

**Preconfigured Spectrometers**

<b>AvaSpec-ULS2048CL-EVO-RS-UA</b>	Ultra-low stray light fiber optic UV/VIS/NIR spectrometer with replaceable slit, 2048 pixel/14x200 µm CMOS detector, grating UA (200-1100 nm), DCL-UV/VIS-200, OSC-UA, USB3 powered, high speed USB3 and ETH interface. Includes Avasoft-Full and slit kit SMA (slit 25-RS preinstalled; 50, 100 and 200 µm in box).	3804,73
<b>AvaSpec-ULS2048XL-EVO-RS-UA</b>	Ultra-low stray light fiber optic UV/VIS/NIR spectrometer with replaceable slit, 2048 pixel/14x500 µm back thinned CCD detector, grating UA (200-1160 nm), DCL-UV/VIS-200, OSC-UA, USB3 powered, high speed USB3 and ETH interface. Includes Avasoft-Full and slit SMA (slit 25-RS preinstalled; 50, 100, 200 µm in box).	4822,89
<b>AvaSpec-ULS2048CL-EVO-RS-BB</b>	Ultra-low stray light fiber optic VIS spectrometer, 2048 pixel CMOS detector, grating BB (360-880 nm), OSF-305, OSC, USB3 powered, high speed USB3 and ETH interface. Includes Avasoft-Full and slit kit SMA (slit 25-RS preinstalled; 50, 100, 200 µm in box).	3309,36

**CompactLine Spectrometers**

<b>AvaSpec-Mini2048CL-U25</b>	Mini spectrometer MK II, CMOS 2048 pixels, grating-MN1200-0.25 (200-450nm), DCL200, 25µm slit, USB2 interface, with AvaSoft-FULL	2456,12
<b>AvaSpec-Mini2048CL-V25</b>	Mini spectrometer MK II, CMOS 2048 pixels, grating-MN600-0.50 (350-885nm), DCL200, OSC, OSF305, 25µm slit, USB2 interface, with AvaSoft-FULL	2456,12
<b>AvaSpec-Mini2048CL-I25</b>	Mini spectrometer MK II, CMOS 2048 pixels, grating-MN600-1.00 (600-1100nm), DCL200, OSF600, 25µm slit, USB2 interface, with AvaSoft-FULL	2456,12
<b>AvaSpec-Mini2048CL-UVI25</b>	Mini spectrometer MK II, CMOS 2048 pixels, grating-MN300-0.3 (200-1100nm), DCL200, OSC-UA, 25µm slit, USB2 interface, with AvaSoft-FULL	2560,74
<b>AvaSpec-Mini2048CL-VI25</b>	Mini spectrometer MK II, CMOS 2048 pixels, grating-MN300-0.50 (360-1100nm), DCL200, OSC, OSF305, 25µm slit, USB2 interface, with AvaSoft-FULL	2560,74
<b>AvaSpec-Mini4096CL-U10</b>	Mini spectrometer MK II, CMOS 4096 pixels, grating-MN1800-0.25 (200-365nm), DCL200, 10µm slit, USB2 interface, with AvaSoft-FULL	2665,26
<b>AvaSpec-Mini4096CL-V10</b>	Mini spectrometer MK II, CMOS 4096 pixels, grating-MN600-0.50 (350-885nm), DCL200, OSC, OSF305, 10µm slit, USB2 interface, with AvaSoft-FULL	2665,26
<b>AvaSpec-Mini4096CL-I10</b>	Mini spectrometer MK II, CMOS 4096 pixels, grating-MN600-1.00 (600-1100nm), DCL200, OSF600, 10µm slit, USB2 interface, with AvaSoft-FULL	2665,26
<b>AvaSpec-Mini4096CL-UVI10</b>	Mini spectrometer MK II, CMOS 4096 pixels, grating-MN300-0.3 (200-1100nm), DCL200, OSC-UA, 10µm slit, USB2 interface, with AvaSoft-FULL	2769,78
<b>AvaSpec-Mini4096CL-VI10</b>	Mini spectrometer MK II, CMOS 4096 pixels, grating-MN300-0.50 (360-1100nm), DCL200, OSC, OSF305, 10µm slit, USB2 interface, with AvaSoft-FULL	2769,78
<b>Service-Mini-MKII-IO</b>	Service part: Set of mating connectors and wires for AvaSpec-MINI MKII IO connectors.(3 connectors/ 30 wires) This set consists: 3 x mating connector Wurth WTB series 665 010 113 322 and 30 x 150mm precrimped cable Wurth WTB series 665 010 130 115.	15,68
<b>AvaSpec-MINI-NIR256-1.7-PCF1</b>	Preconfigured Mini spectrometer MK II, NIR 256 pixels, grating-MN200-1.6 set for 975-1700nm, OSF850, 50µm slit, USB2 interface, with AvaSoft-FULL	7536,50

**StarLine Spectrometers**

<b>AvaSpec-ULS2048CL-EVO</b>	Fiber-optic Spectrometer, 75 mm AvaBench, 2048 pixel CMOS detector 14 x 200 µm, USB powered, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB interface cable. Specify grating, wavelength range and options. Options are equal to the AvaSpec- ULS2048L-EVO.	3180,93
<b>AvaSpec-ULS4096CL-EVO</b>	Fiber-optic Spectrometer, 75 mm AvaBench, 4096 pixel CMOS detector 7 x 200 µm, USB powered, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB interface cable. Specify grating, wavelength range and options. Options are equal to the AvaSpec- ULS2048CL-EVO	3207,96
<b>AvaSpec-ULS4096CL-EVO-RS</b>	Fiber-optic Spectrometer with replaceable slit, 75 mm AvaBench, 4096 pixel CMOS detector 7 x 200 µm, USB powered, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB interface cable	3649,46
<b>-RS</b>	Replaceable slit, to be added to the product code of the AvaSpec-ULS	441,50
<b>GRAT-UA</b>	300 1/ , 190-1100 , . 400	0,00
<b>SLIT-KIT-SMA</b>	Slit kit containing of 4 SMA replaceable slits. Choice of 25, 50, 100, 200 and 500 µm slits (any combination), and the tools to replace the slit.	546,72
<b>DCL-UV/VIS-200</b>	Detector collection lens for AvaSpec-ULS2048CL/ 4096CL/2048XL/2048x64(TEC) for > 200 µm fibers, to enhance sensitivity, quartz, 200-1100 nm	157,48



<b>OSC-UA</b>	Order sorting coating with Linear Variable Filter filter for UA/VA gratings in AvaSpec-ULS2048CL/ 4096CL/2048XL/2048x64(TEC)	214,27
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### SenseLine Spectrometers

<b>AvaSpec-ULS2048XL-EVO</b>	Ultra low straylight fiber optic spectrometer, 75 mm AvaBench, 2048XL pixel back illum CCD detector, high speed USB3 or ETH interface, USB3 powered or external Powersupply for USB3/ ETH. Including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options.	5123,99
<b>AvaSpec-ULS2048x64-EVO</b>	Ultra low straylight fiber optic spectrometer, 75 mm AvaBench, 2048x64 pixel back illum CCD detector, high speed USB3 or ETH interface, USB3 powered or external Powersupply for USB3 / ETH. Including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options.	5735,43
<b>AvaSpec-HS2048XL-EVO</b>	High-sensitivity fiber-optic Spectrometer, 2048 large 500 µm pixel back-thinned CCD detector, high-speed USB3 and ETH interface, USB3 powered or external Powersupply for USB3 / ETH. Incl. AvaSoft-Basic, USB interface cable. Specify grating, wavelength range and options	7495,79
<b>AvaSpec-ULS2048x64TEC-EVO</b>	Thermo-Electric cooled fiber optic spectrometer, 75 mm ultra-low straylight AvaBench, 2048x64 pixel TE cooled and regulated Low Noise CCD detector, USB3/ETH high speed interface and replaceable slit, incl. AvaSoft-Basic, USB cable in desktop housing, specify grating, wavelength range and options.	7755,89
<b>AvaSpec-HSC1024x58TEC-EVO</b>	<b>AvaSpec-HERO:</b> High sensitivity fiber optic spectrometer, HSC 100mm bench design, 1024x58 pixel back illum TE cooled CCD detector, high-speed USB 3.0 and ETH interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	10716,42

### NIRLine Spectrometers

<b>AvaSpec-NIR256-1.7-EVO</b>	Fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector, USB powered high speed USB3 interface or ETH interface (seperate PS required) with Replaceable Slit, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit-RS	8363,81
<b>AvaSpec-NIR512-1.7-EVO</b>	Fiber optic spectrometer, 50 mm AvaBench, 512 pixel InGaAs detector, USB powered high speed USB3 interface or ETH interface (seperate PS required) with Replaceable Slit, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit-RS	10977,82
<b>AvaSpec-NIR256-1.7-HSC-EVO</b>	NIR Spectrometer, 100 mm Avabench, 256 pixel InGaAs detector 1stage TEC, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB cable, OSF, specify NIR grating and wavelength range and Slit-xx-RS.	12029,25
<b>AvaSpec-NIR512-1.7-HSC-EVO</b>	NIR Spectrometer, 100 mm Avabench, 512 pixel InGaAs detector 1stage TEC, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB cable, OSF, specify NIR grating and wavelength range and Slit-xx-RS.	14226,28
<b>AvaSpec-NIR256-2.5-HSC-EVO</b>	NIR Spectrometer, 100 mm Avabench, 256 pixel InGaAs detector 2stage TEC, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB cable, specify OSF-1000, NIR grating and wavelength range and Slit-xx-RS.	20845,41
<b>AvaSpec-NIR512-2.5-HSC-EVO</b>	NIR Spectrometer, 100 mm Avabench, 512 pixel InGaAs detector 2stage TEC, high-speed USB 3.0 and ETH interface, incl. AvaSoft-Basic, USB cable, specify OSF, NIR grating and wavelength range and Slit-xx-RS.	24596,57

### Dual channel

<b>AvaSpec-ULS2048CL-2-EVO</b>	Dual channel ultra-low straylight fiber optic spectrometer, 75 mm AvaBench, 2048 pixel 14x200 µm CMOS detector, 2 x USB3/ETH interface, including AvaSoft-Basic, 2x USB3 cable, sync cable. For each channel specify grating, wavelength range and options. Optional: External Power supply 12V/2.2A (if not USB3 powered)	5133,74
<b>AvaSpec-ULS4096CL-2-EVO</b>	Dual channel ultra-low straylight fiber optic spectrometer, 75 mm AvaBench, 4096 pixel 7x200 µm CMOS detector, 2 x USB3/ETH interface, including AvaSoft-Basic, 2x USB3 cable, sync cable. For each channel specify grating, wavelength range and options. Optional: External Power supply 12V/2.2A (if not USB3 powered)	5305,19

### Multichannel Spectrometers EVO

<b>AVS-RACKMOUNT-EVO-USB3</b>	19" Rackmount for USB3 platform multichannel AvaSpec, including channel synchronization, USB3-hub, one DB26-IO connector and 100-240VAC power supply, supports max 10 rackmount unit spectrometer channels.	1820,86
<b>AVS-RACKMOUNT-EVO-ETH</b>	19" Rackmount for ETH platform multichannel AvaSpec, including channel synchronization, 4 channel ETH-hub, one DB26-IO connector and 100-240VAC power supply, supports max 10 rackmount unit spectrometer channels (needs AVS-RM-ADDON-5-10ETH).	2142,46
<b>AVS-RM-ADDON-5-10ETH</b>	extra Industrial Hub for extension of AVS-RACKMOUNT-EVO-ETH to 5-10 channels.	456,57
<b>AVS-DESKTOP-EVO-USB3</b>	Desktop for USB3 platform multichannel AvaSpec, including channel synchronization, USB3-hub, one DB26-IO connector and 100-240VAC power supply, supports max 4 rackmount unit spectrometer channels.	1202,48
<b>AVS-DESKTOP-EVO-ETH</b>	Desktop for ETH platform multichannel AvaSpec, including channel synchronization, ETH-hub, one DB26-IO connector and 100-240VAC power supply, supports max 4 rackmount unit spectrometer channels.	1411,52
<b>AvaSpec-ULS2048CL-EVO-RM (-USB3)</b>	Ultra low straylight rackmount unit fiber optic spectrometer, AS7010 el. board with USB3 interfacing, 2048 pixel 14x200 µm CMOS detector, including AvaSoft-Basic software, sync cable, specify grating, wavelength range and options. rackmount (AVS-RACKMOUNT-EVO-USB3) needs to be ordered separately	2892,59
<b>AvaSpec-ULS4096CL-EVO-RM (-USB3)</b>	Ultra low straylight rackmount unit fiber optic spectrometer, AS7010 el. board with USB3 interfacing, 4096 pixel 7x200 µm CMOS detector, including AvaSoft-Basic software, sync cable, specify grating, wavelength range and options. rackmount (AVS-RACKMOUNT-EVO-USB3) needs to be ordered separately	2926,66



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<b>AvaSpec-ULS2048XL-EVO-RM (-USB3 or -ETH)</b>	Ultra low straylight rackmount unit fiber optic spectrometer, AS7010 el. board with USB3 or ETH interfacing, 2048XL pixel back illum CCD detector, including AvaSoft-Basic software, sync cable, specify grating, wavelength range and options. rackmount (AVS-RACKMOUNT-EVO-USB3/ETH) needs to be ordered	4072,66
<b>AvaSpec-NIR256-1.7-EVO-RM (-USB3 or -ETH)</b>	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector, high speed USB3 or ETH interface, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	8363,81
<b>AvaSpec-NIR512-1.7-EVO-RM (-USB3 or -ETH)</b>	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 512 pixel InGaAs detector, high speed USB3 or ETH interface, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	10977,82
<b>AvaSpec-NIR256-1.7-HSC-EVO-RM (-USB3 or -ETH)</b>	Rackmounted unit fiber optic spectrometer, 100 mm AvaBench, 256 pixel InGaAs detector with 1 stage TEC, high speed USB3 interface, including AvaSoft-Basic, USB interface cable, 1000-2500 nm, OSF-1000, specify NIR grating, wavelength range and slit	12029,25
<b>AvaSpec-NIR512-1.7-HSC-EVO-RM (-USB3 or -ETH)</b>	Rackmounted unit fiber optic spectrometer, 100 mm AvaBench, 512 pixel InGaAs detector with 1 stage TEC, high speed USB3 interface, including AvaSoft-Basic, USB interface cable, 1000-2500 nm, OSF-1000, specify NIR grating, wavelength range and slit	14226,28
<b>AvaSpec-NIR256-2.5-HSC-EVO-RM (-USB3 or -ETH)</b>	Rackmounted unit fiber optic spectrometer, 100 mm AvaBench, 256 pixel InGaAs detector with 2 stage TEC, high speed USB3 interface, including AvaSoft-Basic, USB interface cable, 1000-2500 nm, OSF-1000, specify NIR grating, wavelength range and slit	20845,41
<b>AvaSpec-NIR512-2.5-HSC-EVO-RM (-USB3 or -ETH)</b>	Rackmounted unit fiber optic spectrometer, 100 mm AvaBench, 512 pixel InGaAs detector with 2 stage TEC, high speed USB3 interface, including AvaSoft-Basic, USB interface cable, 1000-2500 nm, OSF-1000, specify NIR grating, wavelength range and slit	24596,57

### Options

<b>DCL-UV/VIS-200</b>	Detector collection lens for AvaSpec-ULS2048CL/ 4096CL/2048XL/2048x64(TEC) for > 200 µm fibers, to enhance sensitivity, quartz, 200-1100 nm	157,48
<b>Slit-XX</b>	Slit size, please specify XX = 5*,10, 25, 50, 100, 200, 500 µm. *- not always applicable	146,53
<b>-RS</b>	Replaceable slit, to be added to the product code of the AvaSpec-ULS	441,50
<b>Slit-XX-RS</b>	Replaceable slit with SMA connector. Specify slit size xx = 5*, 10*, 25, 50, 100, 200 or 500 µm, only in combination with AvaSpec-ULS-RS, AvaSpec-NIR256-1.7-RS, AvaSpec-HSCxxx, AvaSpec-NIRxxx-HSC-xxx. *- not always applicable.	213,36
<b>Slit-XX-RS-FCPC</b>	Replaceable slit with FC/PC connector. Specify slit size xx = 5*, 10*, 25, 50, 100, 200 or 500 µm, only in combination with AvaSpec-ULS-RS, AvaSpec-NIR256-1.7-RS and AvaSpec-HSCxxx. *- not always applicable.	325,82
<b>SLIT-KIT-SMA</b>	Slit kit containing of 4 SMA replaceable slits. Choice of 25, 50, 100, 200 and 500 µm slits (any combination), and the tools to replace the slit.	546,72
<b>SLIT-KIT-SMA/FCPC</b>	Slit kit containing of 2 SMA and 2 FCPC replaceable slits. Choice of 25, 50, 100, 200 and 500 µm slits (any combination), and the tools to replace the slit.	691,24
<b>SLIT-KIT-FCPC</b>	Slit kit containing of 4 replaceable slits (FCPC and/or SMA). Choice of 25, 50, 100, 200 and 500 µm slits (any combination), and the tools to replace the slit.	834,95
<b>SLIT-KIT-TOOLS-SMA/FCPC</b>	Tools to replace the slit for SMA or FCPC connector, including box	105,12
<b>GRAT-UNA-DB</b>	Dual blazed grating 300/1000 nm, 300 lines/mm for AvaSpec-ULS2048CL/ 4096CL/2048XL/2048x64(TEC)	782,79
<b>OSF-YYY</b>	Order sorting filter for reduction of second order effects (1 mm < 2%), please specify YY= 305, 395, 475, 515, 550, 600 nm	50,35
<b>OSF-YYY-3</b>	Order sorting filter for reduction of second order effects (filter 3 mm < 0.01%), please specify YY= 305, 395, 475, 515, 550, 600 nm, not for ULS spectrometers	50,35
<b>OSC</b>	Order sorting coating with 600 nm pass filter for BB and VB gratings in ULS2048CL/ 4096CL/2048XL/2048x64(TEC)	169,44
<b>OSC-UA</b>	Order sorting coating with Linear Variable Filter filter for UA/VA gratings in AvaSpec-ULS2048CL/ 4096CL/2048XL/2048x64(TEC)	214,27
<b>OSC-UB</b>	Order sorting coating with 350 and 600 nm pass filter for UB and BB gratings starting < 350 nm inAvaSpec-ULS2048CL/ 4096CL/2048XL/2048x64(TEC)	214,27
<b>OSC-HS500</b>	Order-sorting coating with 350 and 600 nm pass filter for HS500 gratings in AvaSpec-HS	214,27
<b>OSC-HS600</b>	Order sorting coating with 600nm longpass filter for HS600 gratings in AvaSpec-HS	169,44
<b>OSC-HS900</b>	Order-sorting coating with 600 nm pass filter for HS900 gratings in AvaSpec-HS	169,44
<b>OSC-HS1000</b>	Order-sorting coating with 350 nm pass filter for HS1000 gratings in AvaSpec-HS	169,44
<b>OSC-HSC300</b>	Ordersorting coating for HSC300 grating in AvaSpec-HSC1024x58TEC-USB3 (HERO)	214,27
<b>OSC-HSC600</b>	Ordersorting coating for HSC600 grating in AvaSpec-HSC1024x58TEC-USB3 (HERO)	214,27
<b>Purge ULS</b>	Set of 4 mm gas fittings for AvaSpec-ULS purging in DUV (< 200 nm) applications	336,78
<b>-FCPC</b>	FC/PC entrance connector on AvaSpec-ULS instead of SMA	225,22

### Cables

<b>IC-DB26-2</b>	Interface cable AvaSpec-USB2/EVO platform to DB15 for AvaLight-S with shutter for auto save darks & lamp off, AvaLight-XE control, 2 m	111,45
<b>IC-DB26/DB9-2</b>	Interface cable AvaSpec-USB2 platform DB26 male to RS232 DB9 female cable, 2 m	111,45
<b>IC-DB26/DB9/DB15-2</b>	Interface Y-cable AvaSpec-USB2 platform to RS-232 (DB9) and AvaLight-S (DB15) with shutter for auto save dark/ lamp off, AvaLight-XE control, 2 m	156,38
<b>IC-Extrig-USB2</b>	Interface cable AvaSpec-USB2/EVO to external trigger push button, 2 m	111,45
<b>IC-DB26-EXTRIG-BNC-2</b>	Interface cable AvaSpec-USB2/EVO platform to BNC plug external trigger, 2 m	111,45
<b>IC-DB26-Extrig-USB2</b>	Interface Y-cable AvaSpec-USB2/EVO to external trigger push button and AvaLight-S with shutter, 2 m	156,38
<b>IC-DB26-FOS2-2</b>	Interface Y-cable AvaSpec-USB2/EVO platform to FOS-2 and AvaLight-S with shutter, 2 m	167,33
<b>IC-DB26-BEAM-2</b>	Interface cable (2 meters long) (for BSC-DA)	84,12



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<b>IC-DB26-AVASPHERE-0.5</b>	Interface cable (0,5 meters long) (for AvaSphere-50-LS-HAL)	111,45
<b>IC-USB2-2</b>	USB2 Interface cable AvaSpec-USB2 to USB port on PC, 2 m	32,76
<b>IC-COAX-SMB-0.25</b>	Synchronization coax cable with 2 SMB connectors 0.25 m for AvaSpec USB2/EVO platforms	56,78
<b>EL-CABLE-COAX-SMB-ADP</b>	T-Adapter for SMB Synchronization coax cable	56,78
<b>NL-calibration</b>	Non-linearity calibration service (per channel)	112,66
<b>Spectral-cal-service</b>	Spectral calibration service for an AvaSpec, including calibration sheet	169,44
<b>AvaSpec-upgrade</b>	AvaSpec (< 3 years old) upgrade (per channel), change in grating, options (add price of additional options) (Not applicable for all models)	394,56
<b>Systems</b>		
<b>Ava-Raman-785TEC-USB2-SI-RS</b>	Raman System, includes 500 mW 785 nm, TE-controlled diode laser, AvaSpec-ULS2048LTEC-USB2-RS, grating SI (100-3500 cm-1), slit-25-RS, DCL-UV/VIS, AvaSoft-Raman software and 785 nm laser safety goggles	16768,12
<b>Ava-Raman-532TEC-USB2-NC-RS</b>	Raman System, includes 50 mW 532 nm diode laser, AvaSpec-ULS2048LTEC-USB2-RS, grating NC (100-5400 cm-1), slit-25-RS, DCL-UV/VIS, AvaSoft-Raman software and 532 nm laser safety goggles	16768,12
<b>AvaRaman-532HERO-EVO</b>	Raman System, includes 50 mW 532 nm diode laser (FCPC connection), Spectrometer based on an AvaSpec-HERO set for (535-660 nm),slit-25-RS-FCPC; Range : 100 cm-1 - 3650 cm-1, Resolution: 10 cm-1, Replaceable slit = standard, Safety goggle	22410,19
<b>AvaRaman-PRB-XXX</b>	3/8" Standard low cost fiber optic Raman focusing probe, specify Xxx = excitation wavelength	2803,95
<b>AvaRaman-PRB-FP-XXX</b>	1/2" SS focusing probe with 200 µm excitation and 400 µm read fiber, specify Xxx = excitation wavelength	5055,85
<b>AvaRaman-PRB-FIP-XXX</b>	5/8" SS focusing probe for in-situ measurements with 200 µm excitation and 400 µm read fiber, specify Xxx = excitation wavelength	7826,14
<b>AvaRaman-PRB-FC-XXX</b>	3/8" SS focusing probe for in-situ measurements with 200 µm excitation and 400 µm read fiber (500 degr. C and 3000 psi), specify Xxx = excitation wavelength	10122,76
<b>Ava-Raman-SH-3/8"</b>	Rugged sample holder for secure positioning of 3/8" Raman probes	889,93
<b>Ava-Raman-SH-1/2"</b>	Rugged sample holder for secure positioning of 1/2" Raman probes	889,93
<b>Ava-Raman-SH-1/4"</b>	Rugged sample holder for secure positioning of 1/4" Raman probes (Bundles Ava-Raman-D/E/F)	889,93
<b>AvaRaman-Calibrationtile</b>	PTFE white tile for 3/8" Raman probe holder	326,93
<b>Ava-Raman-D</b>	Spectrometer based on an AvaSpec-HERO set for (788-1020nm),slit-25-RS-FCPC; Range : 100 cm-1 - 3000 cm-1, Resolution: 10 cm-1 AvaLaser785 (incl. probe), AvaRaman software: Panorama Light, Replaceable slit = standard, Safety goggle	26579,24
<b>Ava-Raman-E</b>	Spectrometer based on an AvaSpec-ULS2048x64TEC-EVO set for (788-1100nm),slit-25, DCL-UV/VIS-200, FC-PC connector (replaceable -RS); Range : 150 cm-1 - 3600 cm-1, Resolution: 6 cm-1 AvaLaser785 (incl. probe), AvaRaman software: Panorama Light, Replaceable slit option; Safety goggle	21532,13
<b>Ava-Raman-F</b>	Spectrometer based on an AvaSpec-ULS2048CL-EVO set for (788-1100nm),slit-25, DCL-UV/VIS-200, FC-PC connector (replaceable -RS); Range : 150 cm-1 - 3600 cm-1, Resolution: 6 cm-1 AvaLaser785 (incl. probe), AvaRaman software: Panorama Light; Replaceable slit option; Safety goggle	17461,88
<b>Ava-Raman-SH-785Bundle</b>	Light tight cuvette holder for Use with Raman probe of AvaLaser785 used with the Bundles Ava-Raman-D/E/F bundles.. Incl. adjustable gold coated mirror for signal collection.	1044,60
<b>Ava-Raman-XYZ-785Bundle</b>	Manually Adjustable X-Y-Z Stage for use with Raman probe of AvaLaser785 used with the Bundles Ava-Raman-D/E/F bundles.	1307,00
<b>Software</b>		
<b>AvaSoft-Full</b>	Upgrade from AvaSoft-Basic to AvaSoft-Full software for Windows for Avantes spectrometers, includes Avasoft-XLS	224,12
<b>AvaSoft-All</b>	Upgrade from AvaSoft-Basic to AvaSoft-All software including Avasoft Full and applications Color, Irradiance, Chemometrics, Raman and Thinfilm for Windows for Avantes spectrometers	449,34
<b>AvaSoft-COL</b>	Color application add-on software, to be ordered with AvaSoft-Full	111,45
<b>AvaSoft-IRRAD</b>	Irradiance application add-on software, to be ordered with AvaSoft-Full	111,45
<b>AvaSoft-Raman</b>	Raman software module software for AvaRaman system, to be ordered with AvaSoft-Full	111,45
<b>AvaSoft-Thinfilm</b>	Thinfilm software module for the AvaThinfilm system, to be ordered with AvaSoft-Full	111,45
<b>Panorama-Pro</b>	Spectroscopic mathematic dataprocessing software package, 2D/3D display	1689,00
<b>Panorama-Search</b>	Add-on to Panorama Pro, including library module & spectrum search module	961,99
<b>Panorama-Quantify</b>	Add-on to Panorama Pro, including multivariate data analysis with PLS, MLR	1070,33
<b>Panorama-Raman</b>	Add-on to Panorama Pro, including Raman interpretation and functional group assignment	
<b>Panorama-Security</b>	Add-on to Panorama Pro, full 21 CFR part 11 compliance. Ideal for FDA/GXP regulated environments	on request
<b>AvaLIBS-Specline-A</b>	Spectroscopy software for peak finding and identifying spectral lines, complete version with database for atoms and ions according to list	on request
<b>AvaLIBS-Specline-AM</b>	Spectroscopy software for peak finding and identifying spectral lines and molecular bands, complete version with data base for atoms, molecules and ions	on request
<b>AvaLIBS-Specline-AMS</b>	Spectroscopy software for peak finding and identifying spectral lines and molecular bands, complete version with data base for atoms, molecules, extended by many special molecules (e.g. molecular hydrogen and polyatomic molecules)	on request
<b>AVASPEC-DLL</b>	Interface 32- and 64-bit DLL package for AvaSpec-USB2 / EVO platform for Windows , including sample programs	449,34

FOM-DLL	Interface DLL driver package for FOM fiber optic multiplexer for Windows, including sample programs for C++, Delphi and Labview	224,12
COLOR-DLL	32-bit DLL for Windows XP through 8 to calculate L*, a*, b* etc color coefficients	224,12
IRRAD-DLL	32-bit DLL for Windows XP through 8 for irradiance/LED applications	224,12
<b>Lightsources</b>		
AvaLight-DHc	Compact Deuterium-Halogen light source 200-2500 nm with TTL-shutter, needs PS-12V/1.0A (not included)	1745,79
AvaLight-DHc-RM	Compact rackmount Deuterium-Halogen light source 200-2500 nm with TTL-shutter	1677,95
AvaLight-DHc-B	Compact Deuterium-Halogen replacement bulb	557,57
AvaLight-HAL-S-Mini2	10W Tungsten Halogen Lamp, fan-cooled, including shutter, needs extra PS-12V/2.08A power supply.	889,93
AvaLight-HAL-S-MINI2-RM	Avalight-HAL-S-Mini2 in rackmount version	1002,49
AvaLight-HAL-B-Mini2	Replacement bulb for Avalight-HAL-S-Mini(2)	70,75
DONGLE-Mini-H	Dongle for external highpower setting	32,76
DONGLE-Mini-L	Dongle for external longlife setting	32,76
GL-XXX-Y	External glass filter 50x50xY mm for lamp or filter holder	88,54
GL-BG28-Y	External glass filter BG28 50x50xY mm for lamp or filter holder	145,42
AvaLight-D-S	Deuterium light source, 190-400 nm, including TTL shutter, -SR fibers needed	2584,26
AvaLight-DH-S	Deuterium-Halogen light source, 190-2500 nm, including TTL shutter, -SR fibers needed	2696,82
AvaLight-D-S-DUV	Deep-UV Deuterium light source, 175-400 nm, including TTL shutter, -SR fibers needed	2696,82
AvaLight-DH-S-DUV	Deep-UV Deuterium-Halogen light source, 175-2500 nm, including TTL shutter, -SR fibers needed	2809,38
AvaLight-D-B	Replacement Deuterium bulb for AvaLight-D/AvaLight-DH light source	782,79
AvaLight-D-B-DUV	Replacement deep-UV Deuterium bulb for AvaLight-D/AvaLight DH light source	895,35
AvaLight-DH-B	Replacement 5W Halogen bulb for AvaLight-DH light source.	16,38
AvaLight-HAL-B-5W	5W, Tungsten Halogen Replacement bulb for AvaSphere-50-LS-HAL-12V	54,67
AvaLight-D-S-BAL	Balanced Deuterium light source, 215-450 nm, including TTL shutter, -SR fibers needed	3085,55
AvaLight-DH-S-BAL	Balanced Deuterium-Halogen light source, 215-2500 nm, including TTL shutter, -SR fibers needed	3196,00
Avalight-XE	Xenon light source (200-1000 nm), needs interface cable and extra PS-12V/1.0A power supply	1120,47
Avalight-XE-DUV	Xenon light source for DUV (160-1000 nm), needs interface cable and extra PS-12V/1.0A power supply	1345,70
Avalight-XE-RM-U2	Rack mounted Xenon light source (200-1000 nm) for combination with USB2 spectrometer, needs interface cable and PS-12V/1.0A (not included)	1271,43
Avalight-XE-B	Spare bulb for the Avalight-XE (200-1000 nm)	421,90
Avalight-XE-B-DUV	Spare bulb for the Avalight-XE-DUV (160-1000 nm)	619,88
Avalight-XE-HP	6W Xenon light source (200-1000 nm) with Y cable for power and trigger connection to AvaSpec-EVO, needs extra PS-12V/2.08A power supply	1150,12
IC-XE-HP-WTB-2	Interface cable incl. pwr, DB9 to WTB and pwr, 2m for XE-HP to AvaSpec-Mini MK2 IO connector and Powersupply.	84,12
AvaLight-HAL-CAL-MINI	Halogen Light Source calibrated against NIST traceable standard with CC-VIS/NIR diffuser, incl. calibrated PS-12V/2.08A	979,37
AvaLight-HAL-CAL-ISP30-MINI	Halogen Light source calibrated against NIST traceable standard for use with AvaSphere-30-IRRAD, incl. calibrated PS-12V/2.08A and special sphere holder bottomplate	979,37
AvaLight-HAL-CAL-ISP50-MINI	Halogen Light source calibrated against NIST traceable standard for use with AvaSphere-50-IRRAD, incl. calibrated PS-12V/2.08A and special sphere holder bottomplate	979,37
AvaLight-HAL-CAL-ISP80-MINI	Halogen Light source calibrated against NIST traceable standard for use with AvaSphere-80-IRRAD, incl. calibrated PS-12V/2.08A and special sphere holder bottomplate	1124,80
HL-Recal	AvaLight-HAL-CAL-Mini (re)calibration service	219,69
HL-Recal-NIR	AvaLight-HAL-CAL-Mini (re)calibration service for 1100-2500 nm	282,10
AvaLight-D-CAL	UV Deuterium light source, calibrated against NIST traceable standard, with CC-UV/VIS diffuser, -SR fibers recommended	2946,16
AvaLight-DH-CAL	UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, with CC-VIS/NIR diffuser, -SR fibers recommended	3274,09
AvaLight-DH-BAL-CAL	Balanced UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, with CC-VIS/NIR diffuser, -SR fibers recommended	3527,15
AvaLight-DH-CAL-ISP30	UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, for use with AvaSphere-30-IRRAD, including special sphere holder bottomplate -SR fibers recommended	3274,09

<b>AvaLight-DH-CAL-ISP50</b>	UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, for use with AvaSphere-50-IRRAD, including special sphere holder bottomplate -SR fibers recommended	3274,09
<b>AvaLight-DH-CAL-ISP80</b>	UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, for use with AvaSphere-80-IRRAD, including special sphere holder bottomplate -SR fibers recommended	3274,09
<b>DH-Recal</b>	AvaLight-DH-(BAL)-CAL (re)calibration service	439,49
<b>AvaLight-CAL-MINI</b>	Mercury Argon calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	573,96
<b>AvaLight-CAL-NEON-MINI</b>	Neon calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	573,96
<b>AvaLight-CAL-AR-MINI</b>	Argon calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	573,96
<b>AvaLight-CAL-B-MINI</b>	Replacement bulb, 5000 hrs, Mercury-Argon	268,84
<b>AvaLight-CAL-NEON-B-MINI</b>	Replacement bulb, 5000 hrs, Neon	268,84
<b>AvaLight-CAL-AR-B-MINI</b>	Replacement bulb, 5000 hrs, Argon	279,89
<b>AvaLight-CAL-RM</b>	Rack mounted version of Mercury-Argon calibration source, SMA	607,82
<b>AvaLight-CAL-ZINC</b>	Zinc calibration source, 1000 hrs, including power supply, SMA	1796,14
<b>AvaLight-CAL-CAD</b>	Cadmium calibration source, 1000 hrs, including power supply, SMA	1796,14
<b>AvaLight-CAL-ZINC-B</b>	Zinc spare bulb, 1000 hrs	782,79
<b>AvaLight-CAL-CAD-B</b>	Cadmium spare bulb, 1000 hrs	782,79
<b>AvaLight-HPLED-xxx</b>	Miniature High Power LED source, specify wavelength XXX = 385, 405, 471, 530, 625, White; includes 5V Power Supply	845,71
<b>AvaLight-HPLED-285</b>	Miniature High Power LED source, wavelength 285; includes 5V Power Supply	1241,18
<b>AvaLight-LED-XXX</b>	Miniature LED source, specify wavelength Xxx = 355, 380, 400, 410, 430, 450, 470, 530, 590, 780 nm, other wavelengths available on request, needs PS-12V/1.0A (not included)	651,64
<b>AvaLight-LED-XXX-RM</b>	Rackmount version of miniature LED source, specify wavelength Xxx = 355, 380, 400, 410, 430, 450, 470, 530, 590, 780 nm	651,64
<b>AvaLight-LED-CON</b>	LED light source control unit with electrical connector to LED, needs interface cable and PS-12V/1.0A (not included)	541,29
<b>CUV-LED-XXX</b>	LED holder for cuvette, specify LED wavelength	320,49

## Fiber Optics

### Patchcords

<b>FC-IR008-2</b>	Fiber cable, 8 µm fiber, 2 m, SMA terminated	108,74
<b>FC-UV050-2</b>	Fiber cable, UV/VIS, 50 µm fiber, 2 m, SMA terminated	162,11
<b>FC-IR050-2</b>	Fiber cable, VIS/NIR, 50 µm fiber, 2 m, SMA terminated	108,74
<b>FC-UVIR100-1</b>	Fiber cable, 100 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1 m, SMA terminated	102,51
<b>FC-UVIR100-2</b>	Fiber cable, 100 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	126,53
<b>FC-UVIR200-1</b>	Fiber cable, 200 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1 m, SMA terminated	102,51
<b>FC-UVIR200-2</b>	Fiber cable, 200 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	126,53
<b>FC-UVIR200-2-ME</b>	Fiber cable, 200 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	158,49
<b>FC-UVIR400-1</b>	Fiber cable, 400 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1 m, SMA terminated	113,97
<b>FC-UVIR400-1.7</b>	Fiber cable, 400 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1.7 m, SMA terminated	138,10
<b>FC-UVIR400-2</b>	Fiber cable, 400 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	148,44
<b>FC-UVIR400-2-ME</b>	Fiber cable, 400 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	196,38
<b>FC-UVIR600-1</b>	Fiber cable, 600 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1 m, SMA terminated	148,44
<b>FC-UVIR600-1-ME</b>	Fiber cable, 600 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1 m, SMA terminated	164,42
<b>FC-UVIR600-2</b>	Fiber cable, 600 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	217,48
<b>FC-UVIR600-2-ME</b>	Fiber cable, 600 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 2 m, SMA terminated	249,44
<b>FC-xx800-1</b>	Fiber cable, 800 µm fiber, 1 m, SMA terminated, xx = UV or IR	187,23
<b>FC-xx800-2</b>	Fiber cable, 800 µm fiber, 2 m, SMA terminated, xx = UV or IR	295,97
<b>FC-xx1000-1</b>	Fiber cable, 1000 µm fiber, 1 m, SMA terminated	242,51
<b>FC-xx1000-2</b>	Fiber cable, 1000 µm fiber, 2 m, SMA terminated	405,72
<b>FC-UVIR400-1-FIA</b>	Fiber cable, 400 µm fiber, broadband UV/VIS/NIR (200-2500 nm), 1 m, 1 SMA and 1.5 mm ferrule for FIA-Z-CELL	268,64
<b>FCRL-7UVIR100-2</b>	Round to linear fiber cable, 7x100 µm UVIR fibers, 2 m, SMA terminated	365,92

<b>FCRL-4UVIR200-2</b>	Round to linear fiber cable, 4x200 µm UVIR fibers, 2 m, SMA terminated	365,92
<b>-BX (FC-)</b>	Flexible full interlocking stainless steel sheathing 6 mm OD, add per meter; Add on price only applicable for FC-UVIRxxx-1 or -2	21,31
<b>-ME (FC-)</b>	Flexible chrome plated brass sheathing 5 mm OD, add per meter, Add on price only applicable for FC-UVIRxxx-1 or -2	15,98
<b>-MS (FC-)</b>	Flexible metal sheathing with silicone cover, IP67, add per meter . Add on price only applicable for FC-UVIRxxx-1 or -2	49,04
<b>-HT</b>	High temperature (max 200 drg. C) for all metal sheathing cables and probes	50,15
<b>PRESOL</b>	Presolarisation of UVIR fiber	52,26
<b>-FC/PC</b>	FC/PC connector terminated instead of standard SMA-905 for FC- (Not FCRL), per connector extra	36,28
<b>-SR (UV800)</b>	Solarization resistant fiber for DUV applications, 800 µm only, add per meter	55,98
<i>Multifurcated</i>		
<b>FCB-UV050-2</b>	Bifurcated fiber cable, 50 µm fibers, UV/VIS, 2 m, SMA terminated	378,58
<b>FCB-IR050-2</b>	Bifurcated fiber cable, 50 µm fibers, VIS/NIR, 2 m, SMA terminated	268,64
<b>FCB-UVIR100-2</b>	Bifurcated fiber cable, 100 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 2 m, 3x SMA	268,64
<b>FCB-UVIR200-2</b>	Bifurcated fiber cable, 200 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 2 m, 3x SMA	297,98
<b>FCB-UVIR400-1</b>	Bifurcated fiber cable, 400 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 1 m, 3 x SMA	242,00
<b>FCB-UVIR400-1.7</b>	Bifurcated fiber cable, 400 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 1.7 m, 3 x SMA	298,07
<b>FCB-UVIR400-2</b>	Bifurcated fiber cable, 400 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 2 m, 3 x SMA	322,10
<b>FCB-UVIR600-2</b>	Bifurcated fiber cable, 600 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 2 m, 3 x SMA	429,74
<b>-BX (FCB-xxx-2)</b>	Flexible full interlocking stainless steel sheathing 6 mm OD, incl. Stainless Steel couple piece, add per item; Add on price only applicable for FCB-UVIRxxx-2	141,20
<b>-ME (FCB-xxx-2)</b>	Flexible chrome plated brass sheathing 5 mm OD, add per item, Add on price only applicable for FCB-UVIRxxx-2	47,94
<b>-MS (FCB-xxx-2)</b>	Flexible metal sheathing with silicone cover, IP67, incl. Stainless Steel couple piece, add per item . Add on price only applicable for FCB-UVIRxxx-2	224,82
<b>FCB-UVIR100-1</b>	Bifurcated fiber cable, 100 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 1 m, 3x SMA	222,31
<b>FCB-UVIR200-1</b>	Bifurcated fiber cable, 200 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 1 m, 3x SMA	222,31
<b>FCB-UVIR400-1</b>	Bifurcated fiber cable, 400 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 1 m, 3 x SMA	242,00
<b>FCB-UVIR600-1</b>	Bifurcated fiber cable, 600 µm fibers, broadband UV/VIS/NIR (200-2500 nm), 1 m, 3 x SMA	269,84
<b>-BX (FCB-xxx-1)</b>	Flexible full interlocking stainless steel sheathing 6 mm OD, incl. Stainless Steel couple piece, add per item; Add on price only applicable for FCB-UVIRxxx-1	109,75
<b>-ME (FCB-xxx-1)</b>	Flexible chrome plated brass sheathing 5 mm OD, add per item, Add on price only applicable for FCB-UVIRxxx-1	24,12
<b>-MS (FCB-xxx-1)</b>	Flexible metal sheathing with silicone cover, IP67, add per item incl. Stainless Steel couple piece. Add on price only applicable for FCB-UVIRxxx-1	151,65
<b>-HT</b>	High temperature (max 200 drg. C) for all metal sheathing cables and probes	50,15
<b>PRESOL</b>	Presolarisation of UVIR fiber	52,26
<b>-FC/PC</b>	FC/PC connector terminated instead of standard SMA-905, per connector extra	36,28
<b>FC3-UVIR200-2</b>	Trifurcated cable, 3x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	425,52
<b>FC3-UVIR400-2</b>	Trifurcated cable, 3x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	533,25
<b>FC3-UVIR600-2</b>	Trifurcated cable, 3x600 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	748,62
<b>FC4-UVIR200-2</b>	Four-furcated cable, 4x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	533,25
<b>FC4-UVIR400-2</b>	Four-furcated cable, 4x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	640,99
<b>FC4-UVIR600-2</b>	Four-furcated cable, 4x600 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	965,10
<b>FC5-UVIR200-2</b>	Five-furcated cable, 5x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	640,99
<b>FC5-UVIR400-2</b>	Five-furcated cable, 5x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	829,23
<b>FC6-UVIR200-2</b>	Six-furcated cable, 6x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	794,65
<b>FC6-UVIR400-2</b>	Six-furcated cable, 6x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	958,77
<b>FC8-UVIR200-2</b>	Eight-furcated cable, 8x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	1066,51
<b>FC8-UVIR400-2</b>	Eight-furcated cable, 8x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (200-2500 nm)	1281,88
<b>-BX (FCx-)</b>	Flexible full interlocking stainless steel sheathing 6 mm OD, incl. Stainless Steel couple piece, add per item; Add on price only applicable for FCB3/4/5/6/8-UVIRxxx-	141,20
<b>-ME (FCx-)</b>	Flexible chrome plated brass sheathing 5 mm OD, add per item, Add on price only applicable for FCB3/4/5/6/8-UVIRxxx-2	47,94

-MS (FCx-)	Flexible metal sheathing with silicone cover, IP67, incl. Stainless Steel couple piece, add per item . Add on price only applicable for FCB3/4/5/6/8-UVIRxxx-2	224,82
-HT	High temperature (max 200 drg. C) for all metal sheathing cables and probes	50,15
PRESOL	Presolarisation of UVIR fiber or probe	52,26
-FC/PC	FC/PC connector terminated instead of standard SMA-905, per connector extra	36,28
<i>Vacuum feedthrough</i>		0,00
FC-VFT-xx050	Vacuum feedthrough for 50 µm fibers, including SMA adapter, needs 2 extra SMA interconnects. xx = UV or IR	297,58
FC-VFT-UVIR100	Vacuum feedthrough for 100 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	297,58
FC-VFT-UVIR200	Vacuum feedthrough for 200 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	297,58
FC-VFT-UVIR400	Vacuum feedthrough for 400 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	297,58
FC-VFT-UVIR600	Vacuum feedthrough for 600 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	297,58
FC-VFT-xx800	Vacuum feedthrough for 800 µm fibers, including SMA adapter, needs 2 extra SMA interconnects. xx = UV or IR	297,58
FC-VFT-xx1000	Vacuum feedthrough for 1000 µm fibers, including SMA adapter, needs 2 extra SMA interconnects. xx = UV or IR	297,58

**Fiber Optics - probes**

FCR-7UVIR200-2-ME	Reflection probe, 6 illumination, 1 read fiber, 200 µm fibers with flexible metal sheathing, broadband UV/VIS/NIR (200-2500 nm)	533,25
FCR-7UVIR200-2-BX	Reflection probe, 6 illumination, 1 read fiber, with flexible Stainless Steel jacketing & couple piece, broadband UV/VIS/NIR (200-2500 nm)	637,77
FCR-7UVIR400-2-ME	Reflection probe, 6 illumination, 1 read fiber, 400 µm fibers with flexible metal sheathing, broadband UV/VIS/NIR (200-2500 nm)	748,62
FCR-7UVIR400-2-BX	Reflection probe, 6 illumination, 1 read fiber, 400 µm fibers with flexible Stainless Steel jacketing & couple piece, broadband UV/VIS/NIR (200-2500 nm)	853,14
FCR-19UVIR200-2-ME	Reflection probe, 17 illumination, 2 read fibers in separate legs, SMA, metal sheathing, broadband UV/VIS/NIR (200-2500 nm)	1071,73
FCR-19UVIR200-2-BX	Reflection probe, 17 illumination, 2 read fibers in separate legs, SMA, with flexible Stainless Steel jacketing & couple piece, broadband UV/VIS/NIR (200-2500 nm)	1176,35
FCR-90-OPTION	90° Reflection add-on reflector for use with all 1/4" Reflection probes	214,37
FCR-COL-UV/VIS	Adjustable UV/VIS/NIR collimating/focusing lens	214,37
FCR-14UVIR200-2-REF-ME	Reflection probe with reference, 2 m, SMA terminated, with flexible metal sheathing, broadband UV/VIS/NIR (200-2500 nm)	1039,37
FCR-14UVIR200-2-REF-BX	Reflection probe with reference, 2 m, SMA terminated, with flexible Stainless Steel jacketing & couple piece, broadband UV/VIS/NIR (200-2500 nm)	1144,90
FCR-7UVIR200-2-1.5x100	Reflection probe, 6+1 fibers, 1.5x100 mm tip, 2 m, broadband UV/VIS/NIR (200-2500 nm)	598,08
FCR-7UVIR200-2-2.5x100	Reflection probe, 6+1 fibers, 2.5x100 mm tip, 2 m, broadband UV/VIS/NIR (200-2500 nm)	598,08
FCR-7UVIR100-2-1x25	Reflection probe for AFH-ocular, 6+1 broadband UV/VIS/NIR fibers, 1.0 x 25 mm tip, 2 m	462,90
FCR-7UVIR200-2-45-ME	Reflection probe, 45 degr. window for liquids and powders with flexible metal sheathing, broadband UV/VIS/NIR (200-2500 nm)	818,77
FCR-7UVIR200-2-45-BX	Reflection probe, 45 degr. window for liquids and powders with flexible Stainless Steel jacketing & couple piece, broadband UV/VIS/NIR (200-2500 nm)	923,29
FCR-7UVIR200-2-45-IND	1/2" reflection probe, 45 degr. window for liquids and powders with flexible metal sheathing, broadband UV/VIS/NIR (200-2500 nm)	1071,73
FCR-TIP45	1/2" replacement tip with 45 degr. window for liquids and powders	324,21
FCR-UVIR200/600-2-IND	1/2" reflection probe for fluorescence applications	1203,09
FCR-FLTIP-IND	Fluorescence reflector accessory for 1/2" FCR-45-IND probes	467,12
FDP-2UVIR200-2-2.5-mini	1/8" mini dip probe, 2,5 mm spacing, 10 mm path length, broadband UV/VIS/NIR (200-2500 nm), 2 m	786,21
FDP-2UVIR200-2-5-mini	1/8" mini dip probe, 5 mm spacing, 10 mm path length, broadband UV/VIS/NIR (200-2500 nm), 2 m	786,21
FDP-7UVIR200-2-yy	Transmission dip probe, specify tip spacing yy = 1, 2.5 or 5 mm (optical path=2*yy), metal sheat, broadband UV/VIS/NIR (200-2500 nm)	964,00
FDP-TIP-yy	Replacement tip for dip probe, specify tip spacing yy = 1, 2.5 or 5 mm	268,64
FDP-14UVIR200-2-yy-REF-ME	Transmission dip probe with reference, specify tip spacing yy = 1, 2.5 or 5 mm (optical path=2*yy), broadband UV/VIS/NIR (200-2500 nm)	1362,48
FDP-7UVIR200-2-VAR	Transmission dip probe with variable tip length (0.25-10 mm (optical path=0.5-20 mm)), broadband UV/VIS/NIR (200-2500 nm)	1071,73
FDP-7UVIR200-2-VAR-PK	Transmission dip probe in PEEK with variable tip length (0.25-10 mm (optical path=0.5-20 mm)), broadband UV/VIS/NIR (200-2500 nm)	1394,84
FDP-14UVIR200-2-VAR-REF-ME	Transmission dip probe with variable tip length with reference (0.25-10 mm (optical path=0.5-20 mm)), broadband UV/VIS/NIR (200-2500 nm)	1577,85
FDP-TIP-VAR	Replacement stainless steel tip for transmission dip probe with variable tip length	324,21
FDP-TIP-VAR-PEEK	Replacement PEEK tip for Transmission dip probe with variable tip length	488,43

**Fiber Optics - accessories**

COL-UV/VIS	Collimating lens for UV/VIS/NIR, including SMA adapter, adjustable focus	122,41
COL-UV/VIS-FC/PC	Collimating lens for UV/VIS/NIR, including FC/PC adapter, adjustable focus	173,87
COL-90-UV/VIS	Right angle collimating lens for UV/VIS/NIR, including SMA connector	336,78
COL-UV/VIS-25	Collimating lens 25 mm for UV/VIS/NIR, including SMA adapter and adjustable focus	557,57





<b>DA-COL-SPEC</b>	Direct Attached Collimator for Spectrometer. Usable for parallel incoming beams.	122,41
<b>CC-UV/VIS</b>	Cosine corrector for UV/VIS with SMA coupling	156,38
<b>CC-UV/VIS/NIR-5.0</b>	Cosine corrector with diffusing material for UV/VIS/NIR, special 5.0 degrees aperture, SMA coupling	1408,01
<b>CC-VIS/NIR</b>	Cosine corrector for UV/VIS/NIR with SMA coupling	224,12
<b>CC-UV/VIS/NIR-8MM</b>	Cosine corrector with diffusing material for UV/VIS/NIR, 8 mm active area, SMA	294,06
<b>CC-DA-4.5</b>	Direct attach cosine corrector for all SMA AvaSpecs with diffusing material for UV/VIS/NIR, 4.5 mm	300,70
<b>MMA1-UV/VIS-SMA</b>	UV/VIS homogenizer / mode stripper, 1 mm diameter for SMA connectors	336,78
<b>MMA3-UV/VIS-SMA</b>	UV/VIS homogenizer / mode stripper, 3 mm diameter for SMA connectors	336,78
<b>AVS-MFA-SMA</b>	C-mount adapter for Olympus, SMA connector	214,27
<b>AVS-CMOUNT-SMA</b>	C-mount adapter, SMA connector	214,27
<b>AVS-CMOUNT-FCPC</b>	C-mount adapter, FC/PC connector	214,27
<b>RPH-1</b>	Reflection probe holder for straight or 45 degree measuring	100,50
<b>AFH-15</b>	Angled fiber probe holder for measuring under different angles, needs 1.5 mm ferrule fibers	279,89
<b>FC-UVIR200-2-1.5x40</b>	Fiber cable, 200 µm UV/VIS/NIR broadband fiber, 2 m, one end with SMA connector, other end with stainless steel ferrule, OD=1.5 mm x 40 mm	229,64
<b>AFH-Ocular</b>	Angled fiber probe holder for precise measurements under 45 degrees, including ocular. Needs FCR-7UV100-2-1x25	557,57
<b>FCR-7UVIR100-2-1x25</b>	Reflection probe with 7x100 µm UV/VIS/NIR broadband fibers to 1x25 mm stainless steel ferrule, 2 meter long with PVC/Kevlar protection sleeve and 2 SMA	474,56
<b>TR-Stage</b>	Transmissionstage for use with 30 / 50mm Avasphere, WS-2 reference tile, COL-UV/VIS or 6.35mm probe. With extra additional plate also the AvaSphere-50-LS-HAL-12V (not included).	1365,39
<b>TR-LSHAL-Holder</b>	Additional AvaSphere-50-LS-HAL-12V holder for TR-STAGE.	377,18
<b>ME-FI-SM-MM</b>	SMA fiber interconnect, panel mountable	10,95
<b>ME-FI-FCPC-MM</b>	FC/PC fiber interconnect, panel mountable	32,76
<b>ME-SM-BC</b>	SMA to TO18 adapter	27,24
<b>ME-SM-BC-S</b>	SMA to TO5 adapter	21,81
<b>ME-FCPC-BC</b>	FC/PC bulkhead adapter	32,76
<b>SMA-CAPS</b>	Set of 5 metal SMA protection caps for Avantes spectrometers.	16,38
<b>Accessories</b>		
<b>BSC-DA</b>	Direct-Attach Beam Splitter / Combiner, includes IC-DB26-BEAM-0.6 (0.6 m interface cable), needs extra PS-5V / 1.1 A power supply	1458,36
<b>CUV-UV/VIS</b>	Cuvette holder, 10 mm path, includes 2 UV/VIS/NIR collimating lenses and cover	500,79
<b>CUV-FL-UV/VIS</b>	Cuvette holder, 10 mm path, with fluorescence port, 2 UV/VIS/NIR lenses, 2 coated mirrors and cover	670,13
<b>CUV-ALL-UV/VIS</b>	Cuvette holder, 10 mm path, 2 beams, 4 x UV/VIS/NIR collimating lenses and cover	895,35
<b>CUV-FL-MIRROR</b>	SiO2 coated aluminum mirror	78,59
<b>CUV-10-2</b>	Quartz cuvette 10 mm, 2 windows, 3.5 ml	66,63
<b>CUV-10-4</b>	Quartz cuvette 10 mm, 4 windows, 3.8 ml	152,76
<b>CUV-UV/VIS-TC-ABS</b>	Absorbance kit. Price includes qpod sample compartment, TC 125 temperature controller, two QCL-UV collimating lenses, BATH 100 submersible pump, QSLITS optical slits, cover with access cap, tubing, cables and a stir bar, and Q-Blue control software	3906,94
<b>CUV-UV/VIS-TC-FL</b>	Fluorescence kit. Price includes qpod sample compartment, TC 125 temperature controller, two QILUV imaging lenses and 2 QMP mirror plugs, BATH 100 submersible pump, QSLITS optical slits, cover with access cap, tubing, cables and a stir bar, and Q-Blue control software	4285,92
<b>CUV-UV/VIS-TC-ABS/FL</b>	Absorbance & fluorescence kit. Price includes qpod sample compartment, TC 125 temperature controller, two QCL-UV collimating lenses, 2 QILUV imaging lenses and 2 QMP mirror plugs and 2 QMP mirror plugs, BATH 100 submersible pump, QSLITS optical slits, cover with access cap, tubing, cables and a stir bar, and Q-Blue control software	4830,83
<b>CUV-UV/VIS-TC-AVXE</b>	Base plate and support with AR-coated fused silica lens pair for excitation using the AvaLight-XE pulsed Xenon light sources	759,68
<b>CUV-TC-QCL-UV</b>	AR coated fused silica collimating lens for temperature controlled cuvette holder	219,69
<b>CUV-TC-QIL-UV</b>	AR coated fused silica imaging lens for temperature controlled cuvette holder	332,45
<b>CUV-TC-QMP</b>	Spherical mirror plate with steering plate for CUV-UV/VIS-TC	146,53
<b>CUV-TC-QFH</b>	Filter holder for CUV-UV/VIS-TC	82,01
<b>FH-DA</b>	Direct-attach filter holder for 13 mm diameter filters, 1-8 mm thick, including one UV/VIS collimating lens for AvaLight-DHc/XE/LED mounting	326,93

<b>FH-DA-HAL-MINI</b>	Direct-attach Filter Holder for 13 mm diameter filters, 1-8 mm thick, incl. one UV/VIS collimating lens for AvaLight-HAL mounting	317,08
<b>GL-XXX-3-12</b>	External glass filter 12 mm round, 3 mm thick for FH-Inline	86,83
<b>GL-BG28-3-12</b>	External glass filter BG28 12 mm round, 3 mm thick for FH-Inline	111,45
<b>CUV-DA</b>	SMA screw-on 10 mm cuvette holder for AvaLight-DHc/XE/LED, including COL-UV/VIS lens and 2 mirrors. Optional CUV-COVER-DA	552,15
<b>CUV-DA-DHS</b>	Direct attached 10 mm cuvette holder for AvaLight-DH(S), including COL-UV/VIS lens and 2 mirrors	552,15
<b>CUV-DA-HAL-MINI</b>	Direct attachment 10 mm cuvette holder for AvaLight-HAL(S), incl. COL-UV/VIS lens and 2 mirrors. Optional CUV-COVER-DA	535,67
<b>ATT-DA</b>	Direct-attached fiber-optic attenuator for AvaLight-DHc/XE/LED, 0-100%, SMA connector	591,34
<b>ATT-DA-HAL-MINI</b>	Direct-attach Fiber-optic Attenuator for AvaLight-HAL(S), 0-100%, SMA connector	573,96
<b>CUV-ATT-DA</b>	Direct attached cuvette holder including attenuator for AvaLight-DHC, AvaLight-XE and AvaLight-LED. Optional CUV-COVER-DA	1115,05
<b>CUV-ATT-DA-HAL-MINI</b>	Direct attached cuvette holder incl. attenuator for AvaLight-HAL(S). Optional CUV-COVER-DA	1082,18
<b>CUV-COVER-DA</b>	Cover for Direct Attached cuvette holders. Suitable for CUV-ATT-DA(-HAL-MINI) & CUV-DA(-HAL-MINI)	49,14
<b>FH-INL</b>	In-line filter holder for filters up to 1/2" diameter and 1-8 mm thickness, including 2 COL-UV/VIS	326,93
<b>FH-INL-1"</b>	In-line filter holder for 1" filters, max 60 mm optical path, including 2 collimating lenses and SMA connectors	782,79
<b>ATT-INL-EXT</b>	In-Line Fiberoptic Attenuator. Connections: 2 x SMA. Attenuation: 0-100%. Control: manual lever and fixation screw.	573,96
<b>CUV-VAR-UV/VIS</b>	Cuvette holder with variable path length 10-160 mm path, includes 2 COL-UV/VIS lenses	1452,83
<b>AvaSphere-30-IRRAD</b>	Sphere 30 mm for light measurements (250-2500 nm), sample port 6 mm, 1 SMA port	1452,83
<b>AvaSphere-50-IRRAD</b>	Sphere 50 mm for light measurements (250-2500 nm), sample port 10 mm, 1 SMA port	1790,71
<b>AvaSphere-80-IRRAD</b>	Sphere 80 mm for light measurements (250-2500 nm), sample port 15 mm, 1 SMA port	2241,05
<b>AvaSphere-30-REFL</b>	Integrating sphere 30 mm for reflection (250-2500 nm), sample port 6 mm diameter, 2 SMA ports (illuminance & reflectance)	1565,29
<b>AvaSphere-50-REFL</b>	Integrating sphere 50 mm for reflection (250-2500 nm), sample port 10 mm diameter, 2 SMA ports (illuminance & reflectance)	1903,17
<b>AvaSphere-80-REFL</b>	Integrating sphere 80 mm for reflection (250-2500 nm), sample port 15 mm diameter, 2 SMA ports (illuminance & reflectance)	2466,17
<b>AvaSphere-LED-ADR</b>	Cylindrical adapter to hold 3, 5, 8 mm LEDs inside the AvaSphere-50-IRRAD	111,45
<b>AvaSphere-LED-ADR-80</b>	Cylindrical adapter to hold 3, 5, 8 mm LEDs inside the AvaSphere-80-IRRAD	213,26
<b>AvaSphere-GT50</b>	Optional gloss-trap 10 mm for AvaSphere-50-REFL, coated with black absorbing material	224,12
<b>AvaSphere-GT-50-0-W</b>	Gloss-trap 10 mm for AvaSphere-50-REFL, coated with white material to include specular reflection	224,12
<b>AvaSphere-COL-PLUG-W</b>	Optional replacement for collimating lens on top of AvaSphere-50-REFL to realise IRRAD functionality.	224,12
<b>AvaSphere-50-HOLD</b>	WS-2(-GEM) tile holder for AvaSphere-50-REFL/LS-HAL	166,13
<b>AvaSphere-50-LS-HAL-12V</b>	Integrating sphere 50 mm for reflection(360-2500nm), including 5W halogen lightsource, sample port 10 mm diam., 2 SMA ports (reflection and reference), 12V power supply, Switching Line	2241,05
<b>AvaSphere-100</b>	Integrating sphere, 100 mm, 3 ports (0, 90, NP), 1 baffled SMA port, including post mount	2083,67
<b>AvaSphere-100-SMA</b>	Additional SMA port for the AvaSphere-100	282,10
<b>AvaSphere-100-PR10</b>	Port reducer for the AvaSphere-100 to 10 mm	394,56
<b>AvaSphere-100-PP</b>	Port plug for unused ports for the AvaSphere-100	157,48
<b>AvaSphere-150</b>	Integrating sphere, 150 mm, 3 ports (0, 90, NP), 1 baffled SMA port, including post mount	2759,23
<b>AvaSphere-150-SMA</b>	Additional SMA port for the AvaSphere-150	282,10
<b>AvaSphere-150-PR10</b>	Port reducer for the AvaSphere-150 to 10 mm	394,56
<b>AvaSphere-150-PP</b>	Port plug for unused ports for the AvaSphere-150	157,48
<b>AvaSphere-200</b>	Integrating sphere, 200 mm, 3 ports (0, 90, NP), 1 baffled SMA port, including post mount	5066,91
<b>AvaSphere-200-SMA</b>	Additional SMA port for the AvaSphere-200	282,10
<b>AvaSphere-200-PR10</b>	Port reducer for the AvaSphere-200 to 10 mm	573,96
<b>AvaSphere-200-PP</b>	Port plug for unused ports for the AvaSphere-200	157,48
<b>CLH-VAR-UV/VIS</b>	Variable collimating lens holder, including 2 COL-UV/VIS collimating lenses	895,35
<b>OPM</b>	Optical post mount	145,42
<b>AvaTripod</b>	Tripod with COL-UV/VIS thread and 6.8 mm hole for FCR and CC-UV/VIS	179,29
<b>AvaTrigger-USB2</b>	External trigger box, with optical entrance for USB2/EVO platform, including IC-DB26-2	557,57
<b>FOS-2-INL</b>	In-line fiber optic switch, 2 independently controlled optical paths, including 4 COL-UV/VIS, needs 12V power supply and interface cable (not included)	1429,71

<b>IC-DB26-FOS-SHUTTER-0.6</b>	Interface cable AvaSpec-EVO platform to FOS, 0.6 m	109,24
<b>IC-DB26-FOS-SHUTTER-2</b>	Interface cable AvaSpec-EVO platform to FOS, 2 m	109,24
<b>DA-Shutter</b>	Direct Attached Shutter, one optical path, including controlbox, needs 12V power supply and interface cable (not included).	768,83
<b>IC-DB26-DA-AS-SHUTTER-0.6</b>	Interface cable AvaSpec-EVO platform to DA-Shutter, 0.6 m	109,24
<b>IC-DB26-DA-AS-SHUTTER-2</b>	Interface cable AvaSpec-EVO platform to DA-Shutter, 2 m	109,24
<b>FOM-UVIR400-1x16</b>	Fiber optic multiplexer, 1 x 16 channels, 400 µm, UV/VIS/NIR	7826,14
<b>FOM-UVIR400-2x8</b>	Fiber optic multiplexer, 2 x 8 channels, 400 µm, UV/VIS/NIR	7826,14
<b>FOM-UVIR400-4x4</b>	Fiber optic multiplexer, 4 x 4 channels, 400 µm, UV/VIS/NIR	7826,14
<b>Flowcell-1/4"</b>	Flow cell 1/4" with variable SMA adapter, 5 mm path length, including 2 UV/VIS/NIR lenses	670,13
<b>Flowcell-1/2"</b>	Flow cell 1/2" with variable SMA adapter, 10 mm path length, including 2 UV/VIS/NIR lenses	895,35
<b>Flowcell-1"</b>	Flow cell 1" with variable SMA adapter, 20 mm path length, including 2 UV/VIS/NIR lenses	1355,44
<b>Flowcell-1/4"-FL</b>	Fluorescence flow cell 1/4" with 2 SMA adapters, including 1 UV/VIS/NIR lens	1175,15
<b>Flowcell-1/4"-5-HPHT</b>	Flow cell for gasses and liquids 1/4", 5 mm optical path length with SMA adapter, including 2 UV/VIS/NIR lenses, high pressure 100 bar, high temp 200 degr C.	1054,95
<b>Flowcell-1/4"-50-HPHT</b>	Flow cell for gasses and liquids 1/4", 50 mm optical path length with SMA adapter, including 2 UV/VIS/NIR lenses, high pressure 100 bar, high temp 200 degr C.	1672,52
<b>Flowcell-Z-10</b>	Flow cell with 10mm optical path, ID 1.5 mm, needs 2 pcs FC-UVIR400-1-FIA fibers	419,79
<b>Flowcell-1.5</b>	Flow cell with 1.5 mm optical path, ID 1.5 mm, needs 2 pcs FC-UVIR400-1-FIA fibers	425,22
<b>RS-2</b>	Specular reflectance standard with Al+MgF2, 200-2500 nm	439,49
<b>RS-2-CAL</b>	Specular reflectance standard with Al+MgF2, 250-2500 nm	889,93
<b>WS-2</b>	White reference tile for reflectance measurements. Diffuse, 98%	287,53
<b>WS-2-CAL</b>	NIST traceable calibrated white reference tile with 8° hemispherical calibration	895,35
<b>WS-2-GEM</b>	White reference tile with 10 mm radius hole, specially for gemstone measurement	394,56
<b>BS-2</b>	Black reference tile for reflectance measurements. Diffuse, 2%	444,41
<b>GS-2</b>	Grey reference tile for reflectance measurements. Diffuse, 50%	444,41
<b>PS-5V/1.1A</b>	Power Supply for BSC-DA	33,87
<b>PS-12V/1.0A</b>	Power supply 100-240VAC/12VDC, minimal 1.0A, necessary for AvaLight-XE, AvaLight-DHc, AvaLight-LED, AvaLight-CAL, AvaSpec-EVO (ETH mode) europlug	43,72
<b>PS-12V/2.08A</b>	Power Supply for Avalight-HAL-(S)-Mini and AvaLight-XE-HP	62,31
<b>PS-24V/1.25A</b>	Power supply 100-240VAC/24VDC, 1.25A, necessary for FOS-x, europlug standard, otherwise please specify -UK, -US, -AUS	87,94
<b>PowerBank-12-24V</b>	Powerbank 12-24VDC, 65W, preset to 12V, incl. cable and charger	427,63
<b>AVS-DEVKIT-AS5216</b>	Developer Kit consisting of: PCB-IO-EXT-BES Printed Circuit Board for connection to Avantes Spectrometers with AS5216 or AS7010 electronics boards, to easily control and connect signals to the IO connector. IC-IOEXT-DB26 connection cable to connect the board to DB26 connector.	421,90
<b>IRRAD-CAL-UV</b>	Irradiance calibration service UV range (200-400 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full, AvaSoft-Irrad and presolarized fibers (PRESOL)	282,10
<b>IRRAD-CAL-VIS</b>	Irradiance calibration service VIS range (360-1100 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full and AvaSoft-Irrad (calibration standardly performed without Straylight Correction Algorithm if applicable)	282,10
<b>IRRAD-CAL-NIR</b>	Irradiance calibration service NIR range (1100-2400 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full and AvaSoft-Irrad	282,10
<b>IRRAD-CAL-UV/VIS</b>	Irradiance calibration service UV/VIS range (200-1100 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full, AvaSoft-Irrad and presolarized fibers (PRESOL) (calibration standardly performed without Straylight Correction Algorithm if applicable)	563,00
<b>Thinfilm-Stage</b>	Stage to hold reflection probe	444,91
<b>Thinfilm-Standard</b>	3 Thinfilm Si-SiO2 wafer parts in housing, one reference and 2 samples, including calibration sheet	326,93
<b>Thinfilm-Standard-Multilayer</b>	3 Thinfilm Si-SiO2 wafer parts in housing, one reference and 2 samples with 3 and 5 layers, including calibration sheet	541,19