

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

GAMMA SCIENTIFIC / UDT INSTRUMENTS

Gamma Scientific / UDT Instruments S370 Single Channel Optometer

The Gamma Scientific / UDT Instruments S370 Single Channel Optometer is a precision instrument designed for accurate light measurement. It features a single channel input for connecting various optical sensors to measure light intensity, illuminance, luminance, and other optical parameters. Ideal for laboratory and field applications, the S370 provides reliable and repeatable measurements for quality control, research, and product development.

**MODEL****Gamma Scientific /
UDT Instruments
S370****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****S370****LISTING**[https://aumictechlabs.c
om/products/s370-2/](https://aumictechlabs.com/products/s370-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Gamma Scientific / UDT Instruments S370 is a single-channel optometer delivering precise light measurements across photometric, radiometric, and fiber optic power applications. Microprocessor control and a 16-character LCD display guide parameter programming via a 10-function keypad or remote IEEE-488 interface. The instrument accepts multiple UDT Radiometric Sensor Heads through front-panel BNC connectors, adapting to diverse measurement requirements in laboratory, research, and quality control environments. Technical Specifications Display: 16-character LCD, 0000–9999 range Range Control: Automatic or manual selection Measurement Modes: Linear, Log, Log Ratio, Ratio, and Responsivity Accuracy: $\pm 0.2\%$ + 1 count

(Linear and Log modes) Bandwidth: 9.0 Hz Analog Output: ± 2.5 VDC Calibration: NIST-traceable via plug-in EPROM modules pre-programmed by UDT's calibration lab Key Features Five measurement modes enable attenuation analysis, reference-level comparisons, and uncalibrated sensor head responsivity programming Plug-in calibration architecture supports multiple EPROM modules for flexible sensor head compatibility Analog bar graph display on front panel for real-time visual feedback Compact, lightweight design (4.0 pounds, 8.250 in $\times$ 9.250 in) facilitates portable deployment Manual or automatic range switching optimizes resolution across measurement scales Electrical Specifications AC Input: 90–132 VAC or 180–264 VAC, 47–440 Hz, rear-panel selectable; 12 VA maximum draw Fusing: 1/8 AMP (115 VAC) or 1/16 AMP (230 VAC), low-blow, 3AG, 0.25" $\times$ 1.25" DC Input: 9–15 VDC, 500 mA maximum, rear-panel mounted (Switchcraft 760 connector) Compatibility & Integration IEEE-488 digital interface enables remote data transfer, reception, and programming via Lab Windows drivers Accepts shielded cables (HP10833x or Io-Tech CA-7-X recommended) Removable BNC connector modules on front panel support rapid sensor head exchange Compatible with any linear photodiode sensor head

Features & description

From manufacturer datasheet

Technical Specifications

Display: 16-character LCD, 0000–9999 range Range Control: Automatic or manual selection
Measurement Modes: Linear, Log, Log Ratio, Ratio, and Responsivity Accuracy: $\pm 0.2\%$ + 1 count
(Linear and Log modes) Bandwidth: 9.0 Hz Analog Output: ± 2.5 VDC Calibration: NIST-traceable via
plug-in EPROM modules pre-programmed by UDT's calibration lab

Key Features

Five measurement modes enable attenuation analysis, reference-level comparisons, and uncalibrated sensor head responsivity programming Plug-in calibration architecture supports multiple EPROM modules for flexible sensor head compatibility Analog bar graph display on front panel for real-time visual feedback Compact, lightweight design (4.0 pounds, 8.250 in × 9.250 in) facilitates portable deployment Manual or automatic range switching optimizes resolution across measurement scales

Electrical Specifications

AC Input: 90–132 VAC or 180–264 VAC, 47–440 Hz, rear-panel selectable; 12 VA maximum draw
Fusing: 1/8 AMP (115 VAC) or 1/16 AMP (230 VAC), low-blow, 3AG, 0.25" × 1.25" DC Input: 9–15 VDC,
500 mA maximum, rear-panel mounted (Switchcraft 760 connector)

Compatibility & Integration

IEEE-488 digital interface enables remote data transfer, reception, and programming via Lab Windows drivers Accepts shielded cables (HP10833x or Io-Tech CA-7-X recommended) Removable BNC connector modules on front panel support rapid sensor head exchange Compatible with any linear photodiode sensor head

Gamma Scientific / UDT Instruments S370 — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Gamma Scientific / UDT Instruments S370. Calibration covers detector responsivity at 850, 1310, 1490, 1550, and 1625 nm, absolute power accuracy, linearity across the full dynamic range, and reference power level. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values Common Gamma Scientific / UDT Instruments S370 faults: detector contamination, damaged FC/PC input port, display failure. Common repairs include detector port cleaning or replacement, display repair, and battery or capacitor replacement in older HP/Agilent/Keysight units. [Request Calibration](#) → [Request Repair Quote](#) →

Gamma Scientific / UDT Instruments S370 price

This Gamma Scientific / UDT Instruments S370 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Gamma Scientific / UDT Instruments S370 calibration cost

NIST-traceable calibration for the Gamma Scientific / UDT Instruments S370 is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Calibration for this instrument covers detector responsivity at 850, 1310, 1490, 1550, and 1625 nm, absolute power accuracy, linearity across the full dynamic range, and reference power level. Turnaround is 1 to 3 business days after receipt. See full calibration details →

Unit notes

The Gamma Scientific / UDT Instruments S370 is a single-channel optometer delivering precise light measurements across photometric, radiometric, and fiber optic power applications. Microprocessor control and a 16-character LCD display guide parameter programming via a 10-function keypad or remote IEEE-488 interface. The instrument accepts multiple UDT Radiometric Sensor Heads through front-panel BNC connectors, adapting to diverse measurement requirements in laboratory, research, and quality control environments. Technical Specifications Display: 16-character LCD, 0000–9999 range Range Control: Automatic or manual selection Measurement Modes: Linear, Log, Log Ratio, Ratio, and Responsivity Accuracy: $\pm 0.2\%$ + 1 count (Linear and Log modes) Bandwidth: 9.0 Hz Analog Output: ± 2.5 VDC Calibration: NIST-traceable via plug-in EPROM modules pre-programmed by UDT's calibration lab Key Features Five measurement modes enable attenuation analysis, reference-level comparisons, and uncalibrated sensor head responsivity programming Plug-in calibration architecture supports multiple EPROM modules for flexible sensor head compatibility Analog bar graph display on front panel for real-time visual feedback Compact, lightweight design (4.0 pounds, 8.250 in × 9.250 in) facilitates portable deployment Manual or automatic range switching optimizes resolution across measurement scales Electrical Specifications AC Input: 90–132 VAC or 180–264 VAC, 47–440 Hz, rear-panel selectable; 12 VA maximum draw F

S370 Specifications

PARAMETER	VALUE
Voltage / Current Range	47-440 Hz
Display	16-character LCD, 0000-9999 range
Range Control	Automatic or manual selection
Measurement Modes	Linear, Log, Log Ratio, Ratio, and Responsivity
Accuracy	±0.2% + 1 count (Linear and Log modes)
Bandwidth	9.0 Hz
Analog Output	±2.5 VDC
Calibration	NIST-traceable via plug-in EPROM modules pre-programmed by UDT's calibration lab

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.

The Gamma Scientific / UDT Instruments S370 Single Channel Optometer is a precision instrument designed for accurate light measurement. It features a single channel input for connecting various optical sensors to measure light intensity, illuminance, luminance, and other optical parameters. Ideal for laboratory and field applications, the S370 provides reliable and repeatable measurements for quality control, research, and product development.

The Gamma Scientific / UDT Instruments S370 is a single-channel optometer delivering precise light measurements across photometric, radiometric, and fiber optic power applications. Microprocessor control and a 16-character LCD display guide parameter programming via a 10-function keypad or remote IEEE-488 interface. The instrument accepts multiple UDT Radiometric Sensor Heads through front-panel BNC connectors, adapting to diverse measurement requirements in laboratory, research, and quality control environments.

Calibration: NIST-traceable via plug-in EPROM modules pre-programmed by UDT's calibration lab

Five measurement modes enable attenuation analysis, reference-level comparisons, and uncalibrated sensor head responsivity programming

S370 Specifications

PARAMETER	VALUE
Voltage / Current Range	47-440 Hz
Display	16-character LCD, 0000-9999 range
Range Control	Automatic or manual selection
Measurement Modes	Linear, Log, Log Ratio, Ratio, and Responsivity
Accuracy	±0.2% + 1 count (Linear and Log modes)
Bandwidth	9.0 Hz
Analog Output	±2.5 VDC
Calibration	NIST-traceable via plug-in EPROM modules pre-programmed by UDT's calibration lab

Technical Specifications

Display: 16-character LCD, 0000-9999 range

Range Control: Automatic or manual selection

Measurement Modes: Linear, Log, Log Ratio, Ratio, and Responsivity

Accuracy: ±0.2% + 1 count (Linear and Log modes)

Bandwidth: 9.0 Hz

Analog Output: ±2.5 VDC

Calibration: NIST-traceable via plug-in EPROM modules pre-programmed by UDT's calibration lab

Key Features

Five measurement modes enable attenuation analysis, reference-level comparisons, and uncalibrated sensor head responsivity programming

Plug-in calibration architecture supports multiple EPROM modules for flexible sensor head compatibility

Analog bar graph display on front panel for real-time visual feedback

Compact, lightweight design (4.0 pounds, 8.250 in × 9.250 in) facilitates portable deployment

Manual or automatic range switching optimizes resolution across measurement scales

Electrical Specifications

AC Input: 90-132 VAC or 180-264 VAC, 47-440 Hz, rear-panel selectable; 12 VA maximum draw

Fusing: 1/8 AMP (115 VAC) or 1/16 AMP (230 VAC), low-blow, 3AG, 0.25" x 1.25"

DC Input: 9-15 VDC, 500 mA maximum, rear-panel mounted (Switchcraft 760 connector)

Compatibility & Integration

IEEE-488 digital interface enables remote data transfer, reception, and programming via Lab Windows drivers

Accepts shielded cables (HP10833x or Io-Tech CA-7-X recommended)

Removable BNC connector modules on front panel support rapid sensor head exchange

Compatible with any linear photodiode sensor head

Gamma Scientific / UDT Instruments S370 – Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Gamma Scientific / UDT Instruments S370.

Calibration covers detector responsivity at 850, 1310, 1490, 1550, and 1625 nm, absolute power accuracy, linearity across the full dynamic range, and reference power level. All calibrations ship with a NIST-traceable certificate. Turnaround is typically 1-3 business days after receipt.

Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values

Common Gamma Scientific / UDT Instruments S370 faults: detector contamination, damaged FC/PC input port, display failure. Common repairs include detector port cleaning or replacement, display repair, and battery or capacitor replacement in older HP/Agilent/Keysight units.

[Request Calibration](#) → [Request Repair Quote](#) →

Gamma Scientific / UDT Instruments S370 price

This Gamma Scientific / UDT Instruments S370 is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Available from Aumictech

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

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

Aumictech

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

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 12, 2026

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