

JDSU

JD745A

The JDSU JD745A CellAdvisor Base Station Analyzer is a comprehensive, portable solution designed for installing and maintaining cell sites. It integrates multiple test functions into a single handheld unit, including a spectrum analyzer, cable and antenna analyzer, power meter, and optional signal analyzers, optimized for fast and accurate RF analysis.

SPECIFICATIONS

General

Interfaces	USB Host (2x Type A), USB Client (1x Mini-B), LAN (RJ-45), GPS (SMA), 10 MHz Ref In (BNC)
Display	8.0-inch color TFT touchscreen, 800 x 600 resolution
Warm-up Time	5 minutes
Battery Charge Time	< 4 hours (with instrument powered off)

Physical

Power Supply	100 to 240 V AC, 50 to 60 Hz external adapter; 19 V DC, 4.7 A device input; Rechargeable Li-Ion battery
Operating Temperature	-10 °C to +50 °C °C
Dimensions (W×H×D)	290 mm × 195 mm × 75 mm mm
Weight	3.2 kg
Form Factor	Handheld

Spectrum Analyzer

Spectrum Analyzer Frequency Range	100 kHz to 4.0 GHz
Resolution Bandwidth (RBW)	10 Hz to 3 MHz
Video Bandwidth (VBW)	1 Hz to 3 MHz
Phase Noise	-100 dBc/Hz @ 10 kHz offset (typical)
Maximum Safe Input Power	+30 dBm
Maximum Rated DC Voltage	±50 V DC
Displayed Average Noise Level (DANL)	-155 dBm/Hz (typical, preamplifier on, 10 MHz to 2.4 GHz)
Third-Order Intercept (TOI)	+15 dBm (typical, @ 2 GHz)
Second Harmonic Distortion (SHD)	-70 dBc (typical, @ 2 GHz)
Sweep Time Range	10 ms to 1000 s (span ≥ 10 Hz), 10 us to 1000 s (zero span)
Amplitude Accuracy	±1.0 dB (10 MHz to 4.0 GHz, typical)
Input VSWR	< 1.5 (10 MHz to 4.0 GHz)
RF Input Attenuator Range	0 to 50 dB in 5 dB steps

Cable & Antenna Analyzer

Cable and Antenna Analyzer Frequency Range	5 MHz to 4.0 GHz
Frequency Resolution	10 kHz
Directivity	>42 dB (after calibration)
Reflection Measurements	Return Loss, VSWR
Distance-to-Fault (DTF) Measurements	DTF Return Loss, DTF VSWR
1-Port Cable Loss	Supported
1-Port Phase	Supported
2-Port Transmission	Supported

Power Meter

Internal RF Power Meter Frequency Range	10 MHz to 4.0 GHz
Internal RF Power Meter Display Range	-120 dBm to +30 dBm
Internal Power Meter Accuracy	Same as Spectrum Analyzer Amplitude Accuracy

Timebase

Internal Timebase Aging Rate	±0.5 ppm/year
Internal Timebase Temperature Stability	±0.05 ppm

Display & Storage

Display Size	8.0 inches (20.3 cm) diagonal
Display Type	Color TFT LCD resistive touch screen
Internal Storage	4 GB

Connectivity & Ports

RF In Port Connector	Type-N, female (50 Ω)
RF Out / SWR Port Connector	Type-N, female (50 Ω)
External Reference Port	BNC, female (10 MHz)
GPS Antenna Port	SMA, female
USB Host Interfaces	2x USB Type A
USB Client Interface	1x Mini-USB Type B
LAN Interface	RJ-45, 10/100 Base-T

Power Specifications

AC/DC Adapter Input Rating	100 V AC to 240 V AC, 50 Hz to 60 Hz
DC Device Input Voltage	19 V DC
Battery Chemistry	Lithium-Ion
Battery Operating Time	> 3 hours (typical)

Environmental

Storage Temperature	-40 °C to +80 °C (without battery)
Operating Humidity	95% R.H. (non-condensing)

Configurations & Options

Optional Signal Analyzers	LTE-FDD, LTE-TDD, WCDMA/HSDPA, GSM/GPRS/EDGE, cdma2000, 1xEV-DO, TD-SCDMA
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Cable and Antenna Analyzer

Trace Data Points	126, 251, 501, 1001, 2001
RF Output Power	High (0 dBm typical) / Low (-30 dBm typical)
Return Loss Resolution	0.01 dB
VSWR Resolution	0.01
Distance-to-Fault Range	0 to 1500 m

Display

Display Resolution	800 × 600 pixels (SVGA)
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Environmental & Mechanical

Environmental Compliance	MIL-PRF-28800F Class 2
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GPS Receiver

GPS Receiver Channels	12 channels
GPS Position Accuracy	< 3 m (10 ft) CEP

RF Power Meter

Compatible External Power Sensors	JD724C, JD725C, JD731C, JD732C, JD733C, JD734C, JD736C
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TECHNOLOGY

Base Station Analyzer

APPLICATIONS

Cellular base station installation, RF commissioning, interference troubleshooting, and antenna line testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.