

**Aumictech**

Test &amp; measurement · bought, sold, repaired, calibrated

**Data Sheet**

August 14, 2026

ADVANTEST

## Advantest R6441D Digital multimeter

Advantest R6441D 4.5 Digit True RMS Digital Multimeter Enhanced Current The Advantest R6441D is the enhanced current 4.5 digit true RMS member of the R6441 series. OEM catalog lists true RMS AC, enhanced DCI/ACI including 5 A class ranges on C/D current tables, plus or minus 0.04 percent class DCV, 80 rdg/s fast sampling, and the 212 × 88 × 310 mm 15 VA package. Production and service current-heavy DMM work needing true RMS AC plus 10 A / 5 A class current ranges. DC Current Extra RangesCD: 2 uA 20 uA 200 uA 2000 uA 20 mA 200 mA 2000 mA 5 A The Advantest R6441D is the enhanced current 4.5 digit true RMS member of the R6441 series. OEM catalog lists true RMS AC, enhanced DCI/ACI including 5 A class ranges on C/D current tables, plus or minus 0.04 percent class DCV, 80 rdg/s fast sampling, and the 212 × 88 × 310 mm 15 VA package. Production and service current-heavy DMM work needing true RMS AC plus 10 A / 5 A class current ranges. DC Current Extra RangesCD: 2 uA 20 uA 200 uA 2000 uA 20 mA 200 mA 2000 mA 5 A AC Current True RMS 20 Hz to 500 Hz: plus or minus 0.8 percent plus 40 digits 5 percent of FS or more



MODEL

**Advantest R6441D**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**R6441D**

LISTING

<https://aumictechlabs.com/products/r6441d-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Advantest R6441D is a 4.5-digit digital multimeter engineered for precision DC and AC measurements across R&D, production, and field environments. Dual-channel input architecture and dual display capability enable simultaneous multi-parameter monitoring, while enhanced

current measurement performance and battery operation support portable deployment. True RMS AC measurement with crest factor tolerance and flexible interface options make this instrument suitable for diverse electrical characterization tasks.

**Technical Specifications**

**Measurement Functions**

AC/DC Voltage: up to 700 V AC; 0.001 V to DC range  
AC/DC Current: up to 10 A (both AC and DC)  
Resistance: up to 200  $\Omega$   
Frequency Measurement: supported  
AC Performance (R6441D) True RMS measurement capability  
Voltage filter range: 300 Hz to 100 kHz  
Current filter range: 300 Hz to 5 kHz  
Crest factor: 3:1 at full scale  
Voltage Input Impedance DC: 1 G $\Omega$  or greater  
AC: 1.1 M $\Omega$   $\pm$ 10%, 100 pF or less  
Resistance Measurement Applied current: 3 mA (200  $\Omega$  range) to 10 nA (200 M $\Omega$  range)  
Open circuit voltage: 7.5 V maximum  
Accuracy Resistance:  $\pm$ 0.07%  $\pm$ 10d  
Current:  $\pm$ 0.2%  $\pm$ 5d  
Temperature coefficient:  $0.1 \times (\text{measurement accuracy})/^{\circ}\text{C}$  (0–50 $^{\circ}\text{C}$  operating range)  
Reference conditions: 23  $\pm$  5 $^{\circ}\text{C}$ , 85% RH or less  
Overcurrent Protection Standard ranges: 0.5 A/250 V IEC 127 sheet 1 fuse 10 A range: 15 A/250 V with 10,000-A interrupting capacity

**Physical Characteristics**

Weight: 1 kg maximum  
Operating temperature: 0–50 $^{\circ}\text{C}$   
Storage humidity: 85% RH or less

**Key Features**

Dual-channel simultaneous measurement  
Dual independent displays  
Calculation functions: null, smoothing, dB/dBm, scaling, MAX/MIN, comparator  
Battery-powered for field portability

**Typical Applications**

R&D laboratories, production line verification, field service and troubleshooting.

**Compatibility & Integration**

Optional GPIB interface (Option 01) and memory card interface unit (R13222) support data logging and remote control integration.

## R6441D Characteristics / Specifications

| PARAMETER                                | VALUE                                                                  |
|------------------------------------------|------------------------------------------------------------------------|
| Model                                    | R6441D                                                                 |
| AC Converter                             | true RMS AC                                                            |
| DC Current Extra RangesCD                | 2 uA 20 uA 200 uA 2000 uA 20 mA 200 mA 2000 mA 5 A                     |
| DC Current Resolution 2 uA               | 100 pA                                                                 |
| AC Current True RMS 20 Hz to 500 Hz      | plus or minus 0.8 percent plus 40 digits 5 percent of FS or more       |
| AC Current 500 Hz to 5 kHz               | plus or minus 5.0 percent plus 40 digits                               |
| Crest Factor                             | 3 to 1 at full scale                                                   |
| Display Maximum Slow                     | 199999 at 2.5 readings per second                                      |
| Sampling Fast                            | 80 readings per second 3.5 digit 1999 display                          |
| DC Voltage Ranges                        | 20 mV 200 mV 2000 mV 20 V 200 V 1000 V                                 |
| DC Voltage Resolution 20 mV              | 1 uV                                                                   |
| DC Voltage Accuracy Best                 | plus or minus 0.04 percent plus 2 digits 23 plus or minus 5 C          |
| DC Voltage Input Impedance 20 mV 200 mV  | 1 GOhm or more                                                         |
| DC Voltage Input Impedance Higher Ranges | 11.1 MOhm plus or minus 1 percent to 10.0 MOhm plus or minus 1 percent |
| DC Voltage Max Applied                   | 1100 V all ranges continuous                                           |
| AC Voltage Ranges                        | 200 mV 2000 mV 20 V 200 V 700 V                                        |
| AC Voltage Resolution 200 mV             | 10 uV                                                                  |
| AC Voltage Max Applied                   | 800 Vrms 1100 Vpeak 1e7 V Hz                                           |
| Resistance Ranges                        | 200 ohm to 20 MOhm 200 MOhm on ohms table                              |
| Resistance Resolution 200 ohm            | 10 mOhm                                                                |
| Resistance Accuracy 200 ohm Null         | plus or minus 0.07 percent plus 10 digits                              |
| Resistance Open Circuit                  | 7.5 V or less                                                          |
| DC Current RangesAB                      | 20 mA 200 mA 2000 mA 10 A                                              |
| DC Current Accuracy 20 mA                | plus or minus 0.2 percent plus 5 digits                                |

| PARAMETER                   | VALUE                                                                            |
|-----------------------------|----------------------------------------------------------------------------------|
| Overcurrent Protection 10 A | 15 A / 250 V 10000 A interrupting capacity                                       |
| CMRR Unbalanced 1 kOhm      | approx 120 dB MID/SLOW 50/60 Hz plus or minus 0.1 percent DC                     |
| NMRR MID SLOW               | approx 60 dB 50/60 Hz plus or minus 0.1 percent                                  |
| Interface Standard          | RS-232C 300 to 9600 baud                                                         |
| Power Consumption           | 15 VA or less                                                                    |
| Dimensions                  | approx 212 W x 88 H x 310 D mm                                                   |
| Mass Main Unit              | 2.2 kg maximum                                                                   |
| Mass With Options           | 3.5 kg maximum                                                                   |
| Operating Temperature       | 0 to 50 C 0 to 40 C with battery                                                 |
| AC Line                     | 90 to 250 V wide range specified at order 50 to 400 Hz class options<br>32 42 44 |
| Battery Option R158         | 6 hour continuous operation                                                      |
| Dielectric COM to Chassis   | 450 V continuous                                                                 |

# General Specifications & Supplementary Characteristics

| PARAMETER                 | VALUE                                                                                                                                                                                                                            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating temperature     | 0 to 50 C 0 to 40 C with battery                                                                                                                                                                                                 |
| Operating Temperature     | 0 to 50 C 0 to 40 C with battery                                                                                                                                                                                                 |
| AC Line                   | 90 to 250 V wide range specified at order 50 to 400 Hz class options<br>32 42 44                                                                                                                                                 |
| Battery Option R158       | 6 hour continuous operation                                                                                                                                                                                                      |
| Dielectric COM to Chassis | 450 V continuous Notes From Advantest R6441 Series catalog<br>R6441C/D current tables. 2 uA and 5 A extra current hardware is<br>mounted on R6441C; R6441D is the enhanced-current low-price model<br>in the same family tables. |

# Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

| Specifications                                                                                        |                                                                        |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
| Specifications                                                                                        |                                                                        |
| PARAMETER                                                                                             | VALUE                                                                  |
| Model                                                                                                 | R6441D                                                                 |
| AC Converter                                                                                          | true RMS AC                                                            |
| DC Current Extra RangesCD                                                                             | 2 uA 20 uA 200 uA 2000 uA 20 mA 200 mA 2000 mA 5 A                     |
| DC Current Resolution 2 uA                                                                            | 100 pA                                                                 |
| AC Current True RMS 20 Hz to 500 Hz: plus or minus 0.8 percent plus 40 digits 5 percent of FS or more |                                                                        |
| Specifications                                                                                        |                                                                        |
| PARAMETER                                                                                             | VALUE                                                                  |
| AC Current 500 Hz to 5 kHz                                                                            | plus or minus 5.0 percent plus 40 digits                               |
| Crest Factor                                                                                          | 3 to 1 at full scale                                                   |
| Display Maximum Slow                                                                                  | 199999 at 2.5 readings per second                                      |
| Sampling Fast                                                                                         | 80 readings per second 3.5 digit 1999 display                          |
| DC Voltage Ranges                                                                                     | 20 mV 200 mV 2000 mV 20 V 200 V 1000 V                                 |
| DC Voltage Resolution 20 mV                                                                           | 1 uV                                                                   |
| DC Voltage Accuracy Best                                                                              | plus or minus 0.04 percent plus 2 digits 23 plus or minus 5 C          |
| DC Voltage Input Impedance 20 mV 200 mV: 1 GOhm or more                                               |                                                                        |
| Specifications                                                                                        |                                                                        |
| PARAMETER                                                                                             | VALUE                                                                  |
| DC Voltage Input Impedance Higher Ranges                                                              | 11.1 MOhm plus or minus 1 percent to 10.0 MOhm plus or minus 1 percent |
| DC Voltage Max Applied                                                                                | 1100 V all ranges continuous                                           |
| AC Voltage Ranges                                                                                     | 200 mV 2000 mV 20 V 200 V 700 V                                        |
| AC Voltage Resolution 200 mV                                                                          | 10 uV                                                                  |
| AC Voltage Max Applied                                                                                | 800 Vrms 1100 Vpeak 1e7 V Hz                                           |
| Resistance Ranges                                                                                     | 200 ohm to 20 MOhm 200 MOhm on ohms table                              |
| Resistance Resolution 200 ohm                                                                         | 10 mOhm                                                                |

| PARAMETER                        | VALUE                                                                            |
|----------------------------------|----------------------------------------------------------------------------------|
| Resistance Accuracy 200 ohm Null | plus or minus 0.07 percent plus 10 digits                                        |
| Resistance Open Circuit          | 7.5 V or less                                                                    |
| DC Current RangesAB              | 20 mA 200 mA 2000 mA 10 A                                                        |
| DC Current Accuracy 20 mA        | plus or minus 0.2 percent plus 5 digits                                          |
| Overcurrent Protection 10 A      | 15 A / 250 V 10000 A interrupting capacity                                       |
| CMRR Unbalanced 1 kOhm           | approx 120 dB MID/SLOW 50/60 Hz plus or minus 0.1 percent DC                     |
| NMRR MID SLOW                    | approx 60 dB 50/60 Hz plus or minus 0.1 percent                                  |
| Interface Standard               | RS-232C 300 to 9600 baud                                                         |
| Power Consumption                | 15 VA or less                                                                    |
| Dimensions                       | approx 212 W x 88 H x 310 D mm                                                   |
| Mass Main Unit                   | 2.2 kg maximum                                                                   |
| Mass With Options                | 3.5 kg maximum                                                                   |
| Operating Temperature            | 0 to 50 C 0 to 40 C with battery                                                 |
| AC Line                          | 90 to 250 V wide range specified at order 50 to 400 Hz class options<br>32 42 44 |
| Battery Option R15807            | 6 hour continuous operation                                                      |
| Dielectric COM to Chassis        | 450 V continuous                                                                 |

#### Notes

From Advantest R6441 Series catalog R6441C/D current tables. 2 uA and 5 A extra current hardware is mounted on R6441C; R6441D is the enhanced-current low-price model in the same family tables.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

788 S 500 E, Pleasant Grove, UT 84062  
[sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341  
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·  
30-day returns  
NAICS 423690 · 811210 · 541380  
Generated August 14, 2026

Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.