

page	SPECTROMETERS		
19	AvaSpec-128	Fiber Optic Spectrometer, 45 mm Avabench, 128 pixel PDA detector, USB1.1/RS-232 interface, incl AvaSoft-Basic, USB cable and PS-12V/1.0A power supply. Specify grating, wavelength range and options	1.995,00
19	AvaSpec-128-USB2	Fiber Optic Spectrometer, 45 mm Avabench, 128 pixel PDA detector, USB powered high speed USB2 interface, incl AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.095,00
21	AvaSpec-256	Fiber Optic Spectrometer, 45 mm Avabench, 256 pixel CMOS detector, USB1.1/RS-232 interface, incl AvaSoft-Basic, USB cable and PS-12V/1.0A power supply. Specify grating, wavelength range and options	2.390,00
21	AvaSpec-256-USB2	Fiber Optic Spectrometer, 45 mm Avabench, 256 pixel CMOS detector, USB powered high speed USB2 interface, incl AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.490,00
23	AvaSpec-1024	Fiber Optic Spectrometer, 75 mm Avabench, 1024 pixel CMOS detector, USB1.1/RS-232 interface, incl AvaSoft-Basic, USB cable and PS-12V/1.0A power supply. Specify grating, wavelength range and options	3.190,00
23	AvaSpec-1024-USB2	Fiber Optic Spectrometer, 75 mm Avabench, 1024 pixel CMOS detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	3.290,00
31	AvaSpec-ULS1024-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 1024 pixel CMOS detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	3.490,00
25	AvaSpec-2048	Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector, USB1.1/RS-232 interface, incl AvaSoft-Basic, USB cable and PS-12V/1.0A power supply. Specify grating, wavelength range and options	2.190,00
25	AvaSpec-2048-USB2	Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.290,00
31	AvaSpec-ULS2048-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.490,00
30	AvaSpec-2048L-USB2	Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel 14x200µm CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.490,00
31	AvaSpec-ULS2048L-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel 14x200µm CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.690,00
27	AvaSpec-3648-USB2	Fiber Optic Spectrometer, 75 mm Avabench, 3648 pixel CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.490,00
31	AvaSpec-ULS3648-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 3648 pixel CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	2.690,00
29	AvaSpec-2048x14-USB2	Fiber Optic Spectrometer, 75 mm Avabench, 2048x14 pixel back illum CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interf cable, specify grating, wavelength range and options	3.950,00
31	AvaSpec-ULS2048x14-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048x14 pixel back illum CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interf cable, specify grating, wavelength range and options	4.150,00

page	AVASPEC NIRLINE SPECTROMETERS		
33	AvaSpec-NIR256-1.7	Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-1700nm, OSF-850/1000, specify NIR grating, wavelength range and slit	8.950,00
new	AvaSpec-NIR256-1.7TEC	Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2 stage TE cooling, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-1700nm, OSF-850/1000, specify NIR grating, wavelength range and slit	10.950,00
new	AvaSpec-NIR512-1.7TEC	Fiber Optic Spectrometer, 50 mm Avabench, 512 pixel InGaAs detector with 2 stage TE cooling, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-1700nm, OSF-850/1000, specify NIR grating, wavelength range and slit	12.950,00
35	AvaSpec-NIR256-2.0TEC	Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2stage TEC, high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2000nm, OSF-1000, specify NIR grating, wavelength range and slit	18.450,00
35	AvaSpec-NIR256-2.2TEC	Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2stage TEC, high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2200nm, OSF-1000, specify NIR grating, wavelength range and slit	18.950,00
new	AvaSpec-NIR512-2.2TEC*	Fiber Optic Spectrometer, 50 mm Avabench, 512 pixel InGaAs detector with 2 stage TE cooling, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2200nm, OSF-1000, specify NIR grating, wavelength range and slit	20.950,00
35	AvaSpec-NIR256-2.5TEC	Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2stage TEC, high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2500nm, OSF-1000, specify NIR grating, wavelength range and slit	19.450,00

* available later in 2011

DUAL CHANNEL SPECTROMETERS USB2 PLATFORM			
36	AvaSpec-128-2-USB2	Dual Channel Fiber Optic Spectrometer, 45 mm Avabench, 128 pixel PDA detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	3.380,00
36	AvaSpec-256-2-USB2	Dual Channel Fiber Optic Spectrometer, 45 mm Avabench, 256 pixel CMOS detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	3.880,00
36	AvaSpec-1024-2-USB2	Dual Channel Fiber Optic Spectrometer, 75 mm Avabench, 1024 pixel CMOS detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	5.380,00
36	AvaSpec-2048-2-USB2	Dual Channel Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	3.780,00
new	AvaSpec-ULS2048-2-USB2	Dual Channel Ultra-low straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	3.980,00
36	AvaSpec-2048L-2-USB2	Dual Channel Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel 14x200µm CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	4.180,00
new	AvaSpec-ULS2048L-2-USB2	Dual Channel Ultra-low straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel 14x200µm CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	4.380,00
36	AvaSpec-3648-2-USB2	Dual Channel Fiber Optic Spectrometer, 75 mm Avabench, 3648 pixel CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	4.180,00
new	AvaSpec-ULS3648-2-USB2	Dual Channel Ultra-low straylight Fiber Optic Spectrometer, 75 mm Avabench, 3648 pixel CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	4.380,00
36	AvaSpec-2048x14-2-USB2	Dual Channel Fiber Optic Spectrometer, 75 mm Avabench, 2048x14 pixel back illum CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	7.900,00
new	AvaSpec-ULS2048x16-2-USB2	Dual Channel Ultra-low straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048x16 pixel back illum CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	8.100,00
new	AvaSpec-ULS2048x64-2-USB2	Dual Channel Ultra-low straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048x64 pixel back illum CCD detector, 2 x USB powered high speed USB2 interface, incl AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	8.700,00

MULTICHANNEL SPECTROMETERS USB2 PLATFORM			
37	AVS-DESKTOP-USB2	Desktop for USB2 platform multichannel AvaSpec, incl. channel synchronization, USB2-hub, one DB26-IO connector and 100-240VAC power supply, supports max 4 rackmount unit spectrometer channels.	995,00
37	AVS-RACKMOUNT-USB2	19" Rackmount for USB2 platform multichannel AvaSpec, incl. channel synchronization, USB2-hub, one DB26-IO connector and 100-240VAC power supply, supports max 10 rackmount unit spectrometer channels.	1.195,00
37	AvaSpec-128-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 128 pixel PDA detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	1.690,00
37	AvaSpec-256-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 256 pixel CMOS detector, self powered high speed USB2 interface, incl AvaSoft-Basic, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	1.990,00
37	AvaSpec-1024-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 1024 pixel CMOS detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.690,00
37	AvaSpec-ULS1024-USB2-RM	Ultra Low Straylight Rackmount Unit Fiber Optic Spectrometer, 1024 pixel CMOS detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.890,00
37	AvaSpec-2048-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 2048 pixel CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	1.890,00
37	AvaSpec-ULS2048-USB2-RM	Ultra Low Straylight Rackmount Unit Fiber Optic Spectrometer, 2048 pixel CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.090,00
37	AvaSpec-2048L-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 2048 pixel 14x200µm CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.090,00
37	AvaSpec-ULS2048L-USB2-RM	Ultra Low Straylight Rackmount Unit Fiber Optic Spectrometer, 2048 pixel 14x200µm CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.290,00
37	AvaSpec-3648-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 3648 pixel CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.090,00
37	AvaSpec-ULS3648-USB2-RM	Ultra Low Straylight Rackmount Unit Fiber Optic Spectrometer, 3648 pixel CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	2.290,00
37	AvaSpec-2048x14-USB2-RM	Rackmount Unit Fiber Optic Spectrometer, 2048x14 pixel back illum CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	3.450,00
new	AvaSpec-ULS2048x16-USB2-RM	Ultra Low Straylight Rackmount Unit Fiber Optic Spectrometer, 2048x16 pixel back illum CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	3.650,00
new	AvaSpec-ULS2048x64-USB2-RM	Ultra Low Straylight Rackmount Unit Fiber Optic Spectrometer, 2048x64 pixel back illum CCD detector, self powered high speed USB2 interface, incl. AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. Desktop/Rackmount needs to be ordered separately	3.950,00
37	AvaSpec-NIR256-1.7-RM	Rackmounted Unit Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-1700nm, OSF-850/1000, specify NIR grating, wavelength range and slit	8.950,00
new	AvaSpec-NIR256-1.7TEC-RM	Rackmounted Unit Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2 stage TEC, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-1700nm, OSF-850/1000, specify NIR grating, wavelength range and slit	10.950,00
new	AvaSpec-NIR512-1.7TEC-RM	Rackmounted Unit Fiber Optic Spectrometer, 50 mm Avabench, 512 pixel InGaAs detector with 2 stage TEC, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-1700nm, OSF-850/1000, specify NIR grating, wavelength range and slit	12.950,00

MULTICHANNEL SPECTROMETERS USB2 PLATFORM			
37	AvaSpec-NIR256-2.2TEC-RM	Rackmounted Unit Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2stage TEC, high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2200nm, OSF-1000, specify NIR grating, wavelength range and slit	18.950,00
new	AvaSpec-NIR512-2.2TEC-RM	Rackmounted Unit Fiber Optic Spectrometer, 50 mm Avabench, 512 pixel InGaAs detector with 2stage TEC, high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2200nm, OSF-1000, specify NIR grating, wavelength range and slit	20.950,00
37	AvaSpec-NIR256-2.5TEC-RM	Rackmounted Unit Fiber Optic Spectrometer, 50 mm Avabench, 256 pixel InGaAs detector with 2stage TEC, high speed USB2 interface, incl. AvaSoft-Basic, USB interface cable, 1000-2500nm, OSF-1000, specify NIR grating, wavelength range and slit	19.450,00
	CONN-DB26-RM	Extra DB26-IO connector output for Desktop/Rackmount for USB2 platform multichannel AvaSpec	195,00

page	PRECONFIGURED AND SPECIAL SPECTROMETERS		
	AvaSpec-EDU-VIS	Educational Fiber Optic VIS spectrometer, 2048 pixels, grating VB(350-850nm), no slit, USB2 interface	999,00
	AvaSpec-EDU-UV/VIS	Educational Fiber Optic UV/VIS spectrometer, 2048 pixels, grating UA(200-850nm), DUV400, no slit, USB2 interface	1.299,00
38	AvaSpec-2048-USB2-UA-50	Fiber Optic UV/VIS/NIR spectrometer, 2048 pixels, grating UA(200-1100nm), slit-50, DUV400, OSC-UA, DCL-UV/VIS, USB2 interface, incl. AvaSoft-full, USB interface cable	2.468,00
38	AvaSpec-3648-USB2-UA-25	Fiber Optic UV/VIS/NIR spectrometer, 3648 pixel CCD detector, Slit 25, DUV3648, OSC-UA, USB powered USB2 high speed interface. including Avasoft-Full.	2.524,00
38	AvaSpec-2048-USB2-VA-50	Fiber Optic VIS/NIR spectrometer, 2048 pixels, grating VA(360-1100nm), slit-50, OSC, DCL-UV/VIS, USB2 interface, incl. AvaSoft-full, USB interface cable	2.240,00
38	AvaSpec-2048-USB2-VA-200	Fiber Optic VIS/NIR spectrometer, 2048 pixels, grating VA(360-1100nm), slit-200, OSC, DCL-UV/VIS, USB2 interface, incl. AvaSoft-full, USB interface cable	2.240,00
39	AvaSpec-2048TEC	Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel TE cooled CCD detector, USB1.1/RS-232 interface, incl AvaSoft-Basic, USB cable in desktop housing. Specify grating, wavelength range and options.	3.790,00
39	AvaSpec-2048TEC-USB2	Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel TE cooled and regulated CCD detector, USB2 high speed interface, incl AvaSoft-Basic, USB cable in desktop housing. Specify grating, wavelength range and options.	4.485,00
39	AvaSpec-3648TEC-USB2	Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Avabench, 3648 pixel TE cooled and regulated CCD detector, USB2 high speed interface, incl AvaSoft-Basic, USB cable in desktop housing. Specify grating, wavelength range and options.	4.685,00
	AvaSpec-2048TEC-2	Dual channel Thermo-Electric Cooled Fiber Optic Spectrometer, 2 * 75 mm Avabench, 2048 pixel TE cooled CCD detector, USB1.1/RS-232 interface, incl AvaSoft-Basic, USB cable in desktop housing. For 2 channels specify grating, wavelength range and options.	5.585,00
	AvaSpec-2048TEC-USB2-2	Dual channel Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel TE cooled and regulated CCD detector, USB2 high speed interface, incl AvaSoft-Basic, USB cable in desktop housing. Specify grating, wavelength range and options	7.285,00
new	AvaSpec-350F-USB2	Ultra fast Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector (350 pixel used), USB2 powered high speed USB2 interface, incl. USB interface cable. Specify grating, wavelength range and options	2.490,00
new	AvaSpec-950F-USB2	Ultra fast Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector (950 pixel used), USB2 powered high speed USB2 interface, incl. USB interface cable. Specify grating, wavelength range and options	2.490,00
new	AvaSpec-1350F-USB2	Ultra fast Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector (1350 pixel used), USB2 powered high speed USB2 interface, incl. USB interface cable. Specify grating, wavelength range and options	2.490,00
new	AvaSpec-1650F-USB2	Ultra fast Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector (1650 pixel used), USB2 powered high speed USB2 interface, incl. USB interface cable. Specify grating, wavelength range and options	2.490,00

AVASPEC SENSLINE			
new	AvaSpec-ULS2048x16-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048x16 pixel back illum CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interf cable, specify grating, wavelength range and options	4.150,00
new	AvaSpec-ULS2048x64-USB2	Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048x64 pixel back illum CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interf cable, specify grating, wavelength range and options	4.450,00
new	AvaSpec-HS1024x58TEC-USB2*	High Sensitivity Fiber Optic Spectrometer, VanNorden Optical bench design, 1024x58 pixel back illum TE cooled CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interf cable, specify grating, wavelength range and options	9.500,00
new	AvaSpec-HS1024x122TEC-USB2*	High Sensitivity Fiber Optic Spectrometer, VanNorden Optical bench design, 1024x122 pixel back illum TE cooled CCD detector, USB powered high speed USB2 interface, incl. AvaSoft-Basic, USB interf cable, specify grating, wavelength range and options	11.500,00
new	AvaSpec-ULS2048TEC-USB2*	Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Ultra-low straylight Avabench, 2048 pixel 3 stage-TE cooled and regulated CCD detector, USB2 high speed interface, incl AvaSoft-Basic, USB cable in desktop housing. Specify grating, wavelength range and options.	4.950,00
new	AvaSpec-ULS3648TEC-USB2*	Thermo-Electric Cooled Fiber Optic Spectrometer, 75 mm Ultra-low straylight Avabench, 3648 pixel 3-stage TE cooled and regulated CCD detector, USB2 high speed interface, incl AvaSoft-Basic, USB cable in desktop housing. Specify grating, wavelength range and options.	5.150,00

* available later in 2011

SPECTROMETER OPTIONS				
	page			
		-SPU	incl. switch for USB powered USB1, or external power for RS232	free
		-SPU2	incl. switch for USB powered USB2 or external power for RS232	free
41		-SPU2-BT	Bluetooth interface for USB2 platform only, including antenna	390,00
		SD2G	Internal 2 GB SD card for on board data saving with AS5216-DLL, for USB2 platform only	190,00
		DUV	>150 nm Deep UV detector coating, only for AvaSpec-2048/3648 <350 nm	245,00
		DCL-VIS	Detector collection lens to enhance sensitivity, only for AvaSpec-128	95,00
		DCL-UV/VIS	Detector collection lens for AvaSpec-2048/3648 to enhance sensitivity, Quartz, 200-1100 nm	130,00
		DCL-UV/VIS-200	Detector collection lens for AvaSpec-2048L/3648/2048x14 for >200µm fibers, to enhance sensitivity, Quartz, 200-1100nm.	140,00
		Slit-XX	Slit size, please specify XX = 10, 25, 50, 100, 200, 500 µm	130,00
		OSF-YYY	Order sorting filter for reduction of second order effects (1mm <2%), please specify YY= 305, 385, 475, 515, 550, 600 nm	45,00
16		OSF-YYY-3	Order sorting filter for reduction of second order effects (filter 3mm <0.01%), please specify YY= 305, 385, 475, 515, 550, 600 nm, not for ULS spectrometers	45,00
16		OSC	Order sorting coating with 590nm long pass filter for VA, BB and VB gratings in AvaSpec-1024/2048/3648	150,00
16		OSC-UA	Order sorting coating with 350 and 590nm longpass filter for UA gratings in AvaSpec-1024/2048/3648	190,00
16		OSC-UB	Order sorting coating with 350 and 590nm longpass filter for UB and BB gratings starting <350nm in AvaSpec-1024/2048/3648	190,00
16		OSC-NIR	Order sorting coating with 1400nm longpass filter for NIR100-2.5 and NIR150-2.0 gratings in AvaSpec-NIR256-2.2/2.5	0,00
		Purge	set of 4 mm Gasfittings for AvaSpec purging in DUV (<200nm) applications	199,00
new		Purge ULS	set of 4 mm Gasfittings for AvaSpec-ULS purging in DUV (<200nm) applications	299,00
		-FCPC	FCPC entrance connector on AvaSpec instead of SMA	100,00

page	SPECTROMETER ACCESSORIES		
46	IC-DB9-2	Interface cable AvaSpec to RS-232, 9 pole, 2m	34,00
46	IC-DB15-2	Interface cable AvaSpec to AvaLight-S with shutter for auto save dark/ lamp off, AvaLight-XE control, 2m	34,00
46	IC-DB26-2	Interface cable AvaSpec-USB2 platform to DB15 for AvaLight-S with shutter for auto save dark/ lamp off, AvaLight-XE control, 2m	99,00
46	IC-DB26/DB9-2	Interface cable AvaSpec-USB2 platform DB26 male to RS232 DB9 female cable, 2m	99,00
46	IC-DB26/DB9/DB15-2	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, 2m	139,00
46	IC-Extrig-2	Interface cable AvaSpec-USB1 to External trigger pushbutton, 2m	99,00
46	IC-Extrig-USB2	Interface cable AvaSpec-USB2 to External trigger pushbutton, 2m	99,00
46	IC-DB26-EXTRIG-BNC-2	Interface cable AvaSpec-USB2 platform to BNC plug External trigger, 2 m	99,00
46	IC-DB15-Extrig-2	Interface Y-cable AvaSpec to External trigger pushbutton and AvaLight-S with shutter, 2m	139,00
46	IC-DB26-Extrig-USB2	Interface Y-cable AvaSpec-USB2 to External trigger pushbutton and AvaLight-S with shutter, 2m	139,00
46	IC-DB15-FOS2-2	Interface Y-cable AvaSpec-USB1 platform to FOS-2 and AvaLight-S with shutter, 2m	149,00
46	IC-DB26-FOS2-2	Interface Y-cable AvaSpec-USB2 platform to FOS-2 and AvaLight-S with shutter, 2m	149,00
46	IC-USB-2	Interface cable AvaSpec to USB port on PC, 2m	18,00
46	IC-USB2-2	USB2 Interface cable AvaSpec-USB2 to USB port on PC, 2m	29,00
46	IC-COAX-SMB-0,25	Synchronization coax cable with 2 SMB connectors 0.25m for Avaspec USB2 platform	50,00
47	NL-calibration	Non-linearity calibration service (per channel)	100,00
47	Spectral-cal-service	Spectral calibration service for an AvaSpec, incl. calibration sheet	150,00
	AvaSpec-upgrade	AvaSpec (< 3 years old) upgrade (per channel), change in grating, options (add price of additional options)	350,00
	AvaSpec-SPU upgrade	Spectrometer upgrade, change to Self Powered USB1, possible for all existing AvaSpec-102/256/1024/2048 1&2 channels	150,00
	AvaSpec-TEC upgrade	Spectrometer upgrade, change AvaSpec-2048/3648 to AvaSpec-2048/3648TEC, incl desktop housing	1.950,00
	AvaSpec Product Case	Product case for Spectrometers, fiberoptics and light sources	145,00

page	SPECTROMETER SYSTEMS		
	Raman System		
49	Ava-Raman-785-USB2	Raman System, includes 500 mW 785 nm diode laser, AvaSpec-2048-USB2, grating IB (100-2700cm ⁻¹), slit-50, DCL-UV/VIS, AvaSoft-Raman software and 785nm laser safety goggles.	11.900,00
49	Ava-Raman-785TEC-USB2	Raman System, includes 500 mW 785 nm, TE-controlled diode laser, AvaSpec-2048TEC-USB2, grating SI (100-3500cm ⁻¹), slit-25, DCL-UV/VIS, AvaSoft-Raman and 785nm laser safety goggles.software	14.500,00
49	Ava-Raman-532-USB2	Raman System, includes 50 mW 532 nm diode laser, AvaSpec-2048-USB2, grating NC (100-5400cm ⁻¹), slit-25, DCL-UV/VIS, AvaSoft-Raman software and 532nm laser safety goggles.	11.900,00
49	Ava-Raman-532TEC-USB2	Raman System, includes 50 mW 532 nm diode laser, AvaSpec-2048TEC-USB2, grating NC (100-5400cm ⁻¹), slit-25, DCL-UV/VIS, AvaSoft-Raman software and 532nm laser safety goggles.	14.500,00
49	AvaRaman-PRB-XXX	3/8" Standard low cost fiber optic Raman focusing probe, specify XXX=Excitation wavelength	2.490,00
49	AvaRaman-PRB-FP-XXX	1/2" SS focusing probe with 90 µm excitation and 200 µm read fiber, specify XXX=Excitation wavelength	4.490,00
49	AvaRaman-PRB-FIP-XXX	5/8" SS focusing probe for in-situ measurements with 100 µm excitation and 200 µm read fiber, specify XXX=Excitation wavelength	6.950,00
49	AvaRaman-PRB-FC-XXX	3/8" SS focusing probe for in-situ measurements with 100 µm excitation and 200 µm read fiber (500 degr. C and 3000psi), specify XXX=Excitation wavelength	7.990,00
49	Ava-Raman-SH-3/8"	Rugged sample holder for secure positioning of 3/8" Raman probes	790,00
49	Ava-Raman-SH-1/2"	Rugged sample holder for secure positioning of 1/2" Raman probes	790,00
49	AvaRaman-Calibrationtile	PTFE white tile in holder for 3/8" Raman probe	290,00
	LIBS System		
52	AvaLIBS	LIBS System and components, pricing available on request, contact our sales staff	on request

page	SOFTWARE		
54	AvaSoft-Basic	Basic Spectrometer software for Windows95/98/2000/NT/ME/XP/Vista for the AvaSpec	free
55	AvaSoft-Full	Spectrometer software version 7 for Windows95/98/2000/NT/ME/XP/Vista for the AvaSpec	199,00
55	AvaSoft-All	Spectrometer software version 7 including applications Color, Irradiance, Chemometrics, Excel and Process Control for Windows95/98/2000/NT/ME/XP/Vista for the AvaSpec	399,00
56	AvaSoft-COL	Color application add-on software, to be ordered with AvaSoft-full	99,00
57	AvaSoft-IRRAD	Irradiance application add-on software, to be ordered with AvaSoft-full	99,00
58	AvaSoft-CHEM	Chemometry application add-on software for concentration measurements, to be ordered with AvaSoft-FULL	99,00
59	AvaSoft-XLS	Export online to Excel add-on software, to be ordered with AvaSoft-full	99,00
60	AvaSoft-PROC	Process control application add-on software, to be ordered with AvaSoft-full. Controls 8 on-board TTL output signals	99,00
60	AvaSoft-FOM	Fiber Optic Multiplexer integration stand-alone Software	399,00
61	AvaSoft-Raman	Raman stand-alone software for the AvaRaman system	399,00
61	AvaSoft-Thinfil	Thin film stand-alone software for the AvaThinfil system	995,00
62	Panorama-Pro	Spectroscopic Mathematic Dataprocessing Software package, 2D/3D display	1.500,00
62	Panorama-Search	Add-on to Panorama Pro, incl library module & spectrum search module	750,00
62	Panorama-Quantify	Add-on to Panorama Pro, incl Multivariate Data Analysis with PLS, MLR	950,00
62	Panorama-Raman	Add-on to Panorama Pro, incl Raman Interpretation and functional group assignment	950,00
62	Panorama-Security	Add-on to Panorama Pro, full 21 CFR part 11 compliance. Ideal for FDA/GXP regulated environments	950,00
63	AvaLIBS-Specline-A	Spectroscopy software for peak finding and identifying spectral lines, complete version with database for atoms and ions according to list	on request
63	AvaLIBS-Specline-AM	Spectroscopy software for peak finding and identifying spectral lines and molecular bands, complete version with data base for atoms, molecules and ions	on request
63	AvaLIBS-Specline-AMS	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
64	TFProbe	Thinfil multilayer measurement software	3.570,00
66	AS-161-DLL	Interface DLL package for AvaSpec-USB1 platform for Windows 95/98/2000/ME/NT/XP/Vista, incl. sample programs	399,00
66	AS-5216-DLL	Interface 32- and 64-bit DLL package for AvaSpec-USB2 platform for Windows 95/98/2000/ ME/NT/XP/Vista/7, incl. sample programs	399,00
66	FOM-DLL	Interface DLL driver package for FOM Fiber Optic Multiplexer for Windows95/98/2000 -ME/NT/XP/Vista, including sample programs for C++, Delphi and Labview	199,00
66	COLOR-DLL	32-bit DLL for Windows 95/98/2000/ME/NT/XP/Vista to calculate L*,a*,b* etc color coefficients	199,00
66	IRRAD-DLL	32-bit DLL for Windows 95/98/2000/ME/NT/XP/Vista for Irradiance/LED applications	199,00

page	LIGHT SOURCES		
69	AvaLight-DHc	Compact Deuterium/Halogen light source 200-2500nm with TTL-shutter, needs extra PS-12V/1.0A	1.350,00
69	AvaLight-DHc-RM	Compact Rackmount Deuterium/Halogen light source 200-2500 nm with TTL-shutter	1.390,00
69	AvaLight-DHc-B	Compact Deuterium/Halogen replacement bulb	395,00
71	AvaLight-HAL	10W Tungsten Halogen Lamp, fan-cooled, needs extra PS-24V/1.25A power supply	490,00
71	AvaLight-HAL-S	10W Tungsten Halogen Lamp, fan-cooled, incl. TTL shutter, needs extra PS-24V/1.25A	690,00
71	AvaLight-HAL-S-IND	10W Tungsten Halogen Lamp, fan-cooled, incl. TTL shutter, incl industrial connector and PS-24V/1.25A, Europlug standard, otherwise please specify -UK, -USA, -AUS	795,00
71	AvaLight-HAL-S-RM	Rack mounted version of the 10W Tungsten Halogen Lamp, fan-cooled, incl. TTL shutter	790,00
71	AvaLight-HAL-B	10W, 4000 hrs. Tungsten Halogen Replacement bulb for AvaLight-HAL, AvaLight-HAL-S	15,00
71	HAL-S-IND-UPGRADE	Upgrade from HAL-S to HAL-S-IND, incl. industrial connector please return with PS-24V/1.25A	95,00
71	GL-XXX-Y	External Glass Filter 50x50xY mm for Lamp or Filter holder (see table page 71)	49,00
71	GL-BG28-Y	External Glass Filter BG28 50x50xY mm for Lamp or Filter holder	129,00
73	AvaLight-D-S	Deuterium light source, 215-400 nm, incl. TTL shutter, -SR fibers needed	2.095,00
73	AvaLight-DH-S	Deuterium-Halogen light source, 215-2500 nm, incl. TTL shutter, -SR fibers needed	2.195,00
73	AvaLight-D-S-DUV	Deep UV deuterium light source, 190-400 nm, incl. TTL shutter, -SR fibers needed	2.195,00
73	AvaLight-DH-S-DUV	Deep UV deuterium-halogen light source, 190-2500 nm, incl. TTL shutter, -SR fibers needed	2.295,00
73	AvaLight-DH-S-DUV-LL	Deep UV deuterium-halogen light source, long-life 2000 hrs, 190-2500 nm, incl. TTL shutter, -SR fibers needed	2.395,00
73	AvaLight-D-B	Replacement deuterium bulb for AvaLight-D/AvaLight-DH light source	495,00
73	AvaLight-D-B-DUV	Replacement deep UV deuterium bulb for AvaLight-D/AvaLight DH light source	595,00
73	AvaLight-D-B-DUV-LL	Long life 2000 hrs, replacement deep UV deuterium bulb for AvaLight-D/AvaLight DH light source	695,00
73	AvaLight-DH-B	Replacement 5W halogen bulb for AvaLight-DH light source and AvaSphere-50-LS-HAL	15,00
74	AvaLight-D-S-BAL	Balanced Deuterium light source, 215-450 nm, incl. TTL shutter, -SR fibers needed	2.495,00
74	AvaLight-DH-S-BAL	Balanced Deuterium-Halogen light source, 215-2500 nm, incl. TTL shutter, -SR fibers needed	2.595,00
74	DH-S-BAL upgrade	Upgrade existing AvaLight-DH-S to an AvaLight-DH-S-BAL Balanced Deuterium-Halogen light source, 215-2000 nm	995,00
75	Avalight-XE	Xenon Light Source (200-1000nm), needs interface cable and extra PS-12V/1.0A power supply	995,00
75	Avalight-XE-DUV	Xenon Light Source for DUV (160-1000nm), needs interface cable and extra PS-12V/1.0A power supply	1.195,00
75	Avalight-XE-RM	Rack mounted Xenon Light Source (200-1000nm), needs interface cable and extra PS-12V/1.0A power supply	995,00
75	Avalight-XE-B	Spare bulb for the Avalight-XE (200-1000nm)	375,00
75	Avalight-XE-B-DUV	Spare bulb for the Avalight-XE-DUV (160-1000nm)	550,00
77	AvaLight-HAL-CAL	NIST traceable Halogen Lamp with CC-VIS/NIR diffuser, incl. calibrated PS-24V/1.25A	870,00
77	AvaLight-HAL-CAL-ISP30	NIST traceable Halogen Lamp for use with AvaSphere-30-IRRAD, incl. calibrated PS-24V/1.25A and special sphere holder bottomplate BOTTOM PLATE-30-CAL	870,00
77	AvaLight-HAL-CAL-ISP50	NIST traceable Halogen Lamp for use with AvaSphere-50-IRRAD, incl. calibrated PS-24V/1.25A and special sphere holder bottomplate BOTTOM PLATE-50-CAL	870,00
77	AvaLight-HAL-CAL-ISP80	NIST traceable Halogen Lamp for use with AvaSphere-80-IRRAD, incl. calibrated PS-24V/1.25A and special sphere holder bottomplate BOTTOM PLATE-80-CAL	990,00
77	AvaSphere-50-LS-HAL-CAL	NIST traceable radiance calibration source, 10mm and SMA adapter calibrated, incl PS-24V/1.25A	2.190,00
77	HL-Recal	AvaLight-HAL-CAL (re)calibration service	195,00
77	HL-Recal-NIR	AvaLight-HAL-CAL (re)calibration service for 1100-2500nm	250,00
77	AvaLight-D-CAL	NIST traceable UV Deuterium Lamp with CC-UV/VIS diffuser, -SR fibers recommended	2.195,00
77	AvaLight-DH-CAL	NIST traceable UV/VIS Deuterium/Halogen Lamp with CC-UV/VIS diffuser, -SR fibers recommended	2.495,00
77	AvaLight-DH-BAL-CAL	NIST traceable balanced UV/VIS Deuterium/Halogen Lamp with CC-UV/VIS diffuser, -SR fibers recommended	2.995,00
77	AvaLight-DH-CAL-ISP30	NIST traceable UV/VIS Deuterium/Halogen Lamp for use with AvaSphere-30-IRRAD, incl. special sphere holder bottomplate, -SR fibers recommended	2.495,00
77	AvaLight-DH-CAL-ISP50	NIST traceable UV/VIS Deuterium/Halogen Lamp for use with AvaSphere-50-IRRAD, , incl. special sphere holder bottomplate, -SR fibers recommended	2.495,00
77	AvaLight-DH-CAL-ISP80	NIST traceable UV/VIS Deuterium/Halogen Lamp for use with AvaSphere-80-IRRAD, , incl. special sphere holder bottomplate, -SR fibers recommended	2.495,00
77	DH-Recal	AvaLight-DH-CAL (re)calibration service	390,00

page	LIGHT SOURCES		
78	AvaLight-CAL	Mercury Argon Calibration source , 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	390,00
78	AvaLight-CAL-NEON	Neon Calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	390,00
78	AvaLight-CAL-AR	Argon Calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	390,00
78	AvaLight-CAL-RM	Rack mounted version of Mercury-Argon Calibration source, SMA	460,00
78	AvaLight-CAL-B	Replacement bulb, 5000 hrs, Mercury-Argon	139,00
78	AvaLight-CAL-NEON-B	Replacement bulb, 5000 hrs, Neon	139,00
78	AvaLight-CAL-AR-B	Replacement bulb, 5000 hrs, Argon	149,00
new	AvaLight-CAL-ZINC	ZINC Calibration source , 1000 hrs, including power supply, SMA	1.495,00
new	AvaLight-CAL-CAD	Cadmium Calibration source , 1000 hrs, including power supply, SMA	1.495,00
new	AvaLight-CAL-ZINC-B	ZINC spare bulb, 1000 hrs	595,00
new	AvaLight-CAL-CAD-B	Cadmium spare bulb, 1000 hrs	595,00
79	AvaLight-LED-XXX	Miniature LED source specify wavelength XXX=380, 400, 470, 590 nm, other wavelengths available on request, needs extra PS-12V/1.0A	490,00
79	AvaLight-LED-XXX-RM	Rackmount version of Miniature LED source specify wavelength XXX=380, 400, 475, 590 nm	490,00
79	AvaLight-LED-CON	LED lightsource control unit with electrical connector to LED, needs interface cable and extra PS-12V/1.0A	390,00
79	CUV-LED-XXX	LED holder for cuvette, specify LED wavelength	190,00

FIBER OPTIC CABLES			
		specify fiber type xx = UV for UV/VIS (200-800 nm) ; xx = IR for VIS/NIR(350-2000 nm)	
89	FC-IR008-2	Fiber cable, 8 µm fiber , 2 m. length, SMA Terminations	99,00
89	FC-UV050-2	Fiber cable, UV/VIS, 50 µm fiber, 2 m. length, SMA Terminations	149,00
89	FC-IR050-2	Fiber cable, VIS/NIR, 50 µm fiber, 2 m. length, SMA Terminations	99,00
89	FC-xx100-2	Fiber cable, 100 µm fiber, 2 m. length, SMA Terminations	99,00
89	FC-xx200-2	Fiber cable, 200 µm fiber, 2 m. length, SMA Terminations	99,00
89	FC-xx400-2	Fiber cable, 400 µm fiber, 2 m. length, SMA Terminations	119,00
89	FC-xx600-2	Fiber cable, 600 µm fiber, 2 m. length, SMA Terminations	169,00
89	FC-xx800-2	Fiber cable, 800 µm fiber, 2 m. length, SMA Terminations	269,00
89	FC-xx1000-2	Fiber cable,1000 µm fiber, 2 m. length, SMA Terminations	369,00
	FC-UV400-1-SR-FIA	Fiber cable, 400 µm fiber, UV/VIS, SR, 1 m. length, 1 SMA and 1,5mm ferrule for FIA-Z-CELL	245,00
89	FCB-UV050-2	Bifurcated fiber cable, 50 µm fibers, UV/VIS, 2 m. length, SMA Terminations	345,00
89	FCB-IR050-2	Bifurcated fiber cable, 50 µm fibers, VIS/NIR, 2 m. length, SMA Terminations	245,00
89	FCB-xx100-2	Bifurcated fiber cable, 100 µm fibers, 2 m. length, SMA Terminations	245,00
89	FCB-xx200-2	Bifurcated fiber cable, 200 µm fibers, 2 m. length, SMA Terminations	245,00
89	FCB-xx400-2	Bifurcated fiber cable, 400 µm fibers, 2 m. length, SMA Terminations	275,00
89	FCB-xx600-2	Bifurcated fiber cable, 600 µm fibers, 2 m. length, SMA Terminations	345,00
90	FC4-xx200-2	Four-furcated cable, 4x200 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	440,00
90	FC4-xx400-2	Four-furcated cable, 4x400 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	540,00
90	FC4-xx600-2	Four-furcated cable, 4x600 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	790,00
90	FC5-xx200-2	Five-furcated cable, 5x200 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	540,00
90	FC5-xx400-2	Five-furcated cable, 5x400 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	690,00
90	FC6-xx200-2	Six-furcated cable, 6x200 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	640,00
90	FC6-xx400-2	Six-furcated cable, 6x400 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	790,00
90	FC8-xx200-2	Eight-furcated cable, 8x200 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	840,00
90	FC8-xx400-2	Eight-furcated cable, 8x400 µm fibers , all legs SMA terminated, total 2m long, splitting point in the middle, specify xx=UV or IR or UV/IR	990,00
	FCRL-7xx100-2	Round to linear fiber cable, 7x 100 µm fibers, 2 m., SMA Terminations	290,00
	FCRL-4xx200-2	Round to linear fiber cable, 4x 200 µm fibers,2 m., SMA Terminations	290,00
new	-BX	Flexible Full interlocking stainless steel sheathing 6mm OD : Add per meter	19,00
85	-ME	Flexible Chrome plated brass sheathing 5mm OD : Add per meter	15,00
85	-MS	Flexible Metal sheathing with silicone cover, IP67 : Add per meter	45,00
86	-HT	High temperature (max 200 dgr.C) for all metall sheathing cables and probes	46,00
84	-SR (UV50)	Solarization resistant fiber for DUV applications, 50 µm only, add per m	9,00
84	-SR (UV100)	Solarization resistant fiber for DUV applications, 100 µm only, add per m	2,00
84	-SR (UV200)	Solarization resistant fiber for DUV applications, 200 µm only, add per m	6,00
84	-SR (UV400)	Solarization resistant fiber for DUV applications, 400 µm only, add per m	12,00
84	-SR (UV600)	Solarization resistant fiber for DUV applications, 600 µm only, add per m	24,00
84	-SR (UV800)	Solarization resistant fiber for DUV applications, 800 µm only, add per m	36,00
88	-ST	ST connector termination instead of standard SMA905, per connector extra	10,00

88	-FCPC	FC/PC connector termination instead of standard SMA905, per connector extra	42,00 Price (€)
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page	FIBER OPTIC PROBES		
91	FCR-7xx200-2-ME	Reflection Probe, 6 illumination, 1 read fiber, 200 µm fibers with flexible metal sheathing	395,00
91	FCR-7xx400-2-ME	Reflection Probe, 6 illumination, 1 read fiber, 400 µm fibers with flexible metal sheathing	595,00
92	FCR-19xx200-2-ME	Reflection probe, 17 illumination, 2 read fibers in separate legs, SMA, metal sheathing	695,00
91	FCR-90-OPTION	90° Reflection add-on reflector for use with all 1/4" reflection probes	195,00
91	FCR-COL-UV/VIS	Adjustable UV/VIS/NIR Collimating/focussing lens	195,00
new	FCR-7UV400C-2-ME-HTX	Reflection probe with 7x400µm UV/Vis fibers, 2 meters long, common part with 6,35x50mm Stainl.Steel ferrule, metal prot.sleeve and SMA connectors (HTX up to 500 degr., max 100 bar)	1.695,00
93	FCR-14xx200-2-REF-ME	Reflection Probe with Reference, 2 m. length, SMA Term, with flexible metal sheathing	795,00
94	FCR-7xx200-2-1,5x100	Reflection probe, 6+1 fibers, 1.5x100 mm tip, 2m long	445,00
94	FCR-7xx200-2-2,5x100	Reflection probe, 6+1 fibers, 2.5x100 mm tip, 2m long	445,00
	FCR-7UV100-2-1x25	Reflection probe for AFH-Ocular, 6+1 UV/VIS fibers, 1.0 x 25 mm tip, 2m long	421,00
95	FCR-7xx200-2-45-ME	Reflection Probe, 45 degr. window for liquids and powders with flexible metal sheathing	645,00
96	FCR-7xx200-2-45-IND	1/2" Reflection Probe, 45 degr. window for liquids and powders with flexible metal sheathing	895,00
96	FCR-TIP45	1/2" Replacement tip with 45 degr. window for liquids and powders	295,00
97	FCR-UV200/600-2-IND	1/2" Reflection Probe for fluorescence applications	1.095,00
97	FCR-FLTIP-IND	Fluorescence Reflector Accessory for 1/2" FCR-45-IND probes	425,00
98	FDP-UV-micro-yy-SR	1/16" Micro Dip probe, specify spacing yy (1, 2.5 or 5 mm) optical path = 2 * spacing, sol resistant fibers	974,00
99	FDP-2xx200-2-5-mini	1/8" Mini Dip probe, 5 mm spacing, 10 mm path length, specify XX= UV (UV/VIS) or IR (VIS/NIR), 2m	695,00
100	FDP-7xx200-2-yy	Transmission dip probe, specify tip spacing yy 1, 2.5 or 5 mm (optical path=2*yy) ,metal sheat.	795,00
100	FDP-TIP-yy	Replacement tip for dip probe, specify tip spacing:yy (1, 2.5 or 5 mm)	245,00
	FDP-14xx200-2-yy-REF-ME	Transmission dip probe with reference, specify tip spacing yy 1, 2.5 or 5 mm (optical path=2*yy)	1.095,00
101	FDP-7xx200-2-VAR	Transmission dip probe with variable tip length (0.25-10 mm (optical path=0.5-20 mm)	895,00
101	FDP-7xx200-2-VAR-PK	Transmission dip probe in PEEK with variable tip length (0.25-10 mm (optical path=0.5-20 mm)	1.195,00
	FDP-14xx200-2-VAR-REF-ME	Transmission dip probe with variable tip length with reference (0.25-10 mm (optical path=0.5-20 mm)	1.295,00
101	FDP-TIP-VAR	Replacement Stainless Steel tip for Transmission dip probe with variable tip length	295,00
101	FDP-TIP-VAR-PEEK	Replacement PEEK tip for Transmission dip probe with variable tip length	445,00

FIBER OPTIC ACCESSORIES			
103	COL-UV/VIS	Collimating lens for UV/VIS/NIR, incl. SMA adapter, adjustable focus	109,00
103	COL-UV/VIS-FCPC	Collimating lens for UV/VIS/NIR, incl. FC/PC adapter, adjustable focus	129,00
103	COL-90-UV/VIS	Right angle collimating lens for UV/VIS/NIR, incl. SMA conn.	299,00
103	COL-UV/VIS-25	Collimating lens 25 mm for UV/VIS/NIR, incl SMA adapter and adjustable focus	990,00
104	CC-UV/VIS	Cosine Corrector for UV/VIS with SMA coupling	139,00
104	CC-UV/VIS/NIR-5.0	Cosine Corrector with Radin diffusing material for UV/VIS/NIR, special 5.0 degrees aperture, SMA coupling.	1.250,00
104	CC-VIS/NIR	Cosine Corrector Radin for UV/VIS/NIR with SMA coupling	199,00
104	CC-UV/VIS/NIR-8MM	Cosine Corrector with Radin diffusing material for UV/VIS/NIR, 8mm active area, SMA	249,00
105	FC-VFT-xx50	Vacuum feedthrough for 50 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
105	FC-VFT-xx100	Vacuum feedthrough for 100 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
105	FC-VFT-xx200	Vacuum feedthrough for 200 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
105	FC-VFT-xx400	Vacuum feedthrough for 400 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
105	FC-VFT-xx600	Vacuum feedthrough for 600 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
105	FC-VFT-xx800	Vacuum feedthrough for 800 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
105	FC-VFT-xx1000	Vacuum feedthrough for 1000 µm fibers, incl. SMA adapter, needs 2 extra SMA interconnects	249,00
106	MMA1-UV/VIS-SMA	Mode mixer , 1 mm diameter, UV/VIS/NIR, SMA	199,00
106	MMA3-UV/VIS-SMA	Mode mixer , 3 mm diameter, UV/VIS/NIR, SMA	199,00
	AVS-MFA-SMA	Microscope/telescope fiber adapter SMA with C-mount thread	150,00
107	RPH-1	Reflection probe holder for straight or 45 degree measuring	79,00
107	AFH-15	Angled fiber probe holder for measuring under different angles, needs 1.5 mm ferrule fibers	249,00
107	FC-UV200-2-1.5x40	Fiber cable, 200µm UV/VIS fiber, 2m long, one end with SMA connector, other end with stainless steel ferrule, OD=1.5 mm x 40 mm length	183,00
107	AFH-Ocular	Angled fiber probe holder for precise measurements under 45 degrees, incl. ocular. Needs FCR-7UV100-2-1x25	495,00
107	FCR-7UV100-2-1x25	Reflection probe with 7x100µm UV/VIS fibers to 1x25 mm stainless steel ferrule, 2 meter long with PVC/Kevlar protection sleeve and 2 SMA connectors	421,00

Price (€)

FIBER OPTIC ACCESSORIES			
108	MWS-1	Multipurpose work stand with 1 rod 300mm long, 14mm diameter	295,00
108	MWS-2	Multipurpose work stand with 2 rods 300mm long, 14mm diameter	345,00
108	MWS-CLIP4	Fiber Optic Cable Clip with 4 channels	195,00
108	MWS-PBHLD-6.35	Probe holder for standard reflection probes	165,00
108	MWS-PBHLD-1.5	Probe holder 1.5mm ferrule terminated fibers	165,00
108	MWS-PBHLD-MULT	Multiple Probe holder	165,00
108	MWS-PBHLD-1.5-30	Angular Probe holder 1.5mm ferrule terminated fibers	195,00
108	MWS-AWD-15	SMA Fiber holder adjustable working distance 15mm	245,00
108	MWS-AWD-30	SMA Fiber holder adjustable working distance 30mm	245,00
108	MWS-SAPLC-10	Rod mounted sample platforms with 10 mm diameter aperture and Clip	195,00
110	ME-FI-SM-MM	SMA fiber interconnect, panel mountable	10,00
110	ME-FI-ST-MM	ST fiber interconnect, panel mountable	10,00
110	ME-FI-FCPC-MM	FC/PC fiber interconnect, panel mountable	29,00
110	ME-SM-BC	SMA to TO18 adapter	24,00
110	ME-SM-BC-S	SMA to TO5 adapter	19,00
110	ME-ST-BC	ST Bulkhead adapter	14,00
110	ME-FCPC-BC	FC/PC Bulkhead adapter	29,00

page	ACCESSORIES		
113	PS-12V/1.0A	Power supply 100-240VAC/12VDC, 1.0A, necessary for AvaLight-XE, AvaLight-DHc, AvaLight-LED, AvaLight-CAL. Europlug standard, otherwise please specify -UK, -US, -AUS	39,00
113	PS-24V/1.25A	Power supply 100-240VAC/24VDC, 1.25A, necessary for AvaLight-HAL. Europlug standard, otherwise please specify -UK, -US, -AUS	80,00
115	Battery pack-5+12V/13Ah	Battery pack 5 and 12VDC, 13Ah	795,00
115	Battery pack-5+12V/13Ah-RM	Battery pack 5 and 12VDC, 13Ah, Rackmounted version	795,00
115	Battery pack-12V/1.5Ah	Battery pack 12 VDC, 1500mAh	395,00
115	Battery pack-12V/1.5Ah-RM	Battery pack 12 VDC, 1500mAh, Rackmounted version	395,00
115	Battery pack-24V/3.2Ah	Battery pack 24 VDC, 3200mAh	695,00
115	Battery pack-24V/3.2Ah-RM	Battery pack 24 VDC, 3200mAh, Rackmounted version	695,00
115	Battery pack-charger 5V/2.5A	Charger for battery pack 5VDC, input 100-240 VAC, 2.5A, Europlug standard, otherwise please specify -UK, -US, -AUS	99,00
115	Battery pack-charger 1.0A	Charger for battery pack 12/24VDC, input 100-240 VAC, 1.0A, Europlug standard, otherwise please specify -UK, -US, -AUS	99,00
116	CUV-UV/VIS	Cuvette Holder, 10 mm path, includes 2 UV/VIS/NIR collimating lenses and cover	445,00
116	CUV-FL-UV/VIS	Cuvette Holder, 10 mm path, with fluorescence port, 2 UV/VIS/NIR lenses, 2 coated mirrors and cover	595,00
116	CUV-ALL-UV/VIS	Cuvette Holder, 10 mm path, 2 beams, 4 x UV/VIS/NIR collimating lenses and cover	795,00
116	CUV-FL-MIRROR	SiO ₂ coated aluminum mirror	70,00
116	CUV-10-2	Quartz Cuvette 10 mm, 2 windows, 3,5 ml	41,00
116	CUV-10-4	Quartz Cuvette 10 mm, 4 windows, 3,8 ml	95,00
117	CUV-UV/VIS-TC	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	3.470,00
117	CUV-TC-QCL-UV	AR coated fused silica collimating lens for temperature controlled cuvette holder	380,00
117	CUV-TC-QIL-UV	AR coated fused silica imaging lens for temperature controlled cuvette holder	590,00
117	CUV-TC-QMP	Spherical mirror plate with steering plate for CUV-UV/VIS-TC	220,00
117	CUV-TC-QFH	Filter holder for CUV-UV/VIS-TC	125,00
118	CUV-DHc/XE/LED	SMA screw-on 10 mm cuvette holder for AvaLight-DHc/XE/LED, incl. COL-UV/VIS lens and 2 mirrors	490,00
	CUV-DHc/XE/LED-DA	Direct attached cuvette holder incl. attenuator for AvaLight-DHc, AvaLight-XE and AvaLight-LED	990,00
118	CUV-DHS	Direct attachment 10 mm cuvette holder for AvaLight-DH(S), incl. COL-UV/VIS lens and 2 mirrors	490,00
118	CUV-HAL	Direct attachment 10 mm cuvette holder for AvaLight-HAL(S), incl. COL-UV/VIS lens and 2 mirrors	490,00
119	CUV-VAR-UV/VIS	Cuvette holder with variable path length 0-100 mm path, includes 2 COL-UV/VIS lenses	990,00
121	AvaSphere-30-IRRAD	Sphere 30 mm for light measurements (250-2500 nm), sample port 6 mm, 1 SMA port	990,00
121	AvaSphere-50-IRRAD	Sphere 50 mm for light measurements (250-2500 nm), sample port 10 mm, 1 SMA port	1.290,00
121	AvaSphere-80-IRRAD	Sphere 80 mm for light measurements (250-2500 nm), sample port 15 mm, 1 SMA port	1.690,00
121	AvaSphere-30-REFL	Integrating sphere 30 mm for reflection (250-2500 nm), sample port 6 mm diam., 2 SMA ports (illum.& refl.)	1.190,00
121	AvaSphere-50-REFL	Integrating sphere 50 mm for reflection (250-2500 nm), sample port 10 mm diam., 2 SMA ports (illum.& refl.)	1.490,00
121	AvaSphere-80-REFL	Integrating sphere 80 mm for reflection (250-2500 nm), sample port 15 mm diam., 2 SMA ports (illum.& refl.)	1.890,00
122	AvaSphere-50-LS-HAL	Integrating sphere 50 mm for reflection(360-2500nm), including 5W halogen lightsource, sample port 10 mm diam., 2 SMA ports (reflection and reference) and 24V power supply.	1.980,00
121	AvaSphere-LED-ADR	Cylindrical Adapter to hold 3, 5, 8 mm LED's inside the AvaSphere-50-IRRAD	99,00
121	AvaSphere-LED-ADR-80	Cylindrical Adapter to hold 3, 5, 8 mm LED's inside the AvaSphere-80-IRRAD	99,00
121	AvaSphere-GT50	Optional gloss-trap 10 mm for AvaSphere-50-REFL, coated with black absorbing material	199,00
121	AvaSphere-GT-50-W	Gloss-trap 10 mm for AvaSphere-50-REFL, coated with white material to include specular reflection	199,00
121	AvaSphere-50-HOLD	WS-2-GEM Tile holder for AvaSphere-50-REFL/LS-HAL for gemology applications	148,00
123	AvaSphere-100	Integrating Sphere, 100mm, 3 ports (0,90,NP), 1baffled SMA port, incl. Postmount	1.650,00
123	AvaSphere-100-SMA	Additional SMA port for the AvaSphere-100	140,00
123	AvaSphere-100-PR10	Port reducer for the AvaSphere-100 to 10 mm	250,00
123	AvaSphere-100-PP	Port plug for unused ports for the AvaSphere-100	70,00
123	AvaSphere-150	Integrating Sphere, 150mm, 3 ports (0,90,NP), 1baffled SMA port, incl. Postmount	2.350,00
123	AvaSphere-150-SMA	Additional SMA port for the AvaSphere-150	140,00
123	AvaSphere-150-PR10	Port reducer for the AvaSphere-150 to 10 mm	250,00
123	AvaSphere-150-PP	Port plug for unused ports for the AvaSphere-150	70,00
123	AvaSphere-200	Integrating Sphere, 200mm, 3 ports (0,90,NP), 1baffled SMA port, incl. Postmount	3.200,00
123	AvaSphere-200-SMA	Additional SMA port for the AvaSphere-200	150,00
123	AvaSphere-200-PR10	Port reducer for the AvaSphere-200 to 10 mm	250,00

123	AvaSphere-200-PP	Port plug for unused ports for the AvaSphere-200	70,00
123	AvaSphere-300	Integrating Sphere, 300mm, opens, 3 ports (0,90,NP), 1baffled SMA port, incl. Mount and port plug	3.600,00
123	AvaSphere-300-SMA	Additional SMA port for the AvaSphere-300	150,00
			Price (€)

page	ACCESSORIES		
new	ILED A-TUBE	LED Intensity tube, condition A (316 mm, 0.001sr), incl. AvaSphere	2.750,00
new	ILED B-TUBE	LED Intensity tube, condition B (100 mm, 0.01sr), incl. AvaSphere	2.500,00
new	ILED-Adapter-T1 3/4	LED adapter for 5mm LED's	795,00
124	CLH-VAR-UV/VIS	Variable Collimating Lens Holder, including 2 COL-UV/VIS collimating lenses	795,00
124	OPM	Optical Post Mount	129,00
125	AvaTripod	Tripod with COL-UV/VIS thread and 6.8mm hole for FCR and CC-UV/VIS	159,00
126	AvaTrigger-USB1	External triggerbox, with opto entrance and multiple triggers for averaging USB1 platform, incl. IC-DB15-2	495,00
126	AvaTrigger-USB2	External triggerbox, with opto entrance for USB2 platform, incl. IC-DB26-2	495,00
127	FOS-1-Inline	In-line Fiber Optic Switch, one optical path, incl. 2 COL-UV/VIS, needs extra 24V power supply	795,00
127	FOS-2-Inline	In-line Fiber Optic Switch, 2 optical path, incl. 4 COL-UV/VIS, needs extra 24V power supply	990,00
127	IC-DB15-FOS2-2	Interface Y-cable AvaSpec-USB1 platform to FOS-2 and AvaLight-S with shutter, 2m	149,00
127	IC-DB26-FOS2-2	Interface Y-cable AvaSpec-USB2 platform to FOS-2 and AvaLight-S with shutter, 2m	149,00
128	FOA-Inline	In-line Fiber Optic attenuator, 0-100%, incl. 2 COL-UV/VIS	480,00
129	FH-Inline-UV/VIS-VAR	In-line filter holder for filters up to 1/2" diameter and 1-8 mm thickness, incl. 2 COL-UV/VIS	290,00
129	FH-Inline-1"	Inline filterholder for 1" filters, max 60mm optical path, incl 2 collimating lenses and SMA connectors	695,00
129	GL-XXX-3-12	External Glass Filter 12 mm round, 3mm thick for FH-Inline (see table page 129)	49,00
129	GL-BG28-3-12	External Glass Filter BG28 12 mm round, 3mm thick for FH-Inline	79,00
130	FOM-UV400-1x16	Fiber Optic Multiplexer, 1 x 16 channels, 400 µm, UV/VIS, add -USA for 110VAC	6.950,00
130	FOM-UV400-2x8	Fiber Optic Multiplexer, 2 x 8 channels, 400 µm, UV/VIS, add -USA for 110VAC	6.950,00
130	FOM-IR400-1x16	Fiber Optic Multiplexer, 1 x 16 channels, 400 µm, VIS/NIR, add -USA for 110VAC	6.950,00
130	FOM-IR400-2x8	Fiber Optic Multiplexer, 2 x 8 channels, 400 µm, VIS/NIR, add -USA for 110VAC	6.950,00
131	FOPFC-XX-YY	Fiber Optic Process Flow Cell, base price without options, specify XX=OPL, YY= line size	2.950,00
132	Flowcell-1/4"	Flow cell 1/4" with variable SMA adapter, 5 mm path length, including 2 UV/VIS/NIR lenses	495,00
132	Flowcell-1/2"	Flow cell 1/2" with variable SMA adapter, 10 mm path length, including 2 UV/VIS/NIR lenses	695,00
132	Flowcell-1"	Flow cell 1" with variable SMA adapter, 20 mm path length, including 2 UV/VIS/NIR lenses	995,00
132	Flowcell-1/4"-FL	Fluorescence Flow cell 1/4" with 2 SMA adapters, including 1 UV/VIS/NIR lens	795,00
132	Gasflowcell-1/4"-5-HPHT	Gasflow cell 1/4" , 5mm optical path length with SMA adapter, including 2 UV/VIS/NIR lenses, high pressure 200 bar, high temp 200 degr C.	750,00
132	Gasflowcell-1/4"-50-HPHT	Gasflow cell 1/4" , 50mm optical path length with SMA adapter, including 2 UV/VIS/NIR lenses, high pressure 200 bar, high temp 200 degr C.	1.250,00
133	Flowcell-Z-10	Flow cell with 10mm optical path, ID 1.5 mm, needs 2pcs FC-UV400-1-SR-FIA fibers	273,00
133	Flowcell-1,5	Flow cell with 1,5mm optical path, ID 1.5 mm, needs 2pcs FC-UV400-1-SR-FIA fibers	278,00
134	LPC-FS-50	Long path flow cell fused silica tubing, 50 mm pathlength	1.540,00
134	LPC-FS-100	Long path flow cell fused silica tubing, 100 mm pathlength	1.540,00
134	LPC-FS-500	Long path flow cell fused silica tubing, 500 mm pathlength	1.608,00
134	LPC-FS-1000	Long path flow cell fused silica tubing, 1 m pathlength	1.657,00
134	LPC-FS-2000	Long path flow cell fused silica tubing, 2 m pathlength	1.852,00
135	RS-2	Specular Reflectance standard with Al+MgF2, 200-2500nm	390,00
135	RS-2-CAL	Specular Reflectance standard with Al+MgF2, 200-2500nm	790,00
135	WS-2	White Reference tile for reflectance measurements	255,00
135	WS-2-GEM	White Reference tile with 10 mm radius hole, specially for gemstone measurement	350,00

page	SENSORS / APPLICATIONS			
		Color Measurement System		
144	Ava-Color	Color Measurement System, consisting of AvaSpec-2048-USB2, grating BB (360-780nm), 200 µm slit, AvaSoft-full and AvaSoft-Color, AvaLight-HAL with PS-24V/1.25A, FCR-7UV200-2 reflection probe, RPH reflection probe holder and WS-2 white reflection tile	4.017,00	
		UV/VIS Absorbance Measurement System		
145	Ava-Absorbance	UV/VIS Absorbance Measurement System, consisting of AvaSpec-2048-USB2, grating UA (200-1100nm), DUV, 25 µm slit, DCL-UV, OSC-UA, AvaSoft-full, AvaLight-DH-S, FDP-7UV200-VAR Dip Probe	6.274,00	
		Irradiance System		
146	Ava-Irrad-UV/VIS	UV/VIS/NIR Irradiance Measurement System, consisting of AvaSpec-2048-USB2, FCPC entrance, grating UA (200-1100nm), DUV, 50 µm slit, OSC-UA, AvaSoft-full and AvaSoft Irrad, IRRAD-CAL-UV/VIS, FC-UV200-2-1FCPC, CC-UV/VIS	4.033,00	
146	IRRAD-CAL-UV	Irradiance calibration service UV range (200-400nm) per channel, incl. NL-calibration, needs AvaSoft-FULL, AvaSoft-IRRAD	250,00	
146	IRRAD-CAL-VIS	Irradiance calibration service VIS range (360-1100nm) per channel, incl. NL-calibration, needs AvaSoft-FULL and AvaSoft-IRRAD	250,00	
146	IRRAD-CAL-NIR	Irradiance calibration service NIR range (1100-2200nm) per channel, incl. NL-calibration, needs AvaSoft-FULL and AvaSoft-IRRAD	250,00	
146	IRRAD-CAL-UV/VIS	Irradiance calibration service UV/VIS range (200-1100nm) per channel, incl. NL-calibration, needs AvaSoft-FULL, AvaSoft-IRRAD and -SR fibers	500,00	
		LED measurements		
147	Ava-LED	LED Measurement System, consisting of AvaSpec-2048-USB2, FCPC entrance, grating VA (350-1000nm), 25 µm slit, DCL-UV, OSC, AvaSoft-full and AvaSoft Irrad, IRRAD-CAL-VIS, FC-UV600-2-1FCPC, AvaSphere-50-IRRAD, AvaSphere LED adapter	4.948,00	
new	Ava-ILED A/B	Average LED Measurement System for condition A and B, consisting of AvaSpec-2048-USB2, FCPC entrance, grating VA (350-1000nm), 25 µm slit, DCL-UV, OSC, AvaSoft-full and AvaSoft Irrad, IRRAD-CAL-VIS, FC-UV600-2-1FCPC, ILEDA and ILEDB tube, AvaSphere, LED adapter	8.900,00	
		Thin Film measurements		
148	Ava-Thinfilm	Thinfilm measurement system, consisting of AvaSpec-2048-USB2, grating UA, DCL-UV/VIS, DUV coating, slit-100, OSC-UA, AvaSoft-Thinfilm, AvaLight-DHc and PS-12V/1.0A, FCR-7UV200-2-ME reflection probe and thinfilm stage	6.159,00	
148	AvaSoft-Thinfilm	AvaSoft Thin film application software	995,00	
148	Thinfilm-Stage	Stage to hold reflection probe	395,00	
		Thinfilm Standard	3 Thinfilm Si-SiO ₂ waferparts in housing, one reference and 2 samples, incl. calibration sheet	290,00
new	Thinfilm Standard-Multilayer	3 Thinfilm Si-SiO ₂ waferparts in housing, one reference and 2 samples with 3 and 5 layers, incl. calibration sheet	390,00	
		Coating processes in vacuum chambers		
149	Ava-Vacuum	Vacuum measurement system, consisting of AvaSpec-2048-USB2, grating UA, slit-50, DUV coating, DCL-UV, OSC-UA, AvaSoft-Full and AvaSoft-XLS add-on, AvaLight-DH-S, FCR-7UV200-2-ME reflection probe, FC-UV600-2 and FC-UV200-2, FC-VFT-UV200 and FC-VFT-UV600 and 4 interconnects	6.679,00	
		Gemmology Measurements		
151	Ava-GEM	Gemmology Measurement System, consisting of AvaSpec-2048-USB2, grating VA (350-1000nm), 25 µm slit, DCL-UV, OSC, AvaSoft-full, AvaSphere-50-LS-HAL and PS-24V/1.25A, FC-UV600-2, AvaSphere-50-HOLD, WS-2-GEM	5.546,00	
151	AvaSphere-50-HOLD	Holder to position WS2-GEM in center of AvaSphere-50-REFL sample port	148,00	
		Fluorescence measurements		
152	Ava-Fluorescence	Fluorescence setup, consisting of AvaSpec-2048-USB2, grating VA, slit-200, DCL-UV, OSC, AvaSoft-Full, AvaLight-LEDxxx and power supply, FCR-UV200/600-2-IND with FCR-FLTIP-IND fluorescence probe	4.948,00	
		Biomedical applications		
153	Ava-Biomedical	Biomedical setup, consisting of AvaSpec-2048-USB2, grating NB, slit-50, OSF-475, AvaSoft-Full, AvaSoft-CHEM, AvaLight-HAL and power supply, FCR-7IR200-2-MS-PK-S, WS-2	3.983,00	
		HortiSpec		
150	HortiSpec	Horticulture measurement system, includes HortiSpec-2048-VIS-BT, grating VA (360-1100 nm), slit-200, DCL-UV/VIS, OSC, CC-UV/VIS, Bluetooth interface, AvaSoft-HortiSpec software, Batterypack, Charger	4.073,00	