



MAWS

Missile Approach Warning System (MAWS)

ELM-2160





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ELM-2160 is an all-weather Pulse Doppler radar based Missile Approach Warning System (MAWS) for helicopters, transport aircraft and VIP jets. The MAWS detects all types of incoming missiles such as IR guided MANPADS from multiple sources simultaneously, and automatically reacts by activating a countermeasure dispensing system such as chaff and flare. The MAWS is successfully combat proven and installed on dozens of aircraft and helicopters.

The following are examples of aircraft type the MAWS is installed on to date:

Platform Type Models

- Helicopters.....UH-60, AH-64, CH-53, MI-17, MI-24, Bell-212, Bell-412
- TransportC-130, C-160, Antonov-32, Fokker-27, Fokker-60
- VIP.....B-737, B-767, B-707, A-319, A-320, A-340, Falcon-900

Key advantage

- Near 100% probability of detection
- Extremely low false alarm rate
- Range and velocity measurement providing accurate Time to Impact (TTI)

The system includes:

- Transmitter Processor Unit (TPU)
- Control Display Unit (CDU) - audio and displays direction of incoming missile
- Six small antennas installed around the aircraft



Specifications

Description	Parameters
Weight range	21kg
Power Supply	28 VDC
Power Consumption	480W
Radar Interface	1553, RS 422, Ethernet
Frequency	L Band
Coverage	360°
False alarm rate	< 1 per 50 hours
Reaction time	< 0.5 second
MTBF	1,000 hour

