



UM-B

5 nW - 25 mW, Radiometer for Ultra-Low Power Measurements



KEY FEATURES

1. **VERY LOW NOISE LEVEL**
Noise levels of a photo detector, but with the large bandwidth of a pyroelectric:
 - Down to 5 nW when using the Analog Power Module (APM)
2. **VERY HIGH RESPONSIVITY**
Up to 20 000 V/W when using the Analog Power Module (APM)
3. **VERY LARGE BANDWIDTH**
From DUV to FIR thanks to pyroelectric technology
4. **SMART INTERFACE**
Containing all the calibration data

AVAILABLE MODELS



UM9B-BL
(9 mm-Organic Black)

ACCESSORIES



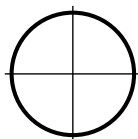
Stand with Delrin Post
(Model Number: 200428)



Fiber Adaptors & Connectors
(FC, ST or SMA)



APM Analog Power Supply
(Model Number: 201848)



IR Alignment Aide
and Crosshairs



SDC-500 Digital
Optical Chopper

SEE ALSO

TECHNICAL DRAWINGS	88
COMPATIBLE MONITORS	
MAESTRO	2
M-LINK	32
LIST OF ALL ACCESSORIES	186

APPLICATION NOTE

SDC-500 DIGITAL OPTICAL CHOPPER	202154
IR WINDOWS	202192

MONITORS

ENERGY DETECTORS

POWER DETECTORS

HIGH POWER SOLUTIONS

PHOTO DETECTORS

THZ DETECTORS

OEM DETECTORS

SPECIAL PRODUCTS

BEAM DIAGNOSTICS

UM-B



*Also traceable to NRC-CNRC

SPECIFICATIONS


UM9B-BL

MAX AVERAGE POWER	25 mW
EFFECTIVE APERTURE	9 mm Ø
COMPATIBLE MONITORS	APM and Power Monitors

MEASUREMENT CAPABILITY	With APM	With Monitor
Spectral Range *	0.1 - 20 µm	0.1 - 20 µm
Maximum Measurable Power	40 mW	20 mW (MAESTRO), 25 mW (M-LINK)
Noise Equivalent Power (RMS)	5 nW	300 nW
Rise Time (0-100%)	≤ 0.2s	≤ 0.2s
Sensitivity	20 000 V/W	120 V/W
Calibration Uncertainty	±4 % @ 1064 nm	±4 % @ 1064 nm
Chopper Frequency ^a	10 ± 1 Hz	10 ± 1 Hz
Maximum Average Power Density (1064 nm)	50 mW/cm ²	50 mW/cm ²

PHYSICAL CHARACTERISTICS

Effective Aperture	9 mm Ø
Absorber	Organic Black
Dimensions	38.1Ø X 26.2D mm
Weight	91 g

ORDERING INFORMATION	With APM	With Monitor
Product Name	UM9B-BL-L-D0	UM9B-BL-D0
Product Number (Including stand)	202241	202024
 Add Extension for INTEGRA		-INT

Specifications are subject to change without notice

* For the calibrated spectral range, see the user manual.

a. SDC-500 Digital Optical Chopper sold separately.