The EL/M-2022H belongs to a family of multi-role, multi-mode airborne maritime surveillance radars incorporating new technologies, operational feedback and experience of more than 30 years in radar development and manufacture. Maximum commonality with fixed wing aircraft and UAV MPR are key features.

The EL/M-2022H Maritime Patrol Radar (MPR) System provides a cost-effective force multiplier solution for the following operational missions:

- Support to Surface and Littoral Warfare Operations
- Maritime Surveillance and EEZ Patrol
- Drug interdiction and prevention of illegal immigration and terrorist activities
- Coast Guard and Fisheries Partol
- Image Intelligence Operations
- Search and Rescue Location and Support
- Search and Rescue Location and Support

The EL/M-2022H features automatic detection & tracking of maritime surface targets at all speeds and produces high quality radar images. The radar operates as a true all-weather, day and night sensor capable of penetrating clouds, rain, smoke, fog and man-made camouflage.

The display video and data of the sea surface contacts detection and tracking together with SAR/ISAR imagery and may be also transmitted to the Tactical Data System on board the helicopter for further processing, interpretation and extraction of valuable intelligence.

The modular system design with its flexible interfaces enables simple integration with helicopter avionics and with the Tactical Data System.
Helicopter Maritime Patrol Radar System

Radar Payload Modes

**Sea Mode:**
Detection of small to large ships with automatic tracking of all detected targets.

**Classification Mode:**
Range Signature and Inverse SAR (RS & ISAR) imaging with automatic classification to class (ISAR library).

**Imaging Mode:**
Spot-SAR imaging for Littoral surveillance (performance depending on platform velocity).

**Air-Mode:**
Airborne targets detection and tracking.

**Nav/Weather Mode:**
Real Beam Mapping (RBM) and 4-colour Weather Avoidance display.

**Radar Physical Characteristics:**
75Kg / 2000 Watt

1. Antenna Electronic Enclosure
2. Transmitter
3. Radar Processor Unit (RPU)
4. Operator Surveillance
5. ISAR Image
6. SAR Image