

US-D1 RADAR ALTIMETER

Short Range - 50m



RELIABILITY ALWAYS

Thanks to the mmWave radar technology, the US-D1 offers high accuracy in any weather or environment: Over water, in fog, through dust, with bright/dark conditions, and more. The US-D1 has been designed with an IP67 enclosure, to be able to perform in any condition.

USE CASES

- Smart Agriculture
- VTOL / eVTOL
- Last Mile Delivery
- Terrain Following
- Utility
- Forestry / Surveying



PLUG-AND-PLAY

The US-D1 is compatible with ArduPilot and PX4. Available communication protocols include UART TTL and CAN.



ALL-WEATHER

The US-D1 offers an update rate of 100 Hz with an altitude precision of 6.0cm (< 1m), 4.0cm (> 1m).



ANY ENVIRONMENT

The US-D1 offers an update rate of 100 Hz with an altitude precision of 6.0cm (< 1m), 4.0cm (> 1m).



PRODUCT SPECIFICATIONS

Frequency	24 GHz
Field of View	43° Azimuth 30° Elevation
Altitude Range	0.5 - 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	108mm x 79mm x 20mm
Weight	110g
IP Rating	IP67
Interface	CAN and UART TTL
Certifications	FCC and CE

