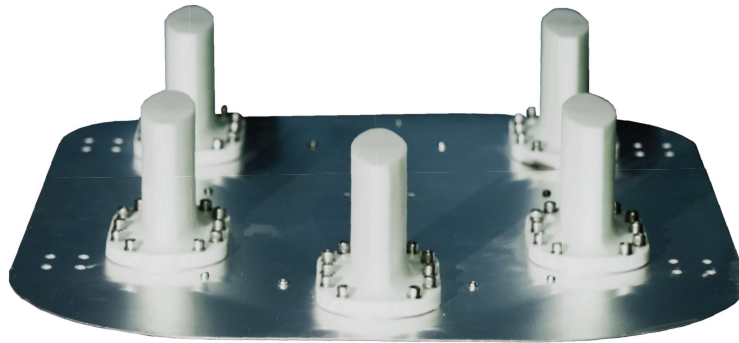


AIRBORNE V/UHF DIRECTION FINDER

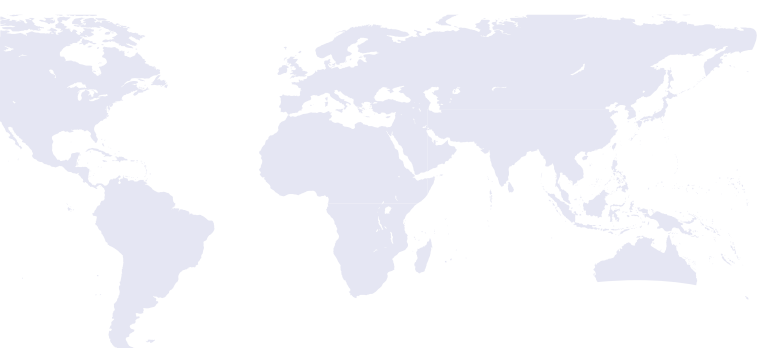
AVUIDF1829F



The Airborne Broadband direction finder system working between frequency range of 100MHz to 2GHz, AVUIDF1829F, is an aerodynamic special designed DF for using on small-sized airplanes such as UAV or other kinds of model aircrafts. AVUIDF1829F utilizes the advantage of better observation from an altered point from the earth rather than ground-based DFs.

FEATURES

- Better observation and results in comparison with ground-based DFs
- Easier observation on impassable regions, including forests, range of mountain and etc
- Easier and Faster access to surveying zones
- More steady and compatible results in special situation like different weather conditions
- Advanced Position finding system further than the other DFs
- Better operational performance due to the target specifications
- Convenient vehicle-mountable mobile design
- Optimized for using on aircraft flying at altitude equals to 4500 meters from the sea level and at the speed of 140-300 Km/h
- Capable of communicating with the grounded operational commanding center
- Usable in a wide variety of applications ex. Country's frontier safekeeping, military monitoring, radio spectrum monitoring and etc.



Technical Specification

AVUIDF1829F is compliant with Recommendation as well as the ITU-R Spectrum Monitoring Handbook, Edition 2011	
Frequency range	100 MHz to 2000 MHz
DF method	Correlative interferometer, Super Resolution, Sparsity-Based
Instrument DF accuracy	0.5° RMS
System DF accuracy (in test field)	5° RMS
Display	azimuth vs. frequency, level vs. frequency, polar diagram, histogram, waterfall, real time IF panoramic display (bandwidth 100 kHz or 1 MHz)
Display resolution	0.1° to 5° (selectable)
Operating modes	FFM (Fixed Frequency Mode), WBM (Wide Band Mode), SCAN (f-SCAN, m-SCAN)
Instantaneous bandwidth	10 MHz (Optimal 20 MHz)
Frequency span in wideband mode	1 MHz/2 MHz/10MHz
Minimum signal duration	0.5 ms
Scan speed with 20 kHz resolution	up to 500 MHz/s

Adjacent channel suppression ≥ 10 kHz	70 dB (FFM), 60 dB (SCAN)
Modes of demodulation Dynamic range (incl. AGC)	CW, AM, FM, SSB
Linearity Second-order intercept (SOI)	≥ 70 dBm, typ. 80 dBm
Third-order intercept (TOI)	≥ 30 dBm, typ. 35 dBm
ITU-R Recommendation Compliant	SM.1053, SM.1269, SM.1370, SM.1392, SM.1537-0, SM.1537-1, SM.1598, SM.1600-0, SM.1600-2, SM.854-1, SM854-3

