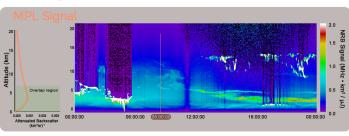
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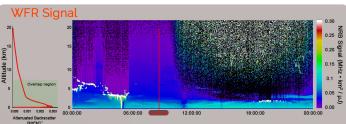
WIDE-FIELD RECEIVER (WFR)

Spec Sheet



The WFR is an optional addition to the Model 4 MPL that allows overlap calibration of an already fielded instrument. A wider FOV receiver is bore-sighted to the MPL and collects the backscattered light from the





same transmitter, and is able to resolve signal within the MPL's overlap regime. By comparing the two signals, a simple scaler conversaion can be generated to correct for these losses.

The WFR system runs continuously and does not affect the normal MPL data collection.

## **Opto-Mechanical Specifications:**

- · ø50mm center-mounted receiver.
- · Polarization insensitive for use with PMPLs.
- 1.4mRad field-of-view.
- 0.15nm FWHM spectral filtering
- ≤0.005° boresight accuracy.
- · Internal automatic shutter for sun protection.
- Fiber-coupled connection to external SPCM.
- · Optional interface with MPL Iris System.
- Max range<sup>(1)</sup> 16km (nighttime), 4km (daytime).
- MPLNET approved design.
- Swappable between MPL systems<sup>(2)</sup>.







(a) Max range strongly dependent on MPL output energy and C-Value.
Typical values given.
(b) WFR system may be swapped between MPLs but requires a boresight alignment
each time. Consult A for advice and information.
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