

US-D1 RADAR ALTIMETER

SHORT RANGE - 50m



PRODUCT OVERVIEW

Commercialized in 2017 and deployed in 40+ countries, the US-D1 is the gold standard in short-range radar altimeters. The US-D1 provides the most reliable precision altitude measurements regardless of weather, lighting or environmental conditions.

APPLICATIONS

- Smart Agriculture
- VTOL / eVTOL
- Last Mile Delivery
- Construction
- Terrain Following
- Utility / Inspection
- Forestry / Surveying
- Public Safety



PLUG AND PLAY

Seamless integration with Ardupilot and Pixhawk and FCC & CE Certifications guarantee the US-D1 is ready to fly!



ALL-WEATHER

Ainstein's radar-based altimeters ensure the utmost reliability and precision in all-weather, any light, and every time.



COMPACT DESIGN

At 100g, the US-D1's small footprint is ideal for small UAS applications with limited payload.



PRODUCT SPECIFICATIONS

Frequency	24 GHz
Field of View	43° Azimuth 30° Elevation
Altitude Range	0.5 m - 50 m
Altitude Precision	±6 cm (>1 m) ±4 cm (<1m)
Power Consumption	2 W (at 5 V DC input)
Operating Voltage	5 - 13 V
Update Rate	100 Hz
Bandwidth	190 MHz
Operating Temperature Range	-20 °C - 65 °C
Dimensions	108 mm x 79 mm x 20 mm
Weight	110 g
IP Rating	IP67
Interface	CAN and UART TTL
Certifications	FCC and CE

