



AHV 2500

DIGITAL RADIO-ALTIMETER

- > **Lightweight, low volume**
- > **Jamming resistance**
- > **High integrity**
- > **Digital outputs**
- > **HIRF protection**
- > **Modular architecture**

AHV 2500

The AHV 2500 radio-altimeter has been designed to meet the latest Missiles and UAVs requirements.

The AHV 2500 improves the FM/CW radio-altimeter technique, that has been developed and patented by THALES for more than 30 years, with digital signal processing and latest Radio Frequency technology. It provides enhanced accuracy, integrity, immunity to multipath, jamming resistance and reduced power consumption.

GENERAL

This new radio-altimeter provides:

- Low weight and volume
- High integrity level
- LPI (Low Probability of Interception)
- Jamming resistance
- High EMI protection
- Immunity to multipath
- Sea skimming capacity (option)
- Terrain following capacity for Nap-on the Earth
- Severe flying conditions (roll and/or pitch) capacity

TECHNICAL

Modulation	FM/CW
Frequency range	4,200 to 4,400 MHz
Accuracy	3 feet \pm 3 %
Altitude range	up to 5,000 ft
Power supply	28 V DC < 16 W
Interfaces	RS 422 or MIL-STD 1553B

PHYSICAL

Type	Dimensions (W x H x D)	Weight
AHV 2500	95 x 90 x 190 mm 3.7 x 3.5 x 7.5 inches	1.8 kg 4 lbs
ANT 140 A	90 x 105 x 38 mm 3.5 x 4.1 x 1.5 inches	0.15 kg 0.33 lbs
ANT 130	49 x 85 x 24 mm 1.9 x 3.3 x 0.9 inches	0.07 kg 0.15 lbs

OPERATIONAL

Integrity	up to 10^{-6}
MTBF	> 500,000 hours storage
BITE	> 90 %
HIRF	up to 100 V/m (option)
Cooling	Natural convection
Operating temperature range	- 45° C to + 71° C
EMI / EMC	MIL-STD-461C
Design	MIL-E-5400T

ASSOCIATED EQUIPMENT

Antennas	ANT 140 A, ANT 130, ANT 230
Workshop test bench	BTE 210
Ramp test bench	RTP 690

THALES

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