SX-P30 PORTABLE MONITORING RECEIVER

◆ ADVANCED MOBILITY FOR ACCURATE SPECTRUM ANALYSIS ◆

OVERVIEW

The SX-P30 is a compact and lightweightportable system, purpose-built for radiomonitoring and direction-finding in diversescenarios. By integrating the receiver, display,power system, and control functions, itenables highly efficient field operations. The SX-P30 features powerful signal analysiscapabilities, supporting the analysis of 2G,3G/ WCDMA, LTE, and 5G NR signals.

KEY FEATURES

Compact and Lightweight Design
Small size and lightweight design. Equipped with a full touchscreen and a keyboard for flexible operation.

User-Centric Design

The intuitive interface supports gesture controls and physical keys to ensure ease of operation and comprehensive signal analysis capabilities.

Future-Ready Platform

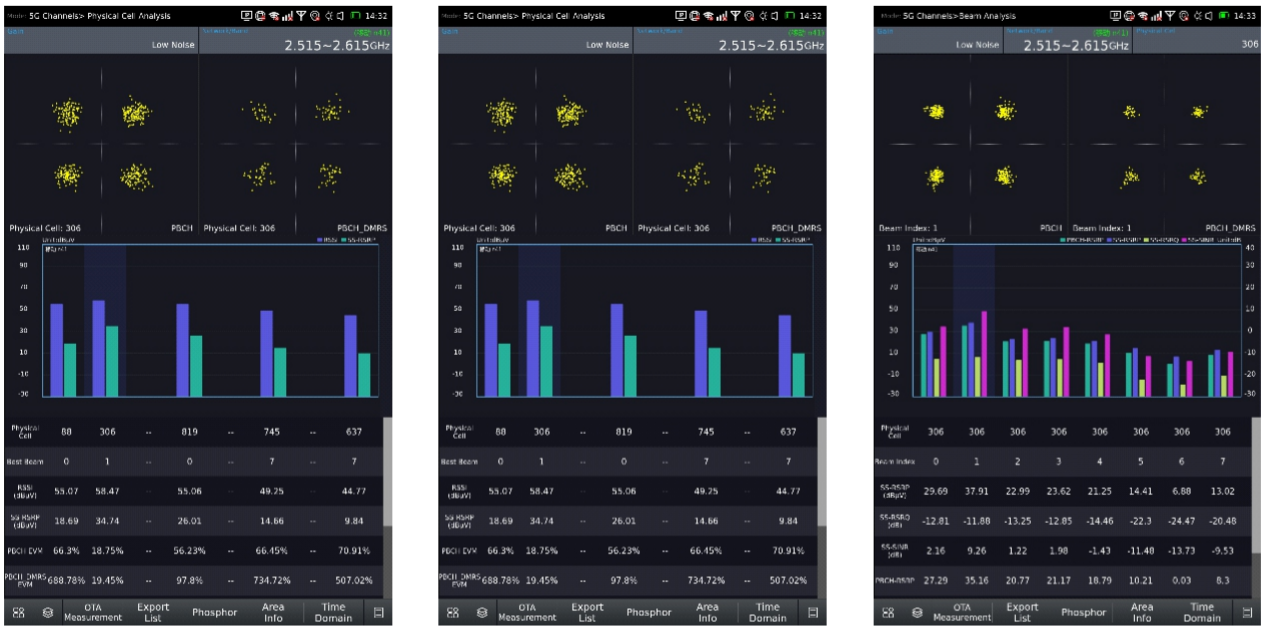
Designed on an extensible app-based platform, it supports feature expansions and updates to adapt to evolving technologies and user requirements.

Advanced Signal Processing
Supports FFT up to 200,000 frames per second with Digital Phosphor Spectrum and real-time time-domain analysis.

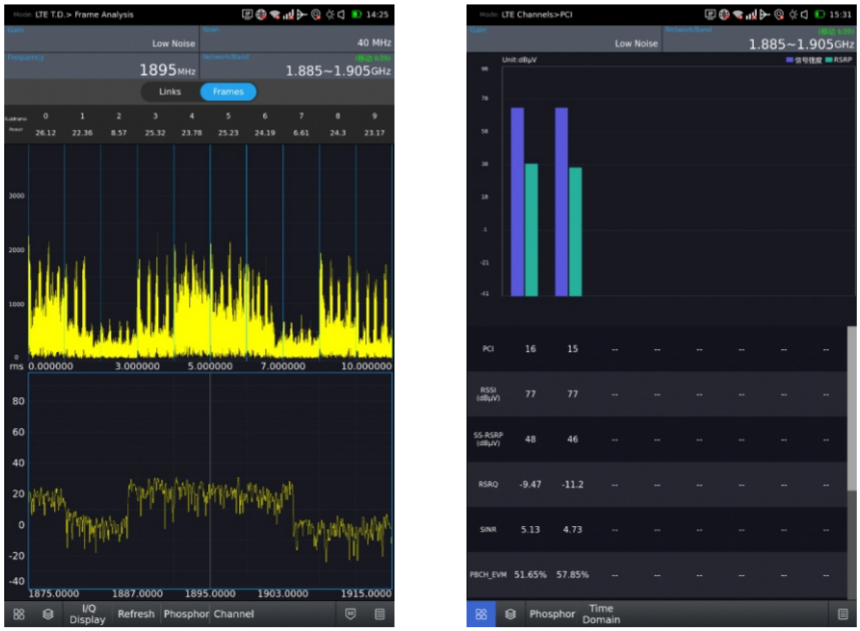
Powerful Mobile Network Analysis
Handles 2G to 5G NR signals, supports decoding broadcast parameters of base stations, providing information such as Base Station ID, MCC, and MNC. It also supports 5G base station beam analysis. For TDD-mode LTE and 5G networks, it can separate uplink and downlink signals in real time. Additionally, it enables direction finding of uplink interference signals separated in the time domain.

Efficient Signal Locating
Features vector diagrams, time-strength histograms, and audio tones to accurately pinpoint signal sources.

FUNCTIONS

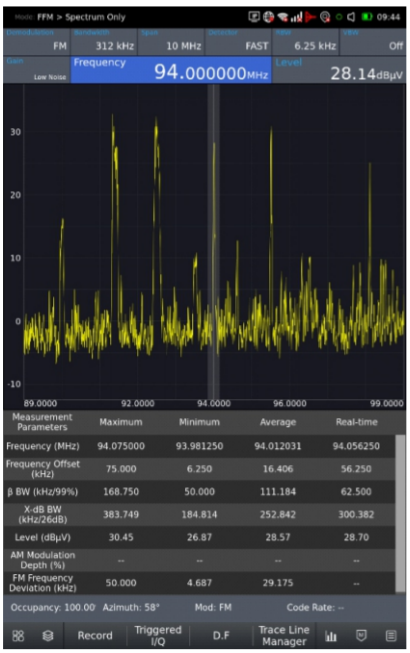


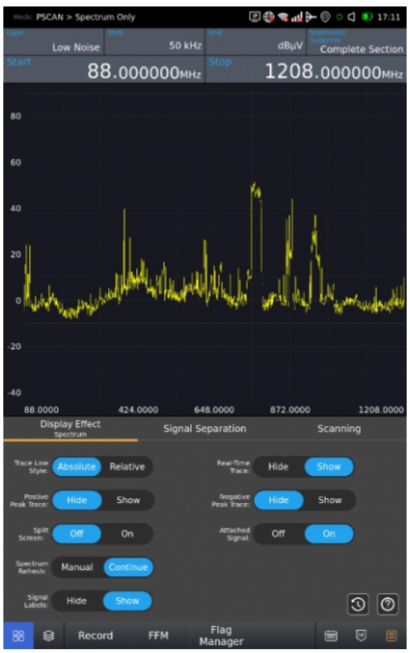
5G NR Analysis



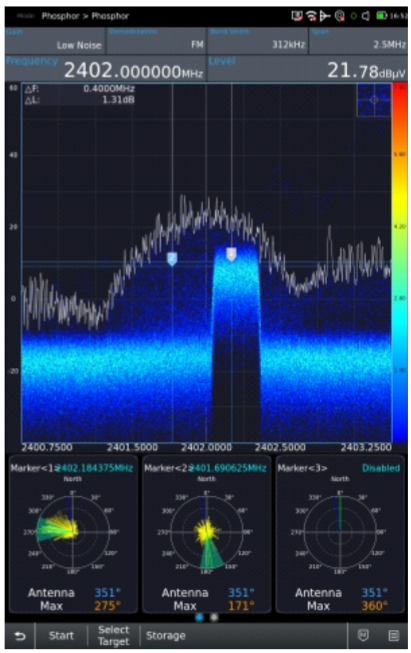
LTE Analysis

Direction-finding





Monitoring & Signal Analysis



Co-Frequency Signal Separation

TECHNICAL SPECIFICATIONS

ITEM	SPECIFICATION
Frequency Range	9kHz ~ 9GHz (Can be extend to 40 GHz)
Frequency Tuning Resolution	⩽10 Hz
Frequency Accuracy	⩽1 ppm
IF Bandwidth	⩾40 MHz (f < 2 MHz) ⩾80 MHz (2 MHz ⩽f < 1.2 GHz) ⩾160 MHz (1.2 GHz ⩽f ⩽40 GHz)
Scanning Speed	⩾80 GHz/s (step= 25 kHz, 2 MHz ⩽f < 1.2 GHz) ⩾160 GHz/s (step= 25 kHz, 1.2 GHz ⩽f ⩽40 GHz)
Noise Factor	⩽12 dB (low noise mode, 2 MHz ~ 9 GHz) ⩽15 dB (low noise mode, 9 GHz ~ 26.5 GHz) ⩽18 dB (low noise mode, 26.5 GHz ~ 40 GHz)
DANL	-155 dBm/Hz (Typical)
Working Weight	⩽3.5 kg (host+battery, without handle and antennas)
Battery Working Time	⩾3 hours (per battery)

APPLICATIONS

Spectrum Management
Ideal for detecting and analyzing unauthorized signals and interference.

Emergency Response
Ensures reliable spectrum monitoring during critical operations.

Telecommunications
Assists operators with LTE/5G signal decoding and interference management.

Security and Defense
Locates and identifies unauthorized transmissions in sensitive areas.