

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *Laser Probe / Laser Precision E-Pod* at our website: *Click HERE*

RjP-765a
Silicon Energy Probe



- **UV - Enhanced Response from 180 nm to 1.1 μm**
- **pJ Sensitivity**
- **Large, 1.0 cm² Active Area**
- **Wide Range of Applications**

Measurement of low energy, pulsed sources is no longer limited to average power - the RjP-765a can directly measure the integrated energy of each pulse in real time. This UV-Enhanced Silicon Energy probe is designed specifically for measuring lower repetition rate, longer pulse duration (up to 1 msec) sources, from the near-UV to the near-IR. Picojoule sensitivity, single-shot to 40 Hz rep rates, psec to msec pulse widths, and a 1 cm^2 active area insure tremendous versatility and ease of use.

A number of sources fall within the RjP-765's measurement range. Lasers include Nd:YAG (fundamental and harmonics), Nd:YLF, Nitrogen, Excimer, and Dye. Non-laser sources like flashlamps, LEDs, and laser diodes are also accommodated.

Because it can measure pulses up to 1 msec long, continuous wave sources that are chopped with a small duty cycle blade at 30 - 40 Hz can be measured with the RjP-765a. This technique is useful for monitoring the power fluctuations of a cw source that are occurring too rapidly for a traditional power meter to resolve. It can also be used to transfer absolute calibration between power meters and energy meters.

The scope of application for the RjP-765a is enormous. Raman spectroscopy, bioluminescence, laser-induced flourescence, and non-linear optics are just a few examples. With the appropriate filter it can be used for photopic measurements, or to isolate the UV-A/UV-B range for germicidal studies. Use the RjP-765a with the

LaserProbe inc.

23 WELLS AVE. · UTICA, NY 13502 · PHONE 315 797-4492 · FAX 315 797-0696

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

SPECIFICATIONS

Spectral response	180 - 1100 nm
Maximum total energy	2.0 μJ
Maximum energy density	2.0 μJ/cm^2
Max. peak pulse power density *(30 ns pulse)*	100 mW/cm^2
Max. average power density	5.0 mW/cm^2
Minimum detectable energy	1.0 pJ
Maximum pulse rep rate	40 Hz
Maximum pulse width	1.0 msec
Calibration accuracy	±5%
Linearity	±0.5%
Detector active area	1.0 cm^2
Full scale ranges	6; 20 (30) pJ - 2 (3) μJ (readout dependent)
Head dimensions (dia x depth)	3.2 cm 17.6 cm (1.5" x 6.9")
Probe weight	0.4 kg (0.8 lb)

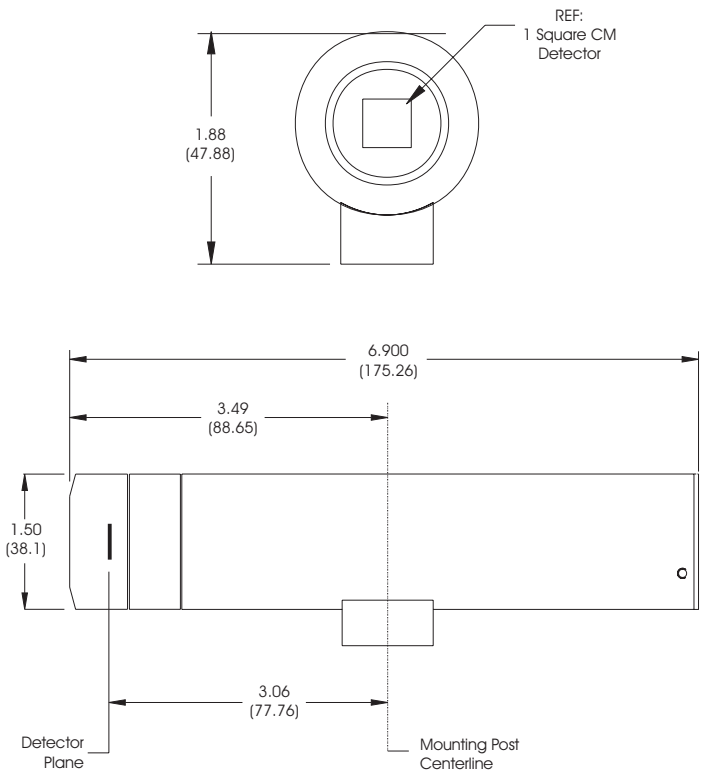
battery powered Rm-3700 Universal Radiometer for field testing weapons simulation systems, LIDAR, and target rangefinder/designator systems. Or couple it with the Rm-6600 Dual-Channel Universal Radiometer and a pyroelectric energy probe to ratiometrically measure the transmission of laser goggles, filters, and attenuators over 6 decades of dynamic range.

The RjP-765a is calibrated for absolute energy measurement at 950 nm (the wavelength of peak spectral response). The typical wavelength response curve, normalized to 100% relative responsivity at 950 nm, is provided for working at wavelengths other than the peak. Two absolute wavelength calibration options are available, UV (200 - 350 nm) and VIS-IR (350 - 1100 nm).

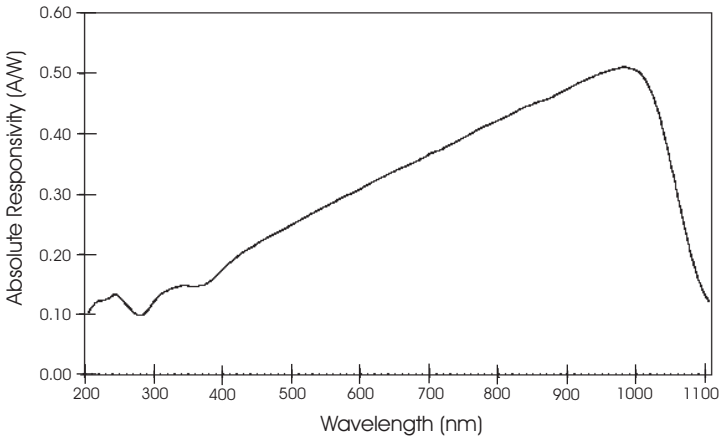
The RjP-700 Series probes have the detector assembly and preamplifier in a common housing. This minimizes the signal path between the detector and preamplifier and surrounds them with a continuous Faraday cage, giving optimal EMI/RFI immunity.

A mounting block with the standard ¼-20 mounting hole is attached to the probe housing. It can be removed for inserting the probe in a cylindrical fixture. A matte black finish reduces unwanted back-reflection. There are many options and accessories available for the RjP-700 Series probes, including the kTA-141 support stand, probe extension cables, and various filters and windows. The options and accessories are detailed in a separate data sheet.

All RjP-700 Series Probes are provided with a certificate of calibration showing traceability to the National Institute of Standards and Technology (NIST) and compliance with MIL-45662 and ANSI-Z540 Sections 7-18.



Spectral Curve



As a result of our ongoing commitment to product improvement specifications are subject to change without notice.

REV 019801js

Artisan Technology Group - Quality Instrumentation ... Guaranteed | (888) 88-SOURCE | www.artisantg.com

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP