Key Benefits

- Performs comprehensive signal analysis for complete site profile and monitoring of signal environment
- Quickly identifies, locates, and maps signal interference
- High-speed analyzer measures 30 GHz/s @ 7.8 kHz RBW
- Frequency range 9 kHz ~ 6.0 GHz
- Rugged, lightweight design built to withstand harsh environments
- Functions include occupied bandwidth, channel power, ACLR
- Dual-spectrum and spectrogram measurements
- Verifies RF transmission
- 10.1” capacitive touchscreen for easy control & visibility in all lighting conditions
- Numerous data transfer options: LAN, USB, & more

Verify RF Transmission.
Identify and locate signal interference.
Confirm coverage.

Today’s wireless spectrum is shared by a host of communications systems and services, including mobile communications, radio, wireless local-area networks, and digital video broadcasting. The same spectrum is shared by licensed and unlicensed transmitters alike, often hampered by impairments like reflection and fading. The result is a signal environment of extreme complexity, which must be cleared and routinely monitored in order to maximize service performance.

Designed specifically for wireless communications field engineers and technicians, the E8400B/E8600B SpectrumPROFILER provides all the measurement functions and performance specs you need to accurately characterize the signal environment. It can detect, locate, identify, and clear signal interference, all in one lightweight handheld instrument.

Standard Measurements

- Spectrum analysis
- Channel power
- Occupied bandwidth (OBW)
- Adjacent channel leakage ratio (ACLR)
- Field strength
- FM/AM

Optional Measurements

- Interference analyzer
- Indoor and outdoor coverage mapping
- High-precision power meter
- Tracking generator
- GPS
- FDD-TLE analysis and air interface testing
- TDD-TLE analysis and air interface testing
## Specifications

<table>
<thead>
<tr>
<th>Spectrum Analysis</th>
<th>E8400B</th>
<th>E8600B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency range</td>
<td>9 kHz ~ 4.4 GHz</td>
<td>9 kHz ~ 6 GHz</td>
</tr>
<tr>
<td>Resolution</td>
<td>1 Hz</td>
<td></td>
</tr>
<tr>
<td>Aging</td>
<td>&lt; ±1.0 ppm/year</td>
<td></td>
</tr>
<tr>
<td>Frequency span</td>
<td>1 kHz ~ 6 GHz; zero span</td>
<td></td>
</tr>
<tr>
<td>Resolution bandwidth</td>
<td>1 Hz ~ 3 MHz</td>
<td></td>
</tr>
<tr>
<td>Video bandwidth</td>
<td>1 Hz ~ 3 MHz</td>
<td></td>
</tr>
<tr>
<td>Spectral purity / phase noise</td>
<td>1 kHz offset -90 dBc / Hz</td>
<td>1 kHz offset -100 dBc / Hz</td>
</tr>
<tr>
<td></td>
<td>10 kHz offset -10 dBc / Hz</td>
<td>10 kHz offset -105 dBc / Hz</td>
</tr>
<tr>
<td>Dynamic range</td>
<td>&gt; 100 dB</td>
<td></td>
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<tr>
<td>Measurement range</td>
<td>DANL to maximum safe input level</td>
<td></td>
</tr>
<tr>
<td>RF max input</td>
<td>+30 dBm peak (typical); 50 VDC (&gt;15 dB attenuation)</td>
<td></td>
</tr>
<tr>
<td>Amplitude accuracy</td>
<td>± 1.0 dB</td>
<td></td>
</tr>
<tr>
<td>Attenuation range</td>
<td>0 ~ 55 dB in 1-dB steps</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>8.4” 800 x 600 TFT LCD touchscreen</td>
<td></td>
</tr>
<tr>
<td>RF input</td>
<td>Type-N (f), 50Ω</td>
<td></td>
</tr>
<tr>
<td>Data transfer</td>
<td>2x USB 2.0 ports; 1x Ethernet LAN 10M / 100M port</td>
<td></td>
</tr>
<tr>
<td>Data storage</td>
<td>1 GB (&gt;2000 saved measurement files) internal HD</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td>Li-Ion, 11.1V / 5.2Ah</td>
<td></td>
</tr>
<tr>
<td>Adapter</td>
<td>19V / 3.42Ah; 100 ~ 240 VAC; 50 ~ 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Operating time</td>
<td>&gt; 6 hours’ continuous operation; 8 hours idle</td>
<td></td>
</tr>
<tr>
<td>EMC compliance</td>
<td>IEC/EN 61326-1:2006</td>
<td></td>
</tr>
<tr>
<td>Shock</td>
<td>MIL-PRF-28800F Class 2</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-10 ~ +55°C</td>
<td></td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-40 ~ +80°C</td>
<td></td>
</tr>
<tr>
<td>Dimensions (LxWxH)</td>
<td>10.9” x 8.5” x 3.4” (278mm x 217mm x 87mm)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>6.6 lbs (3 kg)</td>
<td></td>
</tr>
</tbody>
</table>

### Optional Accessories

**RF test port cable**, armored, 1.5m, N(m) to N(f), 6 GHz, 50Ω
**RF test port cable**, armored, 1.5m, N(m) to 7/16 DIN(f), 6 GHz, 50Ω
**RF test port cable**, armored, 1.5m, N(m) to 7/16 DIN(m), 6 GHz, 50Ω
**RF test port cable**, armored, 3.0m, N(m) to 7/16 DIN(f), 6 GHz, 50Ω
**RF test port cable**, armored, 3.0m, N(m) to 7/16 DIN(m), 6 GHz, 50Ω
**Adapter kit** [PNMDM, PNFDM, PNMDF, PNFDF, PDFDF, PDFDM 90°], 6 GHz, 50Ω
**Precision adapter**, N(m) to N(m), DC to 18 GHz, 50Ω
**Precision adapter**, N(f) to N(f), DC to 18 GHz, 50Ω
**Precision adapter**, N(f) to 7/16 DIN (m), DC to 6 GHz, 50Ω
**Precision adapter**, N(f) to 7/16 DIN (f), DC to 6 GHz, 50Ω
**Precision adapter**, N(f) to SMA(f), DC to 6 GHz, 50Ω

### General

- Display: 8.4” 800 x 600 TFT LCD touchscreen
- RF input: Type-N (f), 50Ω
- Data transfer: 2x USB 2.0 ports; 1x Ethernet LAN 10M / 100M port
- Data storage: 1 GB (>2000 saved measurement files) internal HD
- Battery: Li-Ion, 11.1V / 5.2Ah
- Adapter: 19V / 3.42Ah; 100 ~ 240 VAC; 50 ~ 60 Hz
- Operating time: > 6 hours’ continuous operation; 8 hours idle
- EMC compliance: IEC/EN 61326-1:2006
- Shock: MIL-PRF-28800F Class 2
- Operating temperature: -10 ~ +55°C
- Storage temperature: -40 ~ +80°C
- Dimensions (LxWxH): 10.9” x 8.5” x 3.4” (278mm x 217mm x 87mm)
- Weight: 6.6 lbs (3 kg)

### Standard Accessories

- Rechargeable Li-ion battery (11.1V, 5.2Ah)
- AC/DC adapter (19V, 3.42Ah)
- Vehicle plug-in charger
- Vinyl carrying case
- Companion software CD & user manual

### Standard Accessories

- 806-960 MHz, N(f), 10 dBi, Yagi
- 822-900 MHz, N(f), 10 dBi, Yagi
- 824-960 MHz, N(f), 10 dBi, Yagi
- 885-970 MHz, N(f), 10 dBi, Yagi
- 1710-1880 MHz, N(f), 10 dBi, Yagi
- 1850-1990 MHz, N(f), 10 dBi, Yagi
- 1920-2170 MHz, N(f), 10 dBi, Yagi
- 2400-2500 MHz, N(f), 10 dBi, Yagi
- 9 kHz to 20 MHz, log periodic
- 20 MHz to 200 MHz, log periodic
- 200 MHz to 500 MHz, log periodic
- 500 MHz to 3 GHz, log periodic

### Portable Antennas

- 470-860 MHz, SMA(m), 50Ω
- 806-866 MHz, SMA(m), 50Ω
- 870-960 MHz, SMA(m), 50Ω
- 1710 to 1880 MHz, SMA(m), 50Ω
- 1850 to 1990 MHz, SMA(m), 50Ω
- 1920 to 2170 MHz, SMA(m), 50Ω
- 2400 to 2500 MHz, SMA(m), 50Ω
- 5725 to 5875 MHz, SMA(m), 50Ω

### Power Sensors

- In-line Bi-directional high power sensor, 300 MHz ~ 4 GHz, 2mW ~ 150W, N(f) 50Ω
- Terminal power sensor

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