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Data Sheet

August 15, 2026

CVI MELLES GRIOT

CVI Melles Griot 13AMP003 Large Dynamic Range Amplifier

CVI Melles Griot 13AMP003 Large Dynamic Range Amplifier The CVI Melles Griot 13AMP003 is a large-dynamic-range amplifier. OEM 13AMP003 listings describe a laboratory analog amplifier for optical-detector and low-level signal conditioning, complementary to 13AMP005 wide-bandwidth amplifier. Large-dynamic-range amplification of optical-detector and low-level analog signals in photonics labs. Large dynamic range amplifier CVI Melles Griot 13AMP family Companion to 13AMP005 wide bandwidth Photonics detector conditioning Laboratory analog amplifier Low level signal gain The CVI Melles Griot 13AMP003 is a large-dynamic-range amplifier. OEM 13AMP003 listings describe a laboratory analog amplifier for optical-detector and low-level signal conditioning, complementary to 13AMP005 wide-bandwidth amplifier. Large-dynamic-range amplification of optical-detector and low-level analog signals in photonics labs. Large dynamic range amplifier CVI Melles Griot 13AMP family Companion to 13AMP005 wide bandwidth Photonics detector conditioning Laboratory analog amplifier Low level signal gain



MODEL

**CVI Melles Griot
13AMP003**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

13AMP003

LISTING

<https://aumictechlabs.com/products/13amp003-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The CVI Melles Griot 13AMP003 is a large dynamic range transimpedance amplifier that converts photodiode and detector photocurrent into measurable voltage outputs. It maintains zero bias across the detector input, preserving signal integrity across nine selectable gain settings spanning 1 G Ω to 10 Ω . The instrument reads input currents from 1 pA to 100 mA with $\pm 1\%$ accuracy and displays results directly on a 3½-digit backlit LCD alongside range and battery status indicators. Technical Specifications Input Current Range: 1 pA to 100 mA Gain Settings: Nine positions, 1 G Ω to 10 Ω Measurement Accuracy: $\pm 1\%$ across all ranges Signal Monitor Output: BNC connector, -2 V to +2 V full scale Display: 3½-digit backlit LCD with photocurrent readout, range indication, and battery status Operating Temperature: 10°C to 35°C Storage Temperature: -40°C to 55°C Dimensions: 133 × 83 × 140 mm (5.25 × 3.25 × 5.5 in.) Key Features Front-panel offset adjustment for nulling background readings Dual power operation: rechargeable AA nickel-cadmium battery pack (minimum 8 hours portable operation) or external wall-mounted supply with simultaneous charging Switch-selectable 115 VAC / 230 VAC power supply input BNC input and output connectors Rear-panel banana jack earth ground connection Compact bench-top form factor Typical Applications Photodiode signal conditioning and measurement Precision current detection in optical instrumentation Low-level photocurrent monitoring across wide dynamic ranges Compatibility & Integration The 13AMP003 integrates with Melles Griot silicon photodiode products and broader optical detection systems requiring transimpedance signal processing.

13AMP003 Characteristics / Specifications

PARAMETER	VALUE
Model	13AMP003
Instrument Type	Large dynamic range amplifier
Manufacturer	CVI Melles Griot
Literature	CVI Melles Griot 13AMP003 listings
Family	CVI Melles Griot 13AMP amplifiers
Brand Lineage	Melles Griot CVI
Form Factor	laboratory analog amplifier
System Role	large dynamic range gain
Use Case	optical detector conditioning
Documentation Type	OEM 13AMP003 listing
Year Class	13AMP003
Application Class	analog amplification
Vendor Path	CVI Melles Griot
Related Wideband	13AMP005 wide bandwidth amplifier
Documentation Class	OEM 13AMP catalog
Control Class	analog amplifier
Companion Role	Melles Griot photonics amplifiers
Operating Mode	analog gain
Instrument Class	amplifier
Dynamic Range Class	large dynamic range
Bandwidth Class	per 13AMP003 data sheet
Gain Class	per 13AMP003 data sheet
Input Class	analog
Output Class	analog
Noise Class	per 13AMP003 data sheet

PARAMETER	VALUE
Enclosure Class	13AMP chassis
Power Class	laboratory amplifier PSU
Bandwidth	amplifier

13AMP003 Specifications

PARAMETER	VALUE
CVI Melles Griot 13AMP003 Large Dynamic Range Amplifier	Overview
Applications	Large-dynamic-range amplification of optical-detector and low-level analog signals in photonics labs.
Large dynamic range amplifier	CVI Melles Griot 13AMP family
Laboratory analog amplifier	Low level signal gain
Technical Specifications	Model: 13AMP003

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	
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PARAMETER	VALUE
Model	13AMP003
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Manufacturer	CVI Melles Griot
Literature	CVI Melles Griot 13AMP003 listings
Family	CVI Melles Griot 13AMP amplifiers
Brand Lineage	Melles Griot CVI
Form Factor	laboratory analog amplifier
System Role	large dynamic range gain
Use Case	optical detector conditioning
Documentation Type	OEM 13AMP003 listing
Year Class	13AMP003
Application Class	analog amplification
Vendor Path	CVI Melles Griot
Related Wideband	13AMP005 wide bandwidth amplifier
Documentation Class	OEM 13AMP catalog
Control Class	analog amplifier
Companion Role	Melles Griot photonics amplifiers
Operating Mode	analog gain
Instrument Class	amplifier
Dynamic Range Class	large dynamic range
Bandwidth Class	per 13AMP003 data sheet
Gain Class	per 13AMP003 data sheet
Input Class	analog
Output Class	analog
Noise Class	per 13AMP003 data sheet
Enclosure Class	13AMP chassis

PARAMETER	VALUE
Power Class	laboratory amplifier PSU

Notes
From CVI Melles Griot 13AMP003 listings (large-dynamic-range amplifier). Gain, bandwidth, noise, and input range are on the 13AMP003 data sheet.

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

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