

微型光纤光谱仪



AFBR-S20 Spectrometer Key Specifications

Product Family	Qtube Spectrometer Round process Spectrometer	Qmini Miniature Spectrometer	Qwave Compact Spectrometer	Qneo Industrial NIR Spectrometer
Part number starting with	AFBR-S20T1WU	AFBR-S20M2xx	AFBR-S20W2xx	AFBR-S20N1N256
Wavelengths range (nm)	190 – 1000 nm	deepUV: 185 – 375 UV: 220 – 400 VIS: 370 – 750 NIR: 730 – 1080 WIDE UV: 225 – 1000 (sensitivity optimized at 300 nm) WIDE VIS: 225 – 1000 (sensitivity optimized at 500 nm) VIS/NIR: 480 – 1100	UV: 220 – 390 VIS: 350 – 880 NIR: 700 – 1030	950 – 1700
Entrance slit (standard)	20 μ m	20 μ m	20 μ m	30 μ m
Spectral resolution (nm) [FWHM]	200 – 350 nm: < 3.5 nm 350 – 600 nm: < 2 nm 600 – 730 nm: < 3 nm 730 – 1000: < 5.5 nm	DUV: 0.5 UV: 0.5 VIS: 0.8 NIR: 0.8 WIDE UV: 1.5 WIDE VIS: 1.5 VIS/NIR: 1.5	UV: 0.3 VIS: 0.6 NIR: 0.5	8 nm
Dynamic range	1000:1	1300:1	2000:1	12000:1
Numerical aperture	0.1	0.1	0.1	0.18
Stray light	< 0.2 %	< 0.1 %	< 0.1 %	< 0.1 %
Detector	2500 pixel linear Si CCD	2500 pixel linear Si CCD	3648 pixel linear Si CCD	256 pixel uncooled linear InGaAs sensor
A/D converter	16 bit	16 bit	16 bit	16 bit
Integration time	100 μ s to 30 min	3 μ s to 30 min	3 μ s to 15 min	4 μ s to 30 min
Digital interface	UART	USB/SPI/UART	USB/SPI/UART	USB/SPI/UART
Optical interface	SMA 905 connector	SMA 905 connector	SMA 905 connector	SMA 905 connector
Dimensions	35.0 x 70.0 mm	64.0 x 42.0 x 14.5 mm	89.5 x 68.0 x 19.5 mm	60.0 x 50.0 x 19.0 mm
Operating temperature	-15 $^{\circ}$ C – 60 $^{\circ}$ C (non-condensing)	-15 $^{\circ}$ C – 60 $^{\circ}$ C (non-condensing)	-15 $^{\circ}$ C – 60 $^{\circ}$ C (non-condensing)	-15 $^{\circ}$ C – 55 $^{\circ}$ C (non-condensing)

