



TFN FMT715C / FMT760C Portable RF Analyzer

Professional Antenna Test and Spectrum Analysis Solutions



Product Overview

The FMT series portable RF analyzer is a high-performance field test tool that integrates spectrum analysis, antenna and feeder testing, base station maintenance, and interference troubleshooting. It is suitable for multiple application scenarios, including communications maintenance, network optimization, base station installation, and RF engineering, helping engineers quickly locate problems and improve network quality and O&M efficiency.

Core functions of the product

1. Comprehensive spectrum analysis capabilities

- Frequency range: 2MHz–6GHz (FMT760C) / 2MHz–4.4GHz (FMT715C)
- Supports measurements of channel power, adjacent channel power, occupied bandwidth, phase noise, spurious emissions, etc.
- Dual-window spectrum display, supporting digital afterglow and spectrum graph, easily captures intermittent interference

2. Precision antenna and feeder system testing

- Adopt FDR fault location technology to accurately locate the fault point of antenna feeder line
- Supports cable loss, return loss, and VSWR measurements to prevent equipment damage and signal coverage degradation

3. Base station RF and demodulation analysis

- Supports LTE/FDD/TDD base station testing, including key indicators such as ACLR, SEM, PVT, and EVM
- Constellation diagram analysis, control channel power measurement, and co-channel interference testing help optimize network performance

4. Interference detection and frequency clearance test

- Built-in GPS and map, support frequency clearance test and interference source location
- Spectrum graph recording up to 72 hours, support video playback, easy to track sudden interference

5. Portable design and rich interfaces



- Equipped with multiple interfaces such as USB, LAN, GPS, RF OUT, etc., supporting external devices and data transmission
- Built-in large-capacity lithium battery, typical battery life 6 hours, suitable for long-term outdoor work

Technical Specifications Summary

project	FMT715C	FMT760C
Frequency range	2MHz–4.4GHz	2MHz–6GHz
Spectrum analysis range	9kHz–4.4GHz	9kHz–6GHz
Phase noise	< -100 dBc/Hz @10kHz offset	< -100 dBc/Hz @10kHz offset
Dynamic Range	80dB	80dB
Scan Points	Maximum 2065 points	Maximum 2065 points
show	6.5" TFT LCD, 640×480	6.5" TFT LCD, 640×480
Battery life	> 4.5 hours (typically 6 hours)	> 4.5 hours (typically 6 hours)

Solve customer pain points

Customer pain points	TFN Signal Analyzer solution
Prevent equipment damage	Accurately measure return loss and standing wave ratio to avoid damage to the transmitter due to poor indicators.
Improve network coverage	Quickly locate antenna and feeder faults, optimize base station coverage, and reduce call drops and congestion.
Efficient interference detection	Digital afterglow and spectrogram technology capture hidden interference and improve network purity.
Portable field testing	Lightweight design + long battery life meet the needs of outdoor mobile testing and improve work efficiency.

Applicable industries and scenarios

1. Mobile communications operators
2. Wireless Network Optimization Company
3. Radio and Television Maintenance Team
4. RF equipment manufacturers
5. Communication engineering installation and maintenance