**INDERA MX-2AH** is an X-band naval radar system featuring solid-state FMCW (Frequency-Modulated Continuous-Wave) technology with very low transmit power and frequency agility, making **INDERA MX-2AH** a true Low-Probability-of-Intercept (LPI) radar. It implements state-of-the-art hardware technology and advanced signal processing techniques which lead to superior capability in detection of surface targets.

**INDERA MX-2AH** is equipped with tracking software **MATA**® (MAritime Tracking Aid) to include ARPA functionality, AIS, ECDIS, GPS and compass, enabling **INDERA MX-2AH** to serve as an independent stand-alone on-board navigation system.

**INDERA MX-2AH** is a quiet naval radar which allows you to see without being seen...

### FEATURES

- X-band naval LPI radar
- Solid-state FMCW technology
- 5 Watt max. transmit power
- Frequency agility
- ARPA functionality using **MATA**®
- North-up, head-up, course-up, true motion
- Integrated electronic chart ECDIS
- Integrated AIS, GPS and compass
- Stand-alone navigation capability
- Doppler FFT processing

### SPECIFICATIONS

**ANTENNA**

- **Type**: Dual TX-RX reflector antenna
- **Feed**: Microstrip patch array
- **Gain**: 23 dB
- **Beamwidth**: 1.6° (hor.), 20° (vert.)
- **1° side lobes**: < -20 dB
- **TX-RX isolation**: > 65 dB
- **Rotation speed**: 20 rpm max.
- **Length**: 169 cm

**TRANSCIVER**

- **Carrier freq.**: X-band
- **Bandwidth**: 60 MHz
- **PRF**: 2 kHz
- **Freq. agility rate**: 2 kHz (sweep-to-sweep)
- **Transmit power**: Surveillance mode: 5 W max.
  - LPI mode: 2 W – 1 mW
- **Max. range**: 20 nm @ 5 W transmit power
- **ESM range**: < 1.5 nm @ 1 W transmit power
- **RX noise figure**: 1.7 dB
- **ADC resolution**: 14 bits
- **Range cells**: 512 cells
- **Processing**: Range FFT, Doppler FFT, CFAR
- **OS**: Windows / Linux

*Tested with ESM DR3000ULC @ -70 dBm sensitivity

**DISPLAY / ARPA**

- **Display unit**: 19" Color VGA (1280 x 1024 pixels)
- **Color schemes**: Navy, daylight, red, green, amber, default
- **Range scales**: 0.25, 0.5, 0.75, 1, 1.5, 2, 3, 4, 6, 8, 10, 12, 14, 16, 20 nm
- **Range resolution**: 0.9 meter max., 72 meter min.
- **Number of rings**: Customizable (20 rings max.)
- **Azimuth mode**: North-up, head-up, course-up, true motion
- **#EBL / VM**: 2 lines / 2 markers
- **#Guard zone**: 4 zones
- **Acquisition**: Automatic or manual of 200 targets max.
- **Tracking**: Automatic or manual of 200 targets max.
- **Vector prediction**: Speed & direction prediction within 100 minutes
- **Past position**: 20 past positions of targets at intervals of 1 minute
- **CPA / TCPA limits**: 0.1 to 15 nm / 0 to 120 minutes
- **Chart overlay**: Electronic chart system ECDIS S-57 / S-63

**PHYSICAL CHARACTERISTICS**

- **Dimensions**: 169 cm (length) x 58 cm (width) x 107 cm (height)
- **Total weight**: 170 kg (outdoor unit)
- **Wind load**: 70 kts relative wind speed

**OTHERS**

- **Bearing data**: Digital encoder
- **Peripherals**: AIS, GPS, compass, NMEA 0183 interface

**RADAR & COMMUNICATION SYSTEMS**

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