Capabilities which previously required a hull penetrating optical periscope, can all now be included within the Model 86.

This series design has succeeded in combining a multitude of state-of-the-art sensors on a single non-hull penetrating mast, while satisfying the requirements for future growth.

The Model 86 system hardware is at sea and has demonstrated its operational usefulness and reliability.

*Dedicated
to providing
innovative,
cost effective
solutions
since 1916.*

FEATURES

- Complete Reliable Electronic Imaging (Television/Thermal Imaging)
- Eyesafe Laser Rangefinder
- Quick Look Around with Panoramic Display
- Modes for Programming Automatic Scans
- Electronic Zoom
- Data Recording and Retrieval
- Simplified, Functional Human Machine Interface (HMI)
- Handgrip Line of Sight Control
- Real Time Image Enhancement
- COMMS/GPS/ESM Antennas

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Benefits

- Non-hull penetrating
- Highly reliable proven system
- Operational with the US Navy
- State-of-the-art sensors, electronics, HMI & processing
- Modular design for future technology insertion
- Established HMI baseline tailorable to customer requirements
- Experienced integration with modular masts

SPECIFICATIONS

LINE OF SIGHT

- 2 Axis/35 microradians Stabilization
- 360° continuous Azimuth
- -10° to +74° Elevation (TV)
- -10° to + 45° Elevation (Thermal)

FIELDS OF VIEW

Color/Monochrome

- 24°V x 32°H (WFOV)
- 9°V x 12°H (MFOV)
- 3°V x 4°H (NFOV)
- 1.5°V x 2°H (Monochrome only)

Thermal Imager

- 9°V x 12°H (WFOV)
- 3°V x 4°H (MFOV)
- 1.5°V x 2°H (NFOV)

COLOR CCD

- 3 chip/RGB

EYESAFE LASER RANGEFINDER

- Range to 9.1 Km

THERMAL IMAGING CAMERA

- 3-5 μ FPA

MONOCHROME HDTV

- High Resolution

DIGITAL COMBAT SYSTEM INTERFACE

ANTENNA COMPLEMENT (Optional)

- ESM Early Warning
- GPS/VPA/COMMS Antenna



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