

PADS® WiPPR®

Wind Profiling Portable RADAR

Measures wind in real-time

WiPPR (Wind Profiling Portable RADAR) provides in-situ wind information for mission execution and data gathering. This data increases accuracy with weather forecasting models and precision airdrop operations.

How WiPPR works:

WiPPR accurately measures wind information on clear days and in inclement weather (fog, rain and snow). Compared to other wind profiling technologies, WiPPR offers more accurate and reliable vertical wind measurements, is considerably smaller, uses less power and requires minimal setup and maintenance.

The system is easy to use and features a high-resolution wideband RADAR that is capable of sensing horizontal and vertical wind speeds at altitudes up to 5 km with range bins as small as 3 m.

Applications

- Measures real-time wind information to support guided, ballistic and personnel airdrop operations
- Measures wind information for meteorological application in forecast models



FEATURES/BENEFITS

- Simple to operate
- Works in “clear air” within the convective boundary layer and higher
- Works in inclement weather conditions troublesome for LIDAR
- Covers altitudes from 10 to 5,000 m at full 3 m range resolution
- Low power (<125W) and suitable for extended duration installations
- Provides wind profile updates as rapidly as 1 per minute
- Fully PADS®/JPADS compatible

Real Time. Real Tactics. Real Missions.

QINETIQ
North America

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WiPPR Specifications

- Wind Speed Range: 0 – 66 m/s
- Sensing Range: 10 – 5,120 m
- Range Gate Depth: +/- 1.5 m
- Wind Speed Accuracy: +/- 1 m/s
- Wind Direction Accuracy: +/- 1°
- Data Output Rate: 10 Hz

Dimensions

- RADAR Electronics Unit: 31" (D) x 37" (H)
- Power Conditioning Unit: 31" x 17" x 12"

Weight

- RADAR Electronics Unit: 105 lbs
- Power Conditioning Unit: 134 lbs

System Power

- Input Power: 24 VDC
- Shore Power: 110 - 220 VAC
- Power Consumption: <125W cont.

Environmental Specifications

- Operating Temperature: -20° to 45° C
- Storage Temperature: -40° to 85° C

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