



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)



Removable IR Windows
(Various types available)



Fiber Adaptors & Connectors
(FC, ST or SMA)



IR Alignment Aide
and Crosshairs



APM Analog Power Supply
(Model Number: 201848)



SDC-500 Digital
Optical Chopper

SEE ALSO

TECHNICAL DRAWINGS	86
COMPATIBLE MONITORS	
MAESTRO	20
M-LINK	32
LIST OF ALL ACCESSORIES	190

APPLICATION NOTE

SDC-500 DIGITAL OPTICAL CHOPPER [202154](#)

UM-B

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
DAMAGE THRESHOLDS		
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	-INT

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

a. SDC-500 Digital Optical Chopper sold separately.

Specifications are subject to change without notice