**Zenith Polarimetric Doppler Cloud Radar**

- High-tech low-cost solution for synergistic ground-based and airborne platforms
- Ka, W, G-band configurations
- Calibration of meteorological radars, including air and space borne systems
- Microphysical retrievals
- Evaluation of high resolution regional models

**Scanning Polarimetric Doppler Cloud Radar** *(available from beginning of 2017)*

- Fog nowcast
- Propagation effects for satellite links
- Ice shape and orientation
- Qualitatively new precipitation estimation
- Rain drop size distribution
- Weather nowcast
- Boundary layer characterization
- Wind retrieval
- Lightning detection
- Hydrometeor classification

**Dual Frequency 35/94 GHz Polarimetric Doppler Cloud Radar** *(available from mid of 2017)*

- Advanced detection of supercooled liquid
- Improved ice characterization
- Attenuation-based precipitation estimation
- Accurate profiling of liquid water content

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1 Single polarization version is available upon request
2 Zenith configuration can be implemented.
Novel Product Line
FMCW Cloud Radars

Advantages

- Absolute calibration
- Low cost
- Powerful rain mitigation system
- Embedded 89 GHz passive channel
- High range resolution (1m)
- Company based production chain
- High sensitivity
- Small form factor
- Small blind zone
- High electromagnetic compatibility
- Stable signal shape
- Perfect Thermal insulation (25mK)
- Low noise temperature (400K)
- No high voltages
- Embedded weather station
- High Doppler resolution (1.7 cm/s)

Measurement Example

For more details and observations please refer to the extended brochure.