Keysight U2020 X–Series USB Peak and Average Power Sensors

The U2020 X-Series is BenchVue software enabled.

Accelerate your production throughput

Secure USB cable locking mechanism

Compact, lightweight and portable form factor

Built-in trigger in and trigger out function

Trig In   Trig Out

USB 2.0 – compliant cable for connection to PC or other instruments

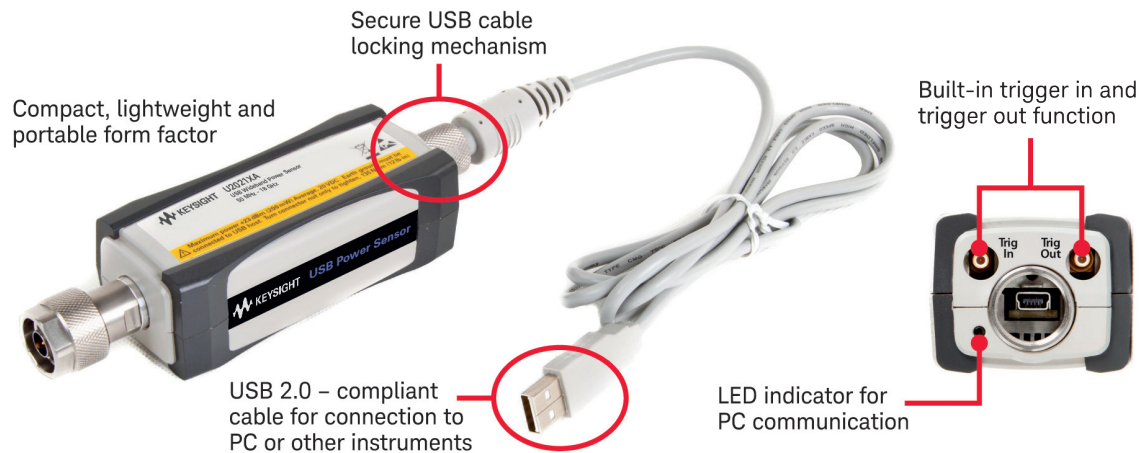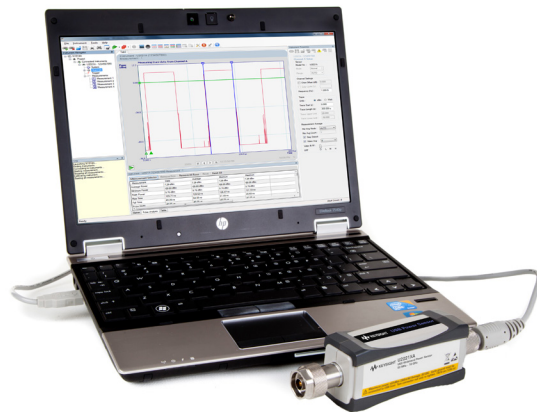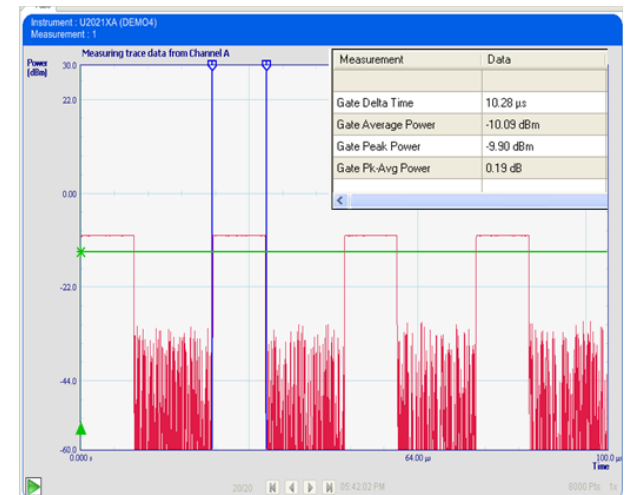LED indicator for PC communication

Key features

– Cover high frequency test applications up to 40 GHz
– Save time and reduce measurement uncertainty with internal zeroing and calibration
– Initiate measurements automatically with the built-in trigger in/trigger out function
– Get the peak and average power measurement capability of a power meter in a compact and portable form factor
– Make measurements and analyses easily with the N1918A software or BenchVue software
– Set up faster with built-in radar and wireless presets

Instrument : U2021XA (DEMO4) Measurement : 1	
Measurement	Data
Gate Delta Time	10.28 µs
Gate Average Power	-10.09 dBm
Gate Peak Power	-9.90 dBm
Gate Pk-Avg Power	0.19 dB

The time gated function enables measurement of peak, average, and peak-to-average ratio of a single burst signal for wireless signals such as Wimax, LTE, WLAN, MIMO.

Intuitive power measurement software

The Keysight Technologies, Inc. U2020 X-series USB power sensors are bundled with a free N1918A Option 100 Power Analyzer PC license key. Simply connect the USB power sensor and the PC will recognize the license.

The U2020 X-Series is also supported by the Keysight BenchVue software (version 2.5 and above). Control your USB power sensor to log data and visualize measurements in a wide array of display options.

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Key specifications

Part	Description
Video bandwidth	30 MHz
Sampling rate	80 MSa/s
Frequency range	50 MHz to 18 GHz/40 GHz
Power range (average)	–45 to +20 dBm (65 dB)
Power range (gated average)	–30 to +20 dBm (50 dB)
Power range (peak)	–30 to +20 dBm (50 dB)
Measurement speed	Up to 25,000 readings/s
Linearity	< 1%

Ordering information

Model	Description
U2021XA	X-Series USB peak and average power sensor, 50 MHz to 18 GHz
U2022XA	X-Series USB peak and average power sensor, 50 MHz to 40 GHz
Standard shipped items	
Power sensor cable 5 ft (1.5 m), default cable length	
BNC male to SMB female trigger cable, 50 Ω, 1.5 m (ships with 2 quantities)	
Certificate of calibration	
CD documentation	
N1918A Power Analysis Manager software CD	
Keysight Instrument Control DVD (contains IO Libraries Suite, Command Expert and BenchVue software)	

Ordering information (continued)

Options	Description
Travel kits	
U2000A-201	Transit case
U2000A-202	Soft carrying case
U2000A-203	Holster
U2000A-204	Soft carrying pouch
Cables (selectable during sensor purchase)	
U2000A-301	Power sensor cable, 5 ft (1.5 m)
U2000A-302	Power sensor cable, 10 ft (3 m)
U2000A-303	Power sensor cable, 16.4 ft (5 m)
Cables (ordered standalone)	
U2031A	Power sensor cable, 5 ft (1.5 m)
U2031B	Power sensor cable, 10 ft (3 m)
U2031C	Power sensor cable, 16.4 ft (5 m)
U2032A	BNC male to SMB female trigger cable, 50 Ω, 1.5 m
Calibration	
U202xXA-1A7	ISO17025 compliant calibration and test data
U202xXA-A6J	ANZIZ540 compliant calibration and test data
Software	
BV0007A	BenchVue Power Meter Pro App license

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Keysight Services helps you improve productivity and product quality with our comprehensive service offerings of one-stop calibration, repair, asset management, technology refresh, consulting, training, and more.

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