Spectrum Analyzers

ADVANTEST

U3741/3751 Compact Design with High Performance

Pioneering 3 GHz/8 GHz Spectrum Analyzers are Now Available!



The U3741/3751 portable spectrum analyzer supports a great range of applications, from use on production lines to system installation and maintenance. Its digital IF enables dramatic improvements in power measurement accuracy for digitally modulated signals. Moreover, the U3741/3751 provides twice the throughput of its predecessor. A light and compact 3 GHz/8 GHz spectrum analyzer, the U3741/3751 provides basic performance reliably and at a low cost.

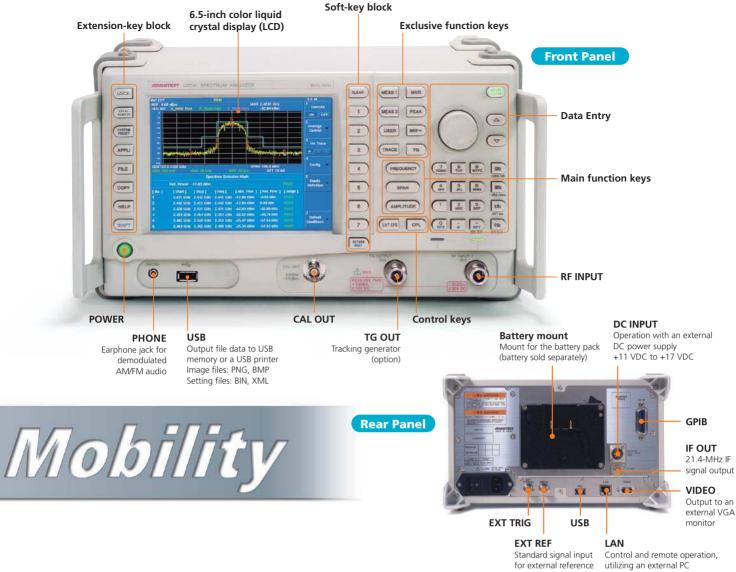
- Better measuring speed due to high-speed processing (twice as fast as its predecessor)
- Dramatically improved power measurement accuracy for digitally modulated signals
- Built-in 3 GHz/8 GHz pre-amp standard
- Average display noise level: -155 dBm/Hz@1 GHz, pre-amp ON
- Tracking generator covering a frequency range of 100 kHz to 3 GHz
- Option available for measurement of phase noise characteristics
- Lightweight and compact design, with a maximum weight of only 5.6 kg
- Continuous operation of up to 2.5 hours with the battery pack

Compact, Quality, and

U3741/3751 Web Demonstration

Please access to the **http://www.advantest.co.jp/en-index.shtml** and click on the following links. **PRODUCTS & SUPPORT** Electronic Measuring Instruments **Products** U3751

Compact compact



Option Guide

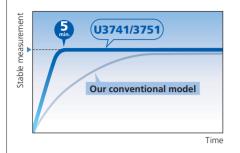
			Main un	it support
Product name	Model number	Overview	U3741 (9 kHz to 3 GHz)	U3751 (9 kHz to 8 GHz)
75 Ω Input Impedance	OPT.15	Used for measurement of CATV and TV signals	•	—
High-Stability Frequency Reference Source	ОРТ.20	High-stability reference oscillator with an aging rate of $\pm 2 \times 10^8$ /day, $\pm 1 \times 10^7$ /year	•	•
EMC Filter	OPT.28	CISPR bandwidths are available for EMI measurement. RBW (6 dB down): 200 Hz, 9 kHz, 120 kHz, 1 MHz	• 1)	1)
High-Purity Spectrum Analysis	ОРТ.70	High-purity spectrum analysis with -102 dBc/Hz @ 10 kHz offset (Typical) RBW 30 Hz has also been added.	• 1)	1)
75 Ω Tracking Generator	ОРТ.75	Used for evaluation of frequency characteristics in a range from 100 kHz to 2.2 GHz. Output power range: 107 to 47 dBµV	²⁾	—
50 Ω Tracking Generator	ОРТ.76	Used for evaluation of frequency characteristics in a range from 100 kHz to 3 GHz. Output power range: 0 to -60 dBm	• 1)	1)

1) OPT.15 and OPT.75 cannot be installed simultaneously. 2) OPT.15 is required, and cannot be installed simultaneously with OPT.76.

Compact Design with High Performance

5-minute warm-up time

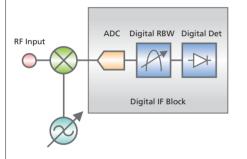
With the U3741/3751, warm-up time has been reduced to a scant 5 minutes (at an ambient temperature of 20 to 30°C). This shortened period virtually eliminates pre-warming time as a consideration, and permits quick and accurate measurement.



Improvements in overall accuracy

Digitized IF sections and innovative circuit technology dramatically improve absolute power measurement accuracy. ±0.8 dB (10 MHz to 3 GHz: U3741/3751)

±1.0 dB (3 to 8 GHz: U3751)



Up to 2.5 hours '1 of nonstop battery-driven operation

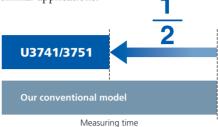
The spectrum analyzer uses one of three power systems: AC (100 V/200 V), DC (+11 V to +17 V), or the battery pack. This flexibility enables measurement in a variety of applications, whether in the factory or in the field.



- *1: Typical value at room temperature, without options
- *2: Twice that of its predecessor
- *3: Sample case where the frequency and span are specified, and the channel power measurement result is transferred

High throughput

This spectrum analyzer delivers data transfer speed superior to that of its predecessor. While the previous model delivered 875 ms, the U3741/3751 boasts a speed of 350 ms: double the system throughput ^{'2} (using the GPIB interface)^{'3}. This faster speed contributes to a significant reductions to cost of test on production lines and in similar applications.



Standard USB (1.1) interface

Screenshots in BMP or PNG format can easily be sent via USB external memory. Users can easily store data, and easily paste measurement data into reports.



Compact design

At about half the size of its predecessor, this spectrum analyzer offers a compact design while maintaining the same level of functionality. Its form factor gives it portability, enabling it to be used anywhere.



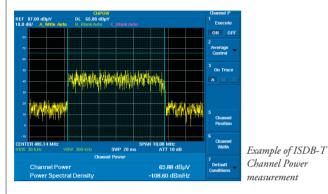
Extensive array of measurement functions

Measurement functions include Channel Power, Total Power, Avg Power, OBW, ACP, Spurious measurement, Harmonics measurement, IM measurement, Noise/Hz calculation functions, multi-marker (10 markers), delta marker, peak marker functions, a channel setting function, and a 3-trace simultaneous sampling function.

Measurement Functions

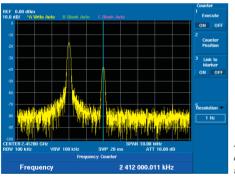
RMS Average, essential for power measurement

Power tends to be spread over a wide frequency range, and the peak factor tends to be higher in digital modulation, with it's expanded communication capacity. The U3741/3751 allows precise power measurements by determining the effective values (RMS values) from instantaneous power values obtained in high-speed sampling and translating them into a power spectrum. This method also enables measurement reproducibility of 0.01 dB in power measurement of digitally modulated signals.



Built-in frequency counter with 1-Hz resolution

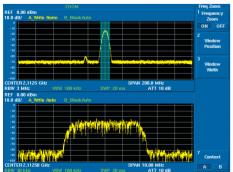
Frequency can be accurately measured by simply positioning the cursor on the target spectrum selected from multiple spectral lines. The U3741/3751 is indispensable for measuring the carrier wave frequency in a general multi-carrier system.



Example of multicarrier signal frequency measurement

Zoom function

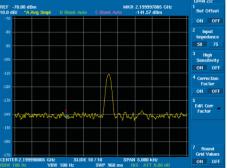
The measuring window and F-F mode can facilitate analysis of a specific signal in broadband measurement. Also, RBW can be changed independently, enabling high-speed measurement of the target signal in both broadband and narrowband. A variety of other signal analysis functions are also available, including those in F-T mode or T-T mode.



Example of two-screen sample from measurement in broadband and narrowband

Pre-Amp covering the 3 GHz/8 GHz bandwidth

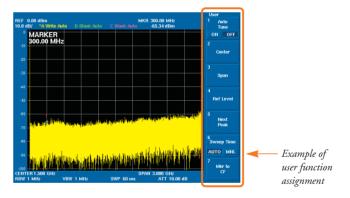
The U3741/3751 contains as standard a pre-amp that covers all frequency bands. In the analysis of faint signals, its input sensitivity can be equivalent to that of high-end models. Also, it effectively compensates for the loss from the antenna when measuring radio signals in an outdoor environment.



Example of highsensitivity measurement in high-sensitivity mode

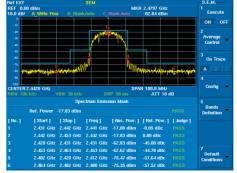
USER keys

An arbitrary key can be selected from the hierarchical function keys and assigned to a USER function. Users can thus configure their own, original setup for operations by assigning frequently used functions to specific software keys.



Spectrum emission mask function

Using tools such as a spectrum mask and limit line to judge PASS/FAIL is effective at improving production line throughput for digital appliances. Using the spectrum emission mask (SEM) function can facilitate measurement for standards such as wireless LAN.

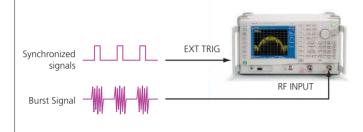


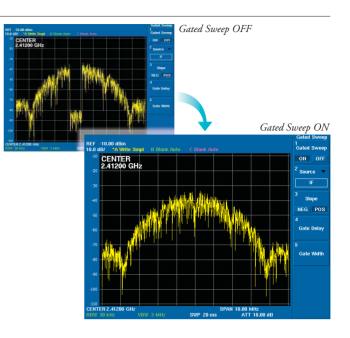
Example of S.E.M. measurement for wireless LAN

User-friendly and Convenient Functions

Gated Sweep function

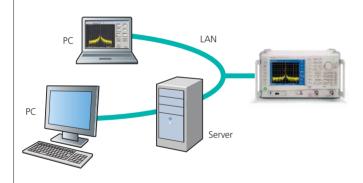
A radar or TDMA communication system controls its output transmission by turning the power on/off intermittently. To monitor the power spectrum during transmission, the Gated Sweep function is effective at analyzing the spectrum only when the signal is present and over only the area chosen. This function also includes an IF trigger that does not require synchronized signals.

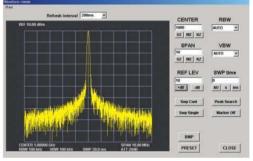




Ideal for remote operation/monitoring via a LAN

This spectrum analyzer is equipped with a 10/100BASE-T LAN port as standard, so it can be operated remotely from an external PC. It can be installed in an unattended radio transmission station, and remotely operated and monitored from another station.

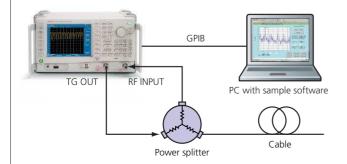


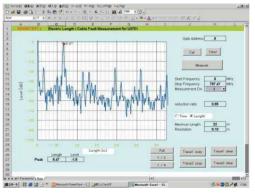


Screen of remote operation/monitoring from an external PC via LAN

Searching for the location of a fault in a coaxial cable

When used with its tracking generator option and the sample software for an external PC, the U3741/3751 can measure the distance to the failure point (open/short) in a coaxial cable. This application permits this distance to be measured from one end of the coaxial cable.



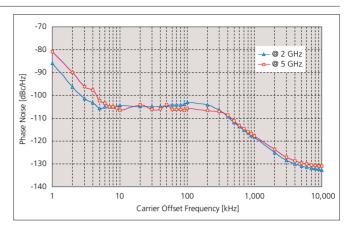


Screen for measuring the distance to a cable failure point

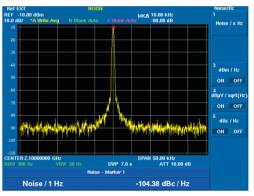
Extensive Array of Options

High-Purity Spectrum Analysis OPT.70

Phase noise measurement is indispensable to evaluation of the characteristics of high-frequency oscillation circuits or modules. The high-purity spectrum analysis option offered with the U3741/3751 can improve the phase noise measurement performance of the spectrum analyzer. Because the performance can be selected, selecting the most suitable spectrum analyzer for the device under test (DUT) is simple. At the same time, the added resolution bandwidth of 30 Hz enables reduction of the display average noise level and analysis in a high dynamic range.



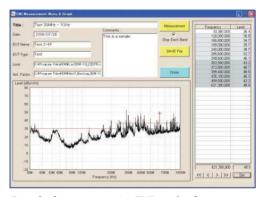
Phase noise characteristic graph (representative values)



Example of phase noise measurement

EMC Filter OPT.28

Option 28 adds 6 dB RBW CISPR bandwidths for EMI measurement of 200 Hz, 9 kHz, 120 kHz, and 1 MHz. A broadband sweep by the spectrum analyzer is very effective at measuring noise emitted from electrical devices. Installing OPT.28 allows measurement in CISPR-specified bandwidths. It enables simple, fast measurement using the Positive peak detector and Max Hold, which makes it effective at compensating for emitted noise. It guarantees an impulse bandwidth accuracy of 1 MHz. This capability conforms to the standard for noise measurement of 1 GHz or above.



Example of measurement using EMI sample software

Extensive Array of Options and Accessories

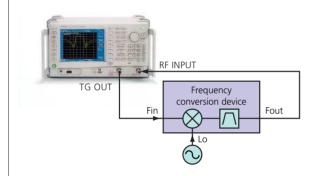
Tracking Generator OPT.75/76

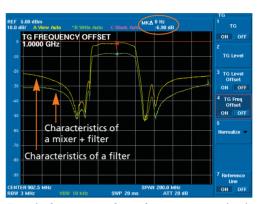
Generates synchronized signals for frequency sweeps by the spectrum analyzer.

OPT.75 Output impedance: 75 Ω
Output frequency range: 100 kHz to 2.2 GHz
OPT.76 Output impedance: 50 Ω
Output frequency range: 100 kHz to 3 GHz

Functions for evaluating frequency characteristics

The normalize function enables direct measurement of cable loss and filter characteristics. The frequency offset function of the tracking generator enables measurement of frequency characteristics and conversion loss characteristics of mixers and other frequency conversion devices.

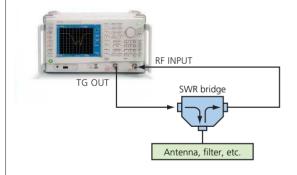


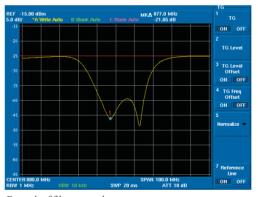


Example of measurement of mixer frequency conversion loss characteristics

Function for return loss measurement

The SWR bridge can be used to measure reflection characteristics of an antenna or filter. It can determine the return loss and evaluate the VSWR.





Example of filter return loss measurement

Accessories

Many accessories are available, including an easy-to-carry transit case and a battery pack, useful for field work.



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Specifications		Caliburation
Frequency		Calibration sign Frequency:
Frequency range U3741:	9 kHz to 3 GHz,	Level: Accuracy:
Pre-Amp:	9 kHz to 2.2 GHz (with the OPT.15 installed) 10 MHz to 3 GHz, 10 MHz to 2.2 GHz (with the OPT.15 installed)	Scale display ad Log:
Synchronizable		Overall amplitu
frequency range: U3751:	9 kHz to 3 GHz 9 kHz to 8 GHz	accuracy:
Frequency band:	9 kHz to 3.1 GHz (band 0),	
Pre-Amp:	3 GHz to 8 GHz (band 1) 10 MHz to 8 GHz	U3741:
Frequency reading		
accuracy:	± (marker read value x frequency reference accuracy + span x span accuracy + residual FM)	With the OP
Frequency reference stabili	ty	
Aging rate: Temperature stability:	±2 x 10⁵/year ±2.5 x 10⁵ (0 to 50°C)	U3751:
Frequency counter:	At a signal level S/N > 50 dB	
Resolution:	1 Hz to 1 kHz	
Accuracy:	± (counter read value x frequency reference accuracy + residual FM + 1 LSB)	
Frequency stability Residual FM (zero/span):	< 60 Hzp-p/100 ms (internal frequency reference)	Dynamic rang
Frequency span	E kHz to Euli zoro cnon	Displayed aver
Range:	5 kHz to Full, zero span 1 kHz to Full, zero span	noise level:
	(with the OPT.70 installed)	
Accuracy:	< ±1%	U3741
Spectrum purity:	-85 dBc/Hz (offset 10 kHz, span < 200 kHz)	Pre-Amp OFF
Resolution bandwidth		
Range: U3741:	100 Hz to 1 MHz (1 to 3 steps)	
007411	30 Hz to 1 MHz (with the OPT.70 installed)	Pre-Amp ON
U3751:	100 Hz to 3 MHz (1 to 3 steps) 30 Hz to 3 MHz (with the OPT.70 installed)	U3751:
Accuracy:	< ±12%	Pre-Amp OFF
Video bandwidth range:	10 Hz to 3 MHz (1 to 3 steps)	Pre-Amp ON:
Sweep		
Sweep time		1 dB gain comp U3741:
Setting range:	20 ms to 1000 s (spectrum mode) 50 μs to 1000 s (zero span)	Pre-Amp OFF
Accuracy:	< ±2% (zero span)	Pre-Amp ON
Sweep mode:	Continuous, single, gated	U3751:
Trigger function Trigger source:	Free run, video, external, IF	Pre-Amp OFF Pre-Amp ON
		Second harmor
Amplitude range		U3741:
Measurement range:	Noise level to +30 dBm Noise level to 134 dBµV (with the OPT.15 installed)	112754
Maximum safe input level:		U3751:
Pre-Amp OFF: Pre-Amp ON:	+30 dBm, 134 dBµV (with the OPT.15 installed) +13 dBm, 120 dBµV (with the OPT.15 installed)	
U3741:	±50 VDC max.	
U3751:	±15 VDC max.	Third order inte U3741:
Input attenuator range:	0 to 50 dB (10 dB steps)	05/41.
Display range:	100/50/20/10/5 dB, linear	
Scale unit:	dBm, dBmV, dBµV, dBµVemf, dBpW, W, V	U3751:
Reference level		
setting range:	-140 to +40 dBm -31.2 to 148.8 dBµV (with the OPT.15 installed)	Image/multip
Detection mode:	Normal, Positive peak, Negative peak,	bana response
	Sample, RMS, and Average	

ccuracy ınal 20 MHz -20 dBm (75 Ω, with the OPT.15 installed) ±0.3 dB, ±0.4 dB (with the OPT.15 installed) accuracv ±0.5 dB/10 dB, ±0.5 dB/80 dB, ±0.2 dB/1 dB tude After calibration, with the pre-amp OFF, and at a temperature ranging from 20 to 30°C Input attenuator 10 dB Reference level 0 dBm, input signal level -10 to -50 dBm ±1.0 dB (9 kHz to 3 GHz) ±0.8 dB (10 MHz to 3 GHz) PT.15 installed: Reference level 108.8 dBµV Input signal level 98.8 to 58.8 dBµV ±2.1 dB (9 kHz to 2.2 GHz) ±0.9 dB (10 MHz to 2.2 GHz) Reference level 0 dBm, input signal level -10 to -50 dBm Image suppression OFF ±1.5 dB (9 kHz to 10 MHz) ±0.8 dB (10 MHz to 3.1 GHz) ±1.0 dB (3.1 GHz to 8 GHz) ge rage Reference level < -45 dBm (63.8 dBµV, with the OPT.15 installed) **Resolution bandwidth 100 Hz** F: -123 dBm + 2f (GHz) dB (f < 2.5 GHz) -123 dBm + 2.5f (GHz) dB (f ≥ 2.5 GHz) -12 dB μ V + 2f (GHz) dB (f \leq 2.2 GHz, with the OPT.15 installed) ٧: -138 dBm + 3f (GHz) dB -27 dBµV + 3f (GHz) dB (with the OPT.15 installed) Frequency 10 MHz to 8 GHz F: -123 dBm + 2f (GHz) dB (f ≤ 3.1 GHz) -122 dBm + 1f (GHz) dB ($f \ge 3$ GHz) N: $-138 \text{ dBm} + 3f (\text{GHz}) \text{ dB} (f \le 3.1 \text{ GHz})$ -139 dBm + 1.3f (GHz) dB (f ≥ 3 GHz) pression Frequency > 20 MHz F: > -5 dBm > 102 dBµV (with the OPT.15 installed) ٧: > -25 dBm > 82 dBµV (with the OPT.15 installed) Frequency > 20 MHz F: > -8 dBm > -25 dBm Ŀ nic distortion <-70 dBc (Pre-Amp OFF, Frequency > 20 MHz, Mixer input level -30 dBm (77 dBµV, with the OPT.15 installed)) <-70 dBc (Pre-Amp OFF, Frequency > 200 MHz, Mixer input level -40 dBm) <-75 dBc (typ., Pre-Amp OFF, Frequency > 300 MHz, Mixer input level -30 dBm) termodulation distortion < -60dBc (Pre-Amp OFF, Mixer input level -20 dBm (88.8 dBµV, with the OPT.15 installed), Frequency > 10 MHz, 2 signal separation > 200 kHz) < -50 dBc (Pre-Amp OFF, Mixer input level -20 dBm, Frequency 10 MHz to 8 GHz, 2 signal separation > 200 kHz) le/out of < -60 dBc (Mixer input level -20 dBm se: (88.8 dBµV, with the OPT.15 installed), Image suppression ON (U3751)) onse < -90 dBm (Frequency > 1 MHz , Pre-Amp OFF) < 21 dBµV (with the OPT.15 installed) U3751: < -80 dBm (Frequency 10 MHz to 8 GHz, Pre-Amp OFF)

Inputs/outputs		General specifications	
RF input		Operating environment range	: Ambient temperature: 0 to + 50°C
Connector:	N-type female		Humidity: RH 85% or less (no condensation)
Impedance:	50 Ω (nominal)	Storage environment range:	-20 to +60°C, RH 85% or less
	75 Ω (nominal, with the OPT.15 installed)	AC power input:	Automatic switching to 100 VAC or 200 VAC
VSWR:	Input attenuator > 10 dB	· ·	100 V: 100 to 120 V, 50/60 Hz
U3741:	< 1.5 : 1		200 V: 220 to 240 V, 50/60 Hz
	< 1.6 : 1 (with the OPT.15 installed)	DC power input:	DC + 11 V to +17 V
U3751:	< 1.7 : 1 (Frequency < 3.0 GHz)	Power consumption:	100 VA or less (AC operation)
	< 2.0 : 1 (Frequency > 3.0 GHz)		70 W or less (DC operation)
Calibuation signal autout		Mass	• •
Calibration signal output Connector:	BNC female	U3741:	5 kg or less (without option)
		U3751:	5.6 kg or less (without option)
Impedance:	50 Ω (nominal)	External dimensions	
-	75 Ω (nominal, with the OPT.15 installed)	(W x H x D):	Approx. 308 x 175 x 209 mm
Frequency:	20 MHz		(not including protruding parts)
Level:	-20 dBm		Approx. 337 x 190 x 307 mm
Frequency reference input			(including the handle and feet)
Connector:	BNC female		
Impedance:	50 Ω (nominal)		
Frequency (MHz):	1, 1.544, 2.048, 5, 10, 12.8, 13, 13.824, 14.4,	OPT.20 High-Stability Frequ	uency Reference Source
	15.36, 15.4, 16.8, 19.2, 19.44, 19.6608,	Frequency reference stability	
	19.68, 19.8, 20, 26	Aging rate:	±2 x 10 [*] /day
Level:	0 to +16 dBm		±1 x 10 ⁻⁷ /year
		Warm-up drift:	±5 x 10 [°] (+25°C, 10 minutes after power-on)
External trigger input		Temperature stability:	$\pm 5 \times 10^{\circ}$ (0 to $\pm 40^{\circ}$ C, with reference to 25°C)
Connector:	BNC female		
Impedance:	10 k Ω (nominal), DC coupling		
Level:	0 to +5 V	OPT.28 EMC Filter	
21.4-MHz IF output		6 dB bandwidth:	200 Hz, 9 kHz, 120 kHz, 1 MHz
Connector:	BNC female	Bandwidth accuracy:	< ±10%
Impedance:	50 Ω (nominal)		
Level:	Approx. mixer input level + 10 dB		
	(at a frequency of 20 MHz)	OPT.70 High-Purity Spectru	im Analysis
Battery mount		Frequency span	
Connector:	AntonBauer QR mount	Range:	1 kHz to Full, zero span
		Accuracy:	< ±1%
External DC power input		Resolution bandwidth	
Connector:	XLR-4	Range:	U3741: 30 Hz to 1 MHz (1 to 3 steps)
Voltage range:	+11 to +17 V	Kange.	U3751: 30 Hz to 3 MHz (1 to 3 steps)
GPIB:	IEEE-488 bus connector	Accuracy:	< ±12%
USB:	USB 1.1		
Video output connector:	D-sub15 pin female	Spectrum purity:	≤ -98 dBc/Hz (offset 10 kHz, span ≤ 1 MHz)
LAN connector:	RJ45 type, 10/100 base-T		-102 dBc/Hz (Typical)
Audio output:	Small monophonic jack	Displayed average noise level	· Reference level < -45 dBm
		Displayed average holse level	Resolution bandwidth 30 Hz
		U3741:	Frequency 10 MHz to 3 GHz
			-126 dBm + 2f (GHz) dB (f < 2.5 GHz)
		Pre-Amp OFF:	
		Bro Amn ON	-126 dBm + 2.5f (GHz) dB (f ≥ 2.5 GHz)
		Pre-Amp ON:	-141 dBm + 3f (GHz) dB
		U3751:	Frequency 10 MHz to 8 GHz
		Pre-Amp OFF:	-126 dBm + 2f (GHz) dB (f ≤ 3.1 GHz)
			-125 dBm + 1f (GHz) dB (f ≥ 3 GHz)
		Pre-Amp ON:	-141 dBm + 3f (GHz) dB (f ≤ 3.1 GHz) -142 dBm + 1.3f (GHz) dB (f ≥ 3 GHz)

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OPT.75 75 Ω **Tracking Generator** 100 kHz to 2.2 GHz Frequency range: **Frequency offset** 0 Hz to 1 GHz Range: Accuracy: ±300 Hz Resolution: 1 kHz Output level range: 107 to 47 dBµV (0.5 dB steps) Output level accuracy: ±0.5 dB (20 MHz, 97 dBµV, +20 to +30°C) **Output level flatness:** Using 20 MHz and 97 dBµV as a reference ±1.0 dB (1 MHz to 1 GHz) ±1.5 dB (100 kHz to 2.2 GHz) Using 20 MHz and 97 dBuV as a reference Output level switch error: ±1.0 dB (1 MHz to 1 GHz, 107 to 47 dBµV) ±2.0 dB (1 MHz to 2.2 GHz, 107 to 47 dBµV) Frequency offset OFF: ±3.0 dB (100 kHz to 2.2 GHz, 107 to 77 dBµV) ±4.0 dB (100 kHz to 2.2 GHz, 76.5 to 47 dBµV) Frequency offset ON: ±5.0 dB (100 kHz to 2.2 GHz) Output level 97 dBuV Output spurious: < -15 dBc (100 kHz to 1 MHz) Harmonic: < -20 dBc (1 MHz to 2.2 GHz) Non-harmonic: < -20 dBc (Frequency offset OFF) TG leakage: < 31 dBµV (Input attenuator 0 dB) **Output impedance:** 75 Ω (nominal) VSWR: ≤ 2.0 : 1 (Output level ≤ 97 dBµV) Maximum allowable level: 117 dBµV, ±10 VDC

OPT.76 50 Ω Tracking Generator

Frequency range:	100 kHz to 3 GHz
Frequency offset	
Range:	0 Hz to 1 GHz
Accuracy:	±300 Hz
Resolution:	1 kHz
Output level range:	0 to -60 dBm (0.5 dB steps)
Output level accuracy:	±0.5 dB (20 MHz, -10 dBm, +20 to +30°C)
Output level flatness:	Using 20 MHz and -10 dBm as a reference
	±1.0 dB (1 MHz to 1 GHz)
	±1.5 dB (100 kHz to 3 GHz)
Output level switch error:	Using 20 MHz and -10 dBm as a reference
	±1.0 dB (1 MHz to 1 GHz, 0 to -60 dBm)
	±2.0 dB (1 MHz to 2.6 GHz, 0 to -60 dBm)
Frequency offset OFF:	±3.0 dB (100 kHz to 3 GHz, 0 to -30 dBm)
	±4.0 dB (100 kHz to 3 GHz, -30.5 to -60 dBm)
Frequency offset ON:	±5.0 dB (100 kHz to 3 GHz)
Output spurious:	Output level -10 dBm
Harmonic:	< -15 dBc (100 kHz to 1 MHz)
	< -20 dBc (1 MHz to 3 GHz)
Non-harmonic:	< -20 dBc (Frequency offset OFF)
TG leakage:	< -80 dBm (Input attenuator 0 dB)
Output impedance:	50 Ω (nominal)
VSWR:	≤2.0 : 1 (Output level ≤ -10 dBm)
Maximum allowable level:	+10 dBm, ±10 VDC

Ordering information

Main unit		
Spectrum analyzer:	U3741	
	U3751	
Accessories		
Operating manual (CD):	BU3700S	
Power cable:	A01412	
Input cable:	A01037-0300	
With the OPT.15 installed:	D3C0025-S-SA	
N-BNC adapter:	JUG-201A/U	
With the OPT.15 installed:	BA-A165	
NC-F adapter (with the OPT.15 installed):	NCP-NFJ	
Ferrite core:	ESD-SR-120	
Options		
75 Ω Input Impedance:	OPT.15	
High-Stability Frequency Reference Source:	OPT.20	
EMC Filter:	OPT.28	
High-Purity Spectrum Analysis:	OPT.70	
75 Ω Tracking Generator:	OPT.75	
50 Ω Tracking Generator:	OPT.76	
Accessories		
Japanese operating manual (printed manual):	JU3700S	
English operating manual (printed manual):	EU3700S	
Battery pack:	A870008	
Charger:	A870009	
75 Ω input impedance converter:	ZT-130NC	
DC power cable:	A114020	
Carrying bag:	A129001	
Transit case:	A129002	
Rack mount kit (JIS):	A122003	
Rack mount kit (EIA):	A124004	

Note on accessories:

The operating manual on the CD is supplied as standard.

The printed version of the operating manual is offered as an accessory.

Please refer to product manual for complete system specifications. Specifications may change without notification.



http://www.advantest.co.jp

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