

ADVANTEST

U3772

The Advantest U3772 is one of the world's smallest and lightest microwave spectrum analyzers designed for field use, covering a broad frequency range from 9 kHz to 43 GHz. Offering flexible power options including AC, DC, and battery operation, the U3772 delivers high-quality analysis functions, a bright 6.5-inch color display, and versatile connectivity for field and benchtop applications.

SPECIFICATIONS

General

Display	6.5-inch color TFT LCD, 640 x 480 resolution
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Physical

Power Supply	Battery, DC (11 to 17 V), or AC (100 to 240 V, 50/60 Hz) powered
Operating Temperature	0 to +50 °C (0 to +40 °C with battery pack) °C
Dimensions (W×H×D)	308 mm × 175 mm × 209 mm mm
Weight	5.6 kg

Frequency Specifications

Frequency Range	9 kHz to 43 GHz
Residual FM	<= 60 Hzp-p x N / 100 ms

Inputs and Outputs

RF Input Impedance	50 Ω
RF Input Connector	2.4 mm (female)

Resolution and Bandwidth

Resolution Bandwidth (RBW) Range	100 Hz to 3 MHz
Video Bandwidth (VBW) Range	10 Hz to 3 MHz

Display and User Interface

External Storage Support	Supports USB Flash Memory
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Options and Accessories

Opt 20: High-Stability Frequency Reference Source	Option available
Opt 28: EMC Filter	Option available

Frequency

Frequency Span Range	0 Hz, 100 Hz to 43 GHz
Frequency Span Accuracy	±1%
Standard Reference Frequency Aging Rate	±2.0 ppm/year
Standard Reference Frequency Temperature Stability	±2.0 ppm (0 °C to 50 °C, referenced to 25 °C)
Reference Frequency	10 MHz
External Reference Input	10 MHz, -10 dBm to +10 dBm, BNC female

Sweep

Sweep Time Range (Span > 0 Hz)	20 ms to 1000 s
Sweep Time Range (Zero Span)	50 µs to 1000 s

Amplitude

Input Attenuator Range	0 to 50 dB in 10 dB steps
Maximum Safe Input Level	+30 dBm (with attenuator ≥ 10 dB)
Maximum DC Input Voltage	0 V DC
Display Scale (Log)	10 dB/div, 5 dB/div, 2 dB/div, 1 dB/div, 0.5 dB/div, 0.2 dB/div, 0.1 dB/div
Reference Level Range	-140 dBm to +30 dBm

Signal Processing

Detection Modes	Normal, Positive Peak, Negative Peak, Sample, RMS, Average
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Hardware Options

Option 12: LAN Interface	10/100Base-T (RJ-45) port
Option 16: GPIB Interface	IEEE-488 standard compliant port

Power

Power Consumption	≤ 100 VA (AC operation) or ≤ 40 W (DC operation)
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Signal Outputs

Calibration Output Frequency	20 MHz
Calibration Output Level	-20 dBm

Measurement Functions

Standard Measurement Functions	Channel Power, Occupied Bandwidth (OBW), Adjacent Channel Leakage Power (ACP), Spectrum Emission Mask, Spurious Measurement, x dB Down, Frequency Counter
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Options

Option 28 EMC Filter Bandwidths	200 Hz, 9 kHz, 120 kHz, 1 MHz (6 dB bandwidth)
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Power Supply

AC Power Input	100 to 240 VAC, 50/60 Hz
DC Power Input	11 to 17 VDC

General Specifications

Warm-up Time	5 minutes
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Environmental Specifications

Storage Temperature Range	-20 °C to +60 °C
Operating Humidity Range	85% RH or less (no condensation)

TECHNOLOGY

Superheterodyne Spectrum Analyzer

APPLICATIONS

Microwave and RF field testing, signal analysis, installation and maintenance

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