

# UTS3000A Series NEW

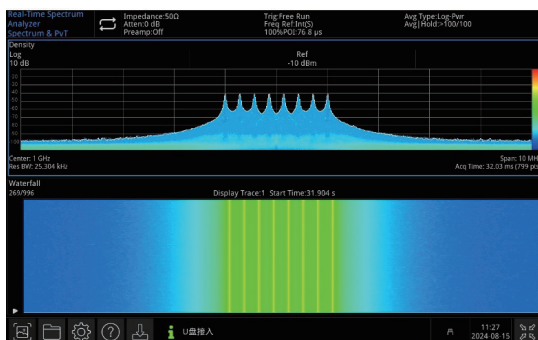
## Signal Analyzers



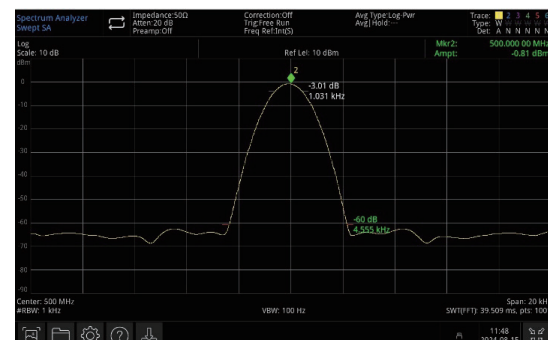
The UTS3000A series is a signal analyzer with a frequency range of 9 kHz to 8.4 GHz. It can be used as the main equipment required to build an automatic control system. It can also meet your needs in the test systems required for corporate R&D/factory production/education and scientific research, etc.

- Frequency range 9 kHz to 8.4 GHz
- DANL: -165 dBm (typical value)
- Phase noise: <-100 dBc/Hz (at 10 kHz offset, typical)
- Scan points up to 40001 points
- Minimum Resolution Bandwidth (RBW) 1 Hz
- Support advanced one-key measurement (option)
- EMI Analysis Function (optional)

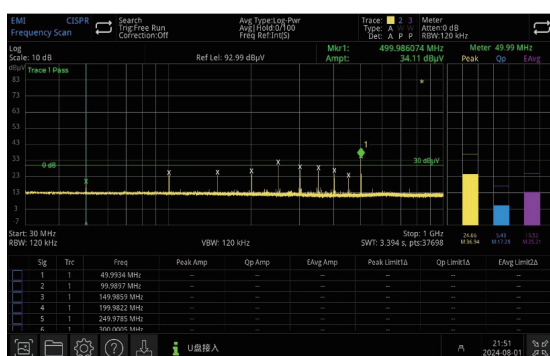
- Support Analog Demodulation Analysis (optional)
- Support Digital Demodulation Analysis (optional)
- Support Real-time Spectrum Analysis
- Support I/Q Analysis (optional)
- Support Vector Network Analysis
- 10.1 inch high-definition capacitive touch display



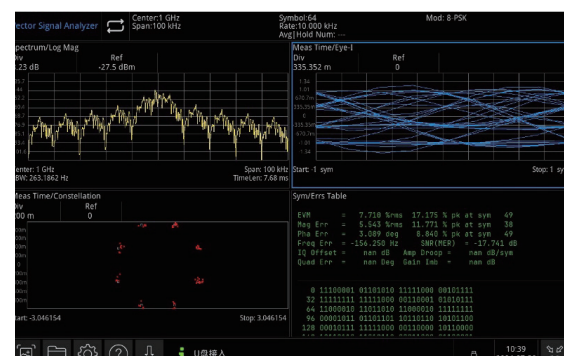
- Real-time spectrum mode, using density spectrograms for gapless spectrum display.



- Excellent selectivity.



- EMI pre-compliance



- Provide AM/FM/PM analog signal analysis; ASK/FSK/PSKQAM/MSK/DPSK digital signal analysis and EVM calculation

| Key Specifications           | UTS3036A                                                                                                                                                                                         | UTS3060A           | UTS3084A           |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|--------------------|
| Frequency range              | 9kHz-3.6 GHz                                                                                                                                                                                     | 9kHz-6.0 GHz       | 9kHz- 8.4 GHz      |
| Frequency resolution         | 1Hz                                                                                                                                                                                              | 1Hz                | 1Hz                |
| Sweep width range            | 0Hz,100Hz- 3.6GHz                                                                                                                                                                                | 0Hz,100Hz - 6.0GHz | 0Hz,100Hz - 8.4GHz |
| Sweep accuracy               | Swept: $\pm[0.25\% \times \text{span} + \text{span}/(\text{sweep point} - 1)]$                                                                                                                   |                    |                    |
|                              | FFT: $\pm[0.10\% \times \text{span} + \text{span}/(\text{sweep point} - 1)]$                                                                                                                     |                    |                    |
| Sweep time                   | Span = 0 Hz, 1 $\mu$ s to 4000 s; Span $\neq$ 0 Hz, 1 ms to 4000 s                                                                                                                               |                    |                    |
| Marker mode                  | Normal, Delta $\Delta$ , Fixed                                                                                                                                                                   |                    |                    |
| Marker function              | Marker Noise, Band Power, Band Density, N dB, Counter                                                                                                                                            |                    |                    |
| RBW (-3 dB)                  | 1 Hz - 10MHz (1-3-10 step)                                                                                                                                                                       |                    |                    |
| Video bandwidth (VBW)        | 1 Hz - 10MHz (1-3-10 step)                                                                                                                                                                       |                    |                    |
| Selectivity (-60 dB/-3 dB)   | <4.8:1(Nominal) -60dB:-3dB                                                                                                                                                                       |                    |                    |
| Reference level              | -100 dBm to +30 dBm,1 dB Steps                                                                                                                                                                   |                    |                    |
| Preamplifier                 | +20 dBm nominal                                                                                                                                                                                  |                    |                    |
| Input attenuator range       | 0 to 51 dB,1 dB Steps                                                                                                                                                                            |                    |                    |
| Trace detectors              | Sample,Peak,Negative,Normal,Average                                                                                                                                                              |                    |                    |
| Trace type                   | Clear/Write,Average,Max Hold,Min Hold                                                                                                                                                            |                    |                    |
| Scale units                  | dBm,dBmV,dB $\mu$ V,V,W                                                                                                                                                                          |                    |                    |
| Sweep (trace) point range    | 40001                                                                                                                                                                                            |                    |                    |
| Tracking source              | 100 kHz - 3.6 GHz                                                                                                                                                                                | 100 kHz- 6 GHz     | 100 kHz- 6 GHz     |
| Vector network analysis      | S11,S21                                                                                                                                                                                          |                    |                    |
| Advanced Measurement         | Power Suite Measurement, Nonlinear Measurement, Spectrum Monitoring                                                                                                                              |                    |                    |
| Modulation Analysis          | AM Measurement, FM Measurement ,PM Measurement                                                                                                                                                   |                    |                    |
| Vector signal analysis       | ASK:2ASK,4ASK,8ASK,16ASK<br>FSK: 2FSK,4FSK,8FSK,16FSK<br>MSK:type1,type2<br>PSK: BPSK,QPSK,OQPSK,8PSK,BPSK,QPSK,8BPSK;DQPSK,D8PSK, $\pi/4$ -DQPSK, $\pi/8$ -D8PSK,OQPSK<br>QAM: 16,32,64,128,256 |                    |                    |
| Real-time analysis bandwidth | 10 MHz; 40 MHz                                                                                                                                                                                   |                    |                    |
| Interface                    | RF input, TG Output,10MHz reference IN,10MHz reference OUT,External trigger input,HDMI,USB-Host, USB-Device,LAN,3.5mm                                                                            |                    |                    |

### General Characteristics

|                              |                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------|
| Power                        | 100-240V AC( $\pm 10\%$ ), 50Hz/60Hz<br>100 to 120 VAC (Fluctuations $\pm 10\%$ ) 400 Hz |
| Display                      | 10.1" TFT LCD (1280x800) touch                                                           |
| Product size(W×H×D)          | 378mm×218mm×120mm                                                                        |
| Product net weight           | 4.96 kg                                                                                  |
| Standard quantity per carton | 1pc                                                                                      |

## Ordering Information

|                      |                                                                                                                                                                              |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UTS3000A Series      | UTS3084A: 8.4 GHz, 1Hz-10 MHz, -165 dBm,TG                                                                                                                                   |
|                      | UTS3060A: 6 GHz, 1Hz-10 MHz, -165 dBm,TG                                                                                                                                     |
|                      | UTS3036A: 3.6 GHz, 1Hz-10MHz, -165 dBm,TG                                                                                                                                    |
| Standard Accessories | Power cord conforming to the standard of the destination country ×1                                                                                                          |
|                      | USB cable ×1                                                                                                                                                                 |
| Optional Accessories | UTS-CK01: UT-W02-6GHz x1, UT-W01-6GHz x1, UT-C02-4GHz x2, UT-C01-6GHz x2, UTS-T01 x2, UTS-T02 x2, Kit pouch×1                                                                |
|                      | UTS-EMI01: Frequency range: 30MHz - 3GHz; include 3 Pcs magnetic field near-field probes and 1 Pcs electric field near field probe; 1 Pcs SMB-SMA cable, 1 Pcs N-SMA adaptor |
|                      | UT-3009F/M: Feale-Male VNA Calibration Kit(9GHz)                                                                                                                             |
|                      | UT-W02-6GHz: N-SMA-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz                                                                                                       |
|                      | UT-W01-6GHz: N-N-JJ RF cable, DC-6GHz VSWR≤1.25:1@6GHz IL≤1.8dB@6GHz                                                                                                         |
|                      | UT-C02-4GHz: N-BNC-JK adaptor, DC-4GHz VSWR≤1.15:1@4GHz IL≤0.2dB@4GHz                                                                                                        |
|                      | UT-C01-6GHz: N-SMA-JK adaptor, DC-6GHz VSWR≤1.15:1@6GHz IL≤0.2dB@6GHz                                                                                                        |
|                      | UTS-T01: Receiving antenna, working frequency 2400MHz-2500MHz, Gain<2dBi                                                                                                     |
|                      | UTS-T02: Receiving antenna, working frequency 824MHz-960MHz, Gain<2dBi                                                                                                       |
| Options              | UTS3000A-EMI: EMI Measurement option for UTS3000Aseries                                                                                                                      |
|                      | UTS3000A-AMK: Advanced measurement kit for UTS3000A series                                                                                                                   |
|                      | UTS3000A-AMA: Analog demodulation measurement option for UTS3000A series                                                                                                     |
|                      | UTS3000A-FDD-LTE: FDD-LTE demodulation analysis option for UTS3000A series                                                                                                   |
|                      | UTS3000A-I/Q: I/Q Analyzer option for UTS3000A series                                                                                                                        |
|                      | UTS3000A-TDD-LTE: TDD-LTE demodulation analysis option for UTS3000A series                                                                                                   |
|                      | UTS3000A-NR40: NR40 demodulation analysis option for UTS3000A series                                                                                                         |
|                      | UTS3000A-B40: RTSA 40MHz analysis option for UTS3000A series                                                                                                                 |
|                      | UTS3000A-VSA: Digital demodulation analysis option for UTS3000A series                                                                                                       |



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