2016 Avantes Price List

			Price (€)
		PRECONFIGURED SPECTROMETERS	
	AvaSpec-EDU-VIS	Educational fiber optic VIS spectrometer, 2048 pixels, grating VB (350-850 nm), no slit, USB2 interface	on request
	AvaSpec-EDU-UV/VIS	Educational fiber optic UV/VIS spectrometer, 2048 pixels, grating UA (200-850 nm), DUV400, no slit, USB2 interface	on request
	AvaSpec-ULS3648-USB2-UA-25	Fiber optic UV/VIS/NIR spectrometer, 3648 pixel CCD detector, Slit 25, DUV3648, grating UA (200-1100 nm), OSC-UA, USB powered USB2 high speed interface, including AvaSoft-Full.	on request
	AvaSpec-ULS2048-USB2-UA-50	Fiber optic UV/VIS/NIR spectrometer, 2048 pixels, grating UA (200-1100 nm), slit-50, DUV400, OSC-UA, DCL-UV/VIS, USB2 interface, including AvaSoft-Full, USB interface cable	on request
	AvaSpec-ULS2048-USB2-VA-50	Fiber optic VIS/NIR spectrometer, 2048 pixels, grating VA (360-1100 nm), slit-50, OSC, DCL-UV/VIS, USB2 interface, including AvaSoft-Full, USB interface cable	on request
	AvaSpec-ULS2048L-USB2-BB-50	Fiber optic VIS/NIR spectrometer, 2048L pixels, grating BB (360-880 nm), slit-50, OSF-305, OSC, USB2 interface, including AvaSoft-Full, USB interface cable	on request
	AvaSpec-ULS2048XL-USB2-UA-50	Fiber optic VIS/NIR spectrometer, 2048XL pixels, grating UA (200-1150 nm), slit-50, OSC-UA, USB2 interface, including AvaSoft-Full, USB interface cable	on request
New	**AvaSpec-ULS2048L-USB2-UA-RS**	Ultra Low Straylight Fiber Optic VIS/NIR with Replaceable Slit spectrometer,2048 pixel 14x200µm CCD detector, grating UA (200-1100nm), DCL-UV/VIS-200, OSC-UA, DUV, USB powered USB2 high speed interface. including Avasoft-Full. SLIT-KIT-SMA included (slit-25-RS preinstalled).	on request
		AVASPEC COMPACTLINE SPECTROMETERS	
New	**AvaSpec-Mini2048-U25**	Mini spectrometer, 2048 pixels, grating-MN1800-0.25 (220-390nm), DUV, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini2048-V25**	Mini spectrometer, 2048 pixels, grating-MN600-0.50 (350-885nm), OSC, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini2048-I25**	Mini spectrometer, 2048 pixels, grating-MN600-1.00 (600-1100nm), OSF600, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini2048L-U25**	Mini spectrometer, 2048 Large pixels, grating-MN1800-0.25 (220-390nm), DUV, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini2048L-V25**	Mini spectrometer, 2048 Large pixels, grating-MN600-0.50 (350-885nm), OSC, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini2048L-I25**	Mini spectrometer, 2048 Large pixels, grating-MN600-1.00 (600-1100nm), OSF600, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini3648-U25**	Mini spectrometer,3648 pixels, grating-MN1800-0.25 (220-390nm), DUV, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini3648-V25**	Mini spectrometer, 3648 pixels, grating-MN600-0.50 (350-885nm), OSC, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
New	**AvaSpec-Mini3648-I25**	Mini spectrometer, 3648 pixels, grating-MN600-1.00 (600-1100nm), OSF600, 25µm slit, USB2 interface, with AvaSoft-Basic	on request
		AVASPEC STARLINE SPECTROMETERS	
New	**AvaSpec-ULS2048L-EVO**	Fiber-optic Spectrometer, 75 mm AvaBench, 2048 pixel CCD 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-USB2.	on request
	AvaSpec-128-USB2	Fiber optic spectrometer, 45 mm AvaBench, 128 pixel PDA detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
	AvaSpec-ULS2048-USB2	Ultra low straylight fiber optic spectrometer, 75 mm AvaBench, 2048 pixel CCD detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
	AvaSpec-ULS3648-USB2	Ultra low straylight fiber optic spectrometer, 75 mm AvaBench, 3648 pixel CCD detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
	AvaSpec-ULS2048L-USB2	Ultra low straylight fiber optic spectrometer, 75 mm AvaBench, 2048 pixel 14x200 µm CCD detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
	AvaSpec-ULS350F-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 pixel CCD detector (350 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS750F-USB2	Ultra fast Fiber Optic Spectrometer, 75 mm low stray-light AvaBench, 2048 pixel CCD detector (750 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS950F-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 pixel CCD detector (950 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS1350F-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 pixel CCD detector (1350 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS1650F-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 pixel CCD detector (1650 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS350LF-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 large pixel CCD detector (350 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS750LF-USB2	Ultra fast Fiber Optic Spectrometer, 75 mm low stray-light AvaBench, 2048 large pixel CCD detector (750 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
	AvaSpec-ULS950LF-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 large pixel CCD detector (950 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
			on request
	AvaSpec-ULS1350LF-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 large pixel CCD detector (1350 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full nge and options	on request

	AvaSpec-ULS1650LF-USB2	Ultra fast fiber optic spectrometer, 75 mm low stray-light AvaBench, 2048 large pixel CCD detector (1650 pixel used), USB2 powered high speed USB2 interface, including USB interface cable. Needs AvaSoft-Full for Store2RAM, specify grating, wavelength range and options	on request
New	**AvaSpec-ULSi2048-USB2**	Integrated Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel CCD detector, USB powered high speed USB2 interface, incl. ASC electronic board, AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
New	**AvaSpec-ULSi3648-USB2**	Integrated Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 3648 pixel CCD detector, USB powered high speed USB2 interface, incl. ASC electronic board, AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
New	**AvaSpec-ULSi2048L-USB2**	Integrated Ultra Low Straylight Fiber Optic Spectrometer, 75 mm Avabench, 2048 pixel 14x200µm CCD detector, USB powered high speed USB2 interface, incl. ASC electronic board, AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
		AVASPEC SENSLINE SPECTROMETERS	
	AvaSpec-ULS2048XL-USB2	Ultra low straylight fiber optic spectrometer, 75 mm AvaBench, 2048XL pixel back illum CCD detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
	AvaSpec-HS2048XL-USB2	High-sensitivity fiber-optic Spectrometer, 2048 large 500 µm pixel back-thinned CCD detector, USB powered, high-speed USB2 interface, incl. AvaSoft-Basic, USB interface cable. Specify grating, wavelength range and options	on request
	AvaSpec-HS1024x58TEC-USB2	High sensitivity fiber optic spectrometer, Van Norden optical bench design, 1024x58 pixel back illum TE cooled CCD detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
	AvaSpec-HS1024x122TEC-USB2	High sensitivity fiber optic spectrometer, Van Norden optical bench design, 1024x122 pixel back illum TE cooled CCD detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, specify grating, wavelength range and options	on request
New	**AvaSpec-ULS2048x64TEC-USB2**	Thermo-Electric cooled fiber optic spectrometer, 75 mm ultra-low straylight AvaBench, 2048x64 pixel 3 stage-TE cooled and regulated CCD detector, USB2 high speed interface, including AvaSoft-Basic, USB cable in desktop housing, specify grating, wavelength range and options.	on request
	AvaSpec-ULS2048LTEC-USB2	Thermo-Electric cooled fiber optic spectrometer, 75 mm ultra-low straylight AvaBench, 2048L pixel 3 stage-TE cooled and regulated CCD detector, USB2 high speed interface, including AvaSoft-Basic, USB cable in desktop housing, specify grating, wavelength range and options.	on request
	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, including AvaSoft-Basic, USB cable in desktop housing, specify grating, wavelength range and options.	on request
	AvaSpec-XHS2048L	Extreme high sensitivity spectrometer optimized for Raman spectroscopy at 785 nm	on request
	AvaSpec-XHS2048LTEC	Triple stage TEC cooled extreme high sensitivity spectrometer optimized for Raman spectroscopy at 785 nm	
		AVASPEC NIRLINE SPECTROMETERS	
	AvaSpec-NIR256-1.7	Fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	
	AvaSpec-NIR256-1.7TEC	Fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector with TE cooling, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	on request
	AvaSpec-NIR512-1.7TEC	Fiber optic spectrometer, 50 mm AvaBench, 512 pixel InGaAs detector with TE cooling, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	on request
	AvaSpec-NIR256-2.0TEC	Fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector with 2 stage TEC, high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-2000 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
	AvaSpec-NIR256-2.2TEC	Fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector with 2 stage TEC, high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-2200 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
	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, including AvaSoft-Basic, USB interface cable, 1000-2200 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
New	**AvaSpec-NIR256-2.5-HSC**	NIR Spectrometer, 100 mm Avabench, 256 pixel InGaAs detector 2stage TEC, USB2, incl. AvaSoft-Basic, USB cable, specify OSF, NIR grating and wavelength range and Slit-xx-RS.	on request
		DUAL CHANNEL SPECTROMETERS USB2 PLATFORM	
	AvaSpec-128-2-USB2	Dual channel fiber optic spectrometer, 45 mm AvaBench, 128 pixel PDA detector, 2 x USB powered high speed USB2 interface, including AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	on request
	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, including AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	on request
	AvaSpec-ULS2048L-2-USB2	Dual channel ultra-low straylight fiber optic spectrometer, 75 mm AvaBench, 2048 pixel 14x200 µm CCD detector, 2 x USB powered high speed USB2 interface, including AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	on request
	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, including AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	on request
	AvaSpec-ULS2048XL-2-USB2	Dual channel ultra-low straylight fiber optic spectrometer, 75 mm AvaBench, 2048XL pixel back illum CCD detector, 2 x USB powered high speed USB2 interface, including AvaSoft-Basic, 2x USB cable, sync cable. For each channel specify grating, wavelength range and options	on request

		MULTICHANNEL SPECTROMETERS USB2 PLATFORM	
New	**AvaSpec-UV/VIS/NIR**	Dual Channel BroadBand Spectrometer consisting of: CH1: UV/VIS Spectrometer based on the 2048L detector with replaceable slit. CH2: NIR Spectrometer based on the uncooled 1.7 detector with replaceable slit. Incl.: USB cables, Sync cable, Avasoft-Basic. Excl.: Options for both channels (grating, settings, slit, etc.)	on request
	AVS-DESKTOP-USB2	Desktop for USB2 platform multichannel AvaSpec, including channel synchronization, USB2-hub, one DB26-IO connector and 100-240VAC power supply, supports max 4 rackmount unit spectrometer channels.	on request
	AVS-RACKMOUNT-USB2	19" Rackmount for USB2 platform multichannel AvaSpec, including channel synchronization, USB2-hub, one DB26-IO connector and 100-240VAC power supply, supports max 10 rackmount unit spectrometer channels.	on request
	AvaSpec-128-USB2-RM	Rackmount unit fiber optic spectrometer, 128 pixel PDA detector, self powered high speed USB2 interface, including AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. desktop/rackmount needs to be ordered separately	on request
	AvaSpec-ULS2048-USB2-RM	Ultra low straylight rackmount unit fiber optic spectrometer, 2048 pixel CCD detector, self powered high speed USB2 interface, including AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. desktop/rackmount needs to be ordered separately	on request
	AvaSpec-ULS2048L-USB2-RM	Ultra low straylight rackmount unit fiber optic spectrometer, 2048 pixel 14x200 µm CCD detector, self powered high speed USB2 interface, including AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. desktop/rackmount needs to be ordered separately	on request
	AvaSpec-ULS3648-USB2-RM	Ultra low straylight rackmount unit fiber optic spectrometer, 3648 pixel CCD detector, self powered high speed USB2 interface, including AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. desktop/rackmount needs to be ordered separately	on request
	AvaSpec-ULS2048XL-USB2-RM	Ultra low straylight rackmount unit fiber optic spectrometer, 2048XL pixel back illum CCD detector, self powered high speed USB2 interface, including AvaSoft-Basic software, USB cable and sync cable, specify grating, wavelength range and options. desktop/rackmount needs to be ordered separately	on request
	AvaSpec-NIR256-1.7-RM	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector, USB powered high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	on request
	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, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	on request
	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, including AvaSoft-Basic, USB interface cable, 1000-1700 nm, OSF-850/1000, specify NIR grating, wavelength range and slit	on request
	AvaSpec-NIR256-2.0TEC-RM	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector with 2 stage TEC, high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-2000 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
	AvaSpec-NIR256-2.2TEC-RM	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector with 2 stage TEC, high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-2200 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
	AvaSpec-NIR512-2.2TEC-RM	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 512 pixel InGaAs detector with 2 stage TEC, high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-2200 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
New	**AvaSpec-NIR256-2.5TEC-HSC-RM**	Rackmounted unit fiber optic spectrometer, 50 mm AvaBench, 256 pixel InGaAs detector with 2 stage TEC, high speed USB2 interface, including AvaSoft-Basic, USB interface cable, 1000-2500 nm, OSF-1000, specify NIR grating, wavelength range and slit	on request
	CONN-DB26-RM	Extra DB26-IO connector output for desktop/rackmount for USB2 platform multichannel AvaSpec	on request

	SPECTROMETER OPTIONS		
	-SPU2	Including switch for USB powered USB2 or external power for RS232	on request
	DUV	> 150 nm deep-UV detector coating, only for AvaSpec-2048/3648/2048L < 350 nm	on request
	DCL-VIS	Detector collection lens to enhance sensitivity, only for AvaSpec-128	on request
	DCL-UV/VIS	Detector collection lens for AvaSpec-2048/3648 to enhance sensitivity, quartz, 200-1100 nm	on request
	DCL-UV/VIS-200	Detector collection lens for AvaSpec-2048L/3648/2048x14 for > 200 µm fibers, to enhance sensitivity, quartz, 200-1100 nm	on request
	Slit-XX	Slit size, please specify XX = 10, 25, 50, 100, 200, 500 µm	on request
	-RS	Replaceable slit, to be added to the product code of the AvaSpec-ULS or AvaSpec-NIR256-1.7	on request
	Slit-XX-RS	Replaceable slit with SMA connector. Specify slit size xx = 25, 50, 100 or 200 µm, only in combination with AvaSpec-ULS-RS and AvaSpec-NIR256-1.7-RS	on request
	Slit-XX-RS-FCPC	Replaceable slit with FC/PC connector. Specify slit size xx = 25, 50, 100 or 200 µm, only in combination with AvaSpec-ULS-RS and AvaSpec-NIR256-1.7-RS	on request
	SLIT-KIT-SMA-4	Slit kit containing 25, 50, 100 and 200 µm slits, and the tools to replace the slit. SMA connector	on request
	SLIT-KIT-FCPC-4	Slit kit containing 25, 50, 100 and 200 µm slits, and the tools to replace the slit. FC/PC connector	on request
	SLIT-KIT-TOOLS-SMA	Tools to replace the slit for SMA connector, including box	on request
	SLIT-KIT-TOOLS-FCPC	Tools to replace the slit for FC/PC connector, including box	on request
	GRAT-UNA-DB	Dual blazed grating 300/1000 nm, 300 lines/mm for AvaSpec-ULS2048(L)/3648/2048XL	on request
	OSF-YYY	Order sorting filter for reduction of second order effects (1 mm < 2%), please specify YY= 305, 395, 475, 515, 550, 600 nm	on request
	OSF-YYY-3	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	on request
	OSC	Order sorting coating with 600 nm pass filter for VA, BB and VB gratings in AvaSpec-ULS2048(L)/3648/2048XL	on request
	OSC-UA	Order sorting coating with 350 and 600 nm pass filter for UA gratings in AvaSpec-ULS2048(L)/3648/2048XL	on request
	OSC-UB	Order sorting coating with 350 and 600 nm pass filter for UB and BB gratings starting < 350 nm in AvaSpec-ULS2048(L)/3648/2048XL	on request
	OSC-HS500	Order-sorting coating with 350 and 600 nm pass filter for HS500 gratings in AvaSpec-HS	on request
	OSC-HS600	Order sorting coating with 600nm longpass filter for HS600 gratings in AvaSpec-HS	on request
	OSC-HS900	Order-sorting coating with 600 nm pass filter for HS900 gratings in AvaSpec-HS	on request
	OSC-HS1000	Order-sorting coating with 350 nm pass filter for HS1000 gratings in AvaSpec-HS	on request
	OSC-NIR	Order sorting coating with 1400 nm pass filter for NIR100-2.5 and NIR150-2.0 gratings in AvaSpec-NIR256-2.2/2.5	on request
	Purge ULS	Set of 4 mm gas fittings for AvaSpec-ULS purging in DUV (< 200 nm) applications	on request
	-FC/PC	FC/PC entrance connector on AvaSpec instead of SMA	on request

	SPECTROMETER ACCESSORIES		
	IC-DB26-2	Interface cable AvaSpec-USB2 platform to DB15 for AvaLight-S with shutter for auto save darks & lamp off, AvaLight-XE control, 2 m	on request
	IC-DB26/DB9-2	Interface cable AvaSpec-USB2 platform DB26 male to RS232 DB9 female cable, 2 m	on request
	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, 2 m	on request
	IC-Extrig-USB2	Interface cable AvaSpec-USB2 to external trigger push button, 2 m	on request
	IC-DB26-EXTRIG-BNC-2	Interface cable AvaSpec-USB2 platform to BNC plug external trigger, 2 m	on request
	IC-DB26-Extrig-USB2	Interface Y-cable AvaSpec-USB2 to external trigger push button and AvaLight-S with shutter, 2 m	on request
	IC-DB26-FOS2-2	Interface Y-cable AvaSpec-USB2 platform to FOS-2 and AvaLight-S with shutter, 2 m	on request
New	**IC-DB26-BEAM-2**	Interface cable (2 meters long) (for BSC-DA)	on request
	IC-USB2-2	USB2 Interface cable AvaSpec-USB2 to USB port on PC, 2 m	on request
	IC-COAX-SMB-0.25	Synchronization coax cable with 2 SMB connectors 0.25 m for AvaSpec USB2 platform	on request
	NL-calibration	Non-linearity calibration service (per channel)	on request
	Spectral-cal-service	Spectral calibration service for an AvaSpec, including calibration sheet	on request
	AvaSpec-upgrade	AvaSpec (< 3 years old) upgrade (per channel), change in grating, options (add price of additional options)	

		SPECTROMETER SYSTEMS	
		Raman System	
	AvaRaman-785TEC-USB2	Raman System, includes 500 mW 785 nm, TE-controlled diode laser, AvaSpec-ULS2048LTEC-USB2, grating SI (100-3500 cm-1), slit-25, DCL-UV/VIS, AvaSoft-Raman software and 785 nm laser safety goggles	on request
	AvaRaman-532TEC-USB2	Raman System, includes 50 mW 532 nm diode laser, AvaSpec-ULS2048LTEC-USB2, grating NC (100-5400 cm-1), slit-25, DCL-UV/VIS, AvaSoft-Raman software and 532 nm laser safety goggles	on request
	AvaRaman-PRB-XXX	3/8" Standard low cost fiber optic Raman focusing probe, specify Xxx = excitation wavelength	on request
	AvaRaman-PRB-FP-XXX	1/2" SS focusing probe with 100 µm excitation and 200 µm read fiber, specify Xxx = excitation wavelength	on request
	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	on request
	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 3000 psi), specify Xxx = excitation wavelength	on request
	AvaRaman-SH-3/8"	Rugged sample holder for secure positioning of 3/8" Raman probes	on request
	AvaRaman-SH-1/2"	Rugged sample holder for secure positioning of 1/2" Raman probes	on request
	AvaRaman-Calibrationtile	PTFE white tile for 3/8" Raman probe holder	
New	**AvaRaman-XHS-785TEC**	Supreme: Triple stage TEC cooled preconfigured Extreme High Sensitivity spectrometer optimized for Raman spectroscopy at 785nm, includes laser, saftey glasses and AvaSoft-Raman.	

	SOFTWARE	
AvaSoft-Basic	Basic spectrometer software for Windows XP through 8 for Avantes spectrometers.	on request
AvaSoft-Full	Upgrade from AvaSoft-Basic to AvaSoft-Full software for Windows XP through 8 for Avantes spectrometers, includes Avasoft-XLS	on request
AvaSoft-All	Upgrade from AvaSoft-Basic to AvaSoft-All software including applications Color, Irradiance, Chemometrics, Excel and Process Control for Windows XP through 8 for Avantes spectrometers	on request
AvaSoft-COL	Color application add-on software, to be ordered with AvaSoft-Full	on request
AvaSoft-IRRAD	Irradiance application add-on software, to be ordered with AvaSoft-Full	on request
AvaSoft-CHEM	Chemometry application add-on software for concentration measurements, to be ordered with AvaSoft-Full	on request
AvaSoft-PROC	Process control application add-on software, to be ordered with AvaSoft-Full. Controls 8 on-board TTL output signals	on request
AvaSoft-FOM	Fiber optic multiplexer integration stand-alone software	on request
AvaSoft-Raman	Raman stand-alone software for the AvaRaman system	on request
AvaSoft-Thinfilm	Thinfilm stand-alone software for the AvaThinfilm system	on request
TFProbe	Thinfilm multilayer measurement software	on request
Panorama-Pro	Spectroscopic mathematic dataprocessing software package, 2D/3D display	on request
Panorama-Search	Add-on to Panorama Pro, including library module & spectrum search module	on request
Panorama-Quantify	Add-on to Panorama Pro, including multivariate data analysis with PLS, MLR	on request
Panorama-Raman	Add-on to Panorama Pro, including Raman interpretation and functional group assignment	on request
Panorama-Security	Add-on to Panorama Pro, full 21 CFR part 11 compliance. Ideal for FDA/GXP regulated environments	on request
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
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
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
AS-5216-DLL	Interface 32- and 64-bit DLL package for AvaSpec-USB2 platform for Windows XP through 8, including sample programs	on request
FOM-DLL	Interface DLL driver package for FOM fiber optic multiplexer for Windows XP through 8, including sample programs for C++, Delphi and Labview	
COLOR-DLL	32-bit DLL for Windows XP through 8 to calculate L*, a*, b* etc color coefficients	
IRRAD-DLL	32-bit DLL for Windows XP through 8 for irradiance/LED applications	

		LIGHT SOURCES	
	AvaLight-DHc	Compact Deuterium-Halogen light source 200-2500 nm with TTL-shutter, needs PS-12V/1.0A (not included)	on request
	AvaLight-DHc-RM	Compact rackmount Deuterium-Halogen light source 200-2500 nm with TTL-shutter	on request
	AvaLight-DHc-B	Compact Deuterium-Halogen replacement bulb	on request
New	**AvaLight-HAL-Mini**	10W Tungsten Halogen Lamp, fan-cooled, needs extra PS-12V/2.08A power supply.	on request
New	**AvaLight-HAL-S-Mini**	10W Tungsten Halogen Lamp, fan-cooled, including shutter, needs extra PS-12V/2.08A power supply.	on request
New	**AvaLight-HAL-S-MINI-RM**	Avalight-HAL-S-Mini in rackmount version	on request
New	**AvaLight-HAL-S-MINI-RM-DUAL**	Dual Avalight-HAL-S-Mini in rackmount version	on request
New	**AvaLight-HAL-S-MINI-IND**	10W Tungsten Halogen Lamp, fan-cooled, including shutter, includes PS-12V/2.08A power supply. With Industrial connector.	on request
New	**AvaLight-HAL-B-Mini**	Replacement bulb for Avalight-HAL-(S)-Mini	on request
New	**DONGLE-Mini-H**	Dongle for external highpower setting	on request
New	**DONGLE-Mini-L**	Dongle for external longlife setting	on request
	GL-XXX-Y	External glass filter 50x50xY mm for lamp or filter holder	on request
	GL-BG28-Y	External glass filter BG28 50x50xY mm for lamp or filter holder	on request
	AvaLight-D-S	Deuterium light source, 190-400 nm, including TTL shutter, -SR fibers needed	on request
	AvaLight-DH-S	Deuterium-Halogen light source, 190-2500 nm, including TTL shutter, -SR fibers needed	on request
	AvaLight-D-S-DUV	Deep-UV Deuterium light source, 175-400 nm, including TTL shutter, -SR fibers needed	on request
	AvaLight-DH-S-DUV	Deep-UV Deuterium-Halogen light source, 175-2500 nm, including TTL shutter, -SR fibers needed	on request
	AvaLight-D-B	Replacement Deuterium bulb for AvaLight-D/AvaLight-DH light source	on request
	AvaLight-D-B-DUV	Replacement deep-UV Deuterium bulb for AvaLight-D/AvaLight DH light source	on request
	AvaLight-DH-B	Replacement 5W Halogen bulb for AvaLight-DH light source and AvaSphere-50-LS-HAL	on request
New	**AvaLight-HAL-B-5W**	5W, Tungsten Halogen Replacement bulb for AvaSphere-50-LS-HAL	on request
	AvaLight-D-S-BAL	Balanced Deuterium light source, 215-450 nm, including TTL shutter, -SR fibers needed	on request
	AvaLight-DH-S-BAL	Balanced Deuterium-Halogen light source, 215-2500 nm, including TTL shutter, -SR fibers needed	on request
	Avalight-XE	Xenon light source (200-1000 nm), needs interface cable and extra PS-12V/1.0A power supply	on request
	Avalight-XE-DUV	Xenon light source for DUV (160-1000 nm), needs interface cable and extra PS-12V/1.0A power supply	on request
	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)	on request
	Avalight-XE-B	Spare bulb for the Avalight-XE (200-1000 nm)	on request
	Avalight-XE-B-DUV	Spare bulb for the Avalight-XE-DUV (160-1000 nm)	on request
New	**AvaLight-HAL-CAL-MINI**	Halogen Light Source calibrated against NIST traceable standard with CC-VIS/NIR diffuser, incl. calibrated PS-12V/2.08A	on request
New	**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	on request
New	**AvaLight-HAL-CAL-ISP50-MINI**	Halogen Light source calibrated against NIST traceable standard for use with AvaSphere-50-IRRAD, incl. calibratedPS-12V/2.08A and special sphere holder bottomplate	on request
New	**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	on request
	AvaSphere-50-LS-HAL-CAL	Radiance calibration source calibrated against NIST traceable standard, 10 mm and SMA adapter calibrated, including PS-24V/1.25A	on request
	HL-Recal	AvaLight-HAL-CAL (re)calibration service	on request
	HL-Recal-NIR	AvaLight-HAL-CAL (re)calibration service for 1100-2500 nm	on request
	AvaLight-D-CAL	UV Deuterium light source, calibrated against NIST traceable standard, with CC-UV/VIS diffuser, -SR fibers recommended	on request
	AvaLight-DH-CAL	UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, with CC-UV/VIS diffuser, -SR fibers recommended	on request
	AvaLight-DH-BAL-CAL	Balanced UV/VIS Deuterium-Halogen light source calibrated against NIST traceable standard, with CC-UV/VIS diffuser, -SR fibers recommended	on request
	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	on request
	AvaLight-DH-CAL-ISP50	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	on request
	AvaLight-DH-CAL-ISP80	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	on request
	DH-Recal	AvaLight-DH-CAL (re)calibration service	on request

	LIGHT SOURCES	
AvaLight-CAL	Mercury Argon calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	on request
AvaLight-CAL-NEON	Neon calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	on request
AvaLight-CAL-AR	Argon calibration source, 5000 hrs, needs extra PS-12V/1.0A power supply, SMA	on request
AvaLight-CAL-RM	Rack mounted version of Mercury-Argon calibration source, SMA	on request
AvaLight-CAL-B	Replacement bulb, 5000 hrs, Mercury-Argon	on request
AvaLight-CAL-NEON-B	Replacement bulb, 5000 hrs, Neon	on request
AvaLight-CAL-AR-B	Replacement bulb, 5000 hrs, Argon	on request
AvaLight-CAL-ZINC	Zinc calibration source, 1000 hrs, including power supply, SMA	on request
AvaLight-CAL-CAD	Cadmium calibration source, 1000 hrs, including power supply, SMA	on request
AvaLight-CAL-ZINC-B	Zinc spare bulb, 1000 hrs	on request
AvaLight-CAL-CAD-B	Cadmium spare bulb, 1000 hrs	on request
AvaLight-LED-XXX	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)	on request
AvaLight-LED-XXX-RM	Rackmount version of miniature LED source, specify wavelength Xxx = 355, 380, 400, 410, 430, 450, 470, 530, 590, 780 nm	on request
AvaLight-LED-CON	LED light source control unit with electrical connector to LED, needs interface cable and PS-12V/1.0A (not included)	on request
CUV-LED-XXX	LED holder for cuvette, specify LED wavelength	

	FIBER OPTIC CABLES	
	Specify fiber type xx = UV for UV/VIS (200-800 nm); xx = IR for VIS/NIR (350-2500 nm); xx = UVIR for UV/VIS/NIR (250-2500 nm)	on request
FC-IR008-2	Fiber cable, 8 µm fiber, 2 m, SMA terminated	on request
FC-UV050-2	Fiber cable, UV/VIS, 50 µm fiber, 2 m, SMA terminated	on request
FC-IR050-2	Fiber cable, VIS/NIR, 50 µm fiber, 2 m, SMA terminated	on request
FC-xx100-2	Fiber cable, 100 µm fiber, 2 m, SMA terminated	on request
FC-UVIR200-2	Fiber cable, 200 µm fiber, broadband UV/VIS/NIR (250-2500 nm), 2 m, SMA terminated	on request
FC-xx200-2	Fiber cable, 200 µm fiber, 2 m, SMA terminated	on request
FC-UVIR400-2	Fiber cable, 400 µm fiber, broadband UV/VIS/NIR (250-2500 nm), 2 m, SMA terminated	on request
FC-xx400-2	Fiber cable, 400 µm fiber, 2 m, SMA terminated	on request
FC-UVIR600-2	Fiber cable, 600 µm fiber, broadband UV/VIS/NIR (250-2500 nm), 2 m, SMA terminated	on request
FC-xx600-2	Fiber cable, 600 µm fiber, 2 m, SMA terminated	on request
FC-xx800-2	Fiber cable, 800 µm fiber, 2 m, SMA terminated	on request
FC-xx1000-2	Fiber cable, 1000 µm fiber, 2 m, SMA terminated	on request
FC-UV400-1-SR-FIA	Fiber cable, 400 µm fiber, UV/VIS, SR, 1 m, 1 SMA and 1.5 mm ferrule for FIA-Z-CELL	on request
FCB-UV050-2	Bifurcated fiber cable, 50 µm fibers, UV/VIS, 2 m, SMA terminated	on request
FCB-IR050-2	Bifurcated fiber cable, 50 µm fibers, VIS/NIR, 2 m, SMA terminated	on request
FCB-xx100-2	Bifurcated fiber cable, 100 µm fibers, 2 m, SMA terminated	on request
FCB-UVIR200-2	Bifurcated fiber cable, 200 µm fibers, broadband UV/VIS/NIR (250-2500 nm), 2 m, 3x SMA	on request
FCB-xx200-2	Bifurcated fiber cable, 200 µm fibers, 2 m, SMA terminated	on request
FCB-UVIR400-2	Bifurcated fiber cable, 400 µm fibers, broadband UV/VIS/NIR (250-2500 nm), 2 m, 3 x SMA	on request
FCB-xx400-2	Bifurcated fiber cable, 400 µm fibers, 2 m, SMA terminated	on request
FCB-UVIR600-2	Bifurcated fiber cable, 600 µm fibers, broadband UV/VIS/NIR (250-2500 nm), 2 m, 3 x SMA	on request
FCB-xx600-2	Bifurcated fiber cable, 600 µm fibers, 2 m, SMA terminated	on request
FC3-UVIR200-2	Trifurcated cable, 3x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC3-UVIR400-2	Trifurcated cable, 3x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC3-UVIR600-2	Trifurcated cable, 3x600 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC4-UVIR200-2	Four-furcated cable, 4x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC4-xx200-2	Four-furcated cable, 4x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC4-UVIR400-2	Four-furcated cable, 4x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC4-xx400-2	Four-furcated cable, 4x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC4-UVIR600-2	Four-furcated cable, 4x600 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC4-xx600-2	Four-furcated cable, 4x600 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC5-UVIR200-2	Five-furcated cable, 5x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC5-xx200-2	Five-furcated cable, 5x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC5-UVIR400-2	Five-furcated cable, 5x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC5-xx400-2	Five-furcated cable, 5x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC6-UVIR200-2	Six-furcated cable, 6x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC6-xx200-2	Six-furcated cable, 6x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC6-UVIR400-2	Six-furcated cable, 6x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC6-xx400-2	Six-furcated cable, 6x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC8-UVIR200-2	Eight-furcated cable, 8x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC8-xx200-2	Eight-furcated cable, 8x200 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FC8-UVIR400-2	Eight-furcated cable, 8x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, broadband UV/VIS/NIR (250-2500 nm)	on request
FC8-xx400-2	Eight-furcated cable, 8x400 µm fibers, all legs SMA terminated, total 2 m, splitting point in the middle, specify xx = UV or IR or UVIR	on request
FCRL-7xx100-2	Round to linear fiber cable, 7x100 µm fibers, 2 m, SMA terminated	on request
FCRL-4xx200-2	Round to linear fiber cable, 4x200 µm fibers, 2 m, SMA terminated	on request

-BX	Flexible full interlocking stainless steel sheathing 6 mm OD, add per meter; Add on price only applicable for FC-xxxx	on request
-ME	Flexible chrome plated brass sheathing 5 mm OD, add per meter	on request
-MS	Flexible metal sheathing with silicone cover, IP67, add per meter	on request
-HT	High temperature (max 200 drg. C) for all metal sheathing cables and probes	on request
-FX	Form Holding Interlocked Tube 6mm OD : Add per meter; Add on price only applicable for FC-xxxx	on request
-SR (UV100)	Solarization resistant fiber for DUV applications, 100 µm only, add per meter	on request
-SR (UV200)	Solarization resistant fiber for DUV applications, 200 µm only, add per meter	on request
-SR (UV400)	Solarization resistant fiber for DUV applications, 400 µm only, add per meter	on request
-SR (UV600)	Solarization resistant fiber for DUV applications, 600 µm only, add per meter	on request
-SR (UV800)	Solarization resistant fiber for DUV applications, 800 µm only, add per meter	on request
-ST	ST connector terminated instead of standard SMA-905, per connector extra	on request
-FC/PC	FC/PC connector terminated instead of standard SMA-905, per connector extra	on request
		on request
	FIBER OPTIC PROBES	on request
FCR-7UVIR200-2-ME	Reflection probe, 6 illumination, 1 read fiber, 200 µm fibers with flexible metal sheathing, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-7xx200-2-ME	Reflection probe, 6 illumination, 1 read fiber, 200 µm fibers with flexible metal sheathing	on request
FCR-7UVIR400-2-ME	Reflection probe, 6 illumination, 1 read fiber, 400 µm fibers with flexible metal sheathing, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-7xx400-2-ME	Reflection probe, 6 illumination, 1 read fiber, 400 µm fibers with flexible metal sheathing	on request
FCR-19UVIR200-2-ME	Reflection probe, 17 illumination, 2 read fibers in seperate legs, SMA, metal sheathing, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-19xx200-2-ME	Reflection probe, 17 illumination, 2 read fibers in seperate legs, SMA, metal sheathing	on request
FCR-90-OPTION	90° Reflection add-on reflector for use with all 1/4" Reflection probes	on request
FCR-COL-UV/VIS	Adjustable UV/VIS/NIR collimating/focusing lens	on request
FCR-7UV400C-2-ME-HTX	Reflection probe with 7x400µm UV/Vis fibers, 2 meters long, common part with 6, 35x50mm stainless steel ferrule, metal protective sleeve and SMA connectors (HTX up to 700 degr., max 100 bar)	on request
FCR-14UVIR200-2-REF-ME	Reflection probe with reference, 2 m, SMA terminated, with flexible metal sheathing, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-14xx200-2-REF-ME	Reflection probe with reference, 2 m, SMA terminated, with flexible metal sheathing	on request
FCR-7UVIR200-2-1.5x100	Reflection probe, 6+1 fibers, 1.5x100 mm tip, 2 m, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-7xx200-2-1.5x100	Reflection probe, 6+1 fibers, 1.5x100 mm tip, 2 m	on request
FCR-7UVIR200-2-2.5x100	Reflection probe, 6+1 fibers, 2.5x100 mm tip, 2 m, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-7xx200-2-2.5x100	Reflection probe, 6+1 fibers, 2.5x100 mm tip, 2 m	on request
FCR-7UV100-2-1x25	Reflection probe for AFH-ocular, 6+1 UV/VIS fibers, 1.0 x 25 mm tip, 2 m	on request
FCR-7UVIR200-2-45-ME	Reflection probe, 45 degr. window for liquids and powders with flexible metal sheathing, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-7xx200-2-45-ME	Reflection probe, 45 degr. window for liquids and powders with flexible metal sheathing	on request
FCR-7UVIR200-2-45-IND	1/2" reflection probe, 45 degr. window for liquids and powders with flexible metal sheathing, broadband UV/VIS/NIR (250-2500 nm)	on request
FCR-7xx200-2-45-IND	1/2" reflection probe, 45 degr. window for liquids and powders with flexible metal sheathing	on request
FCR-TIP45	1/2" replacement tip with 45 degr. window for liquids and powders	on request
FCR-UV200/600-2-IND	1/2" reflection probe for fluorescence applications	on request
FCR-FLTIP-IND	Fluorescence reflector accessory for 1/2" FCR-45-IND probes	on request
FDP-UV-micro-yy-SR	1/16" micro dip probe, specify spacing yy = 1, 2.5 or 5 mm optical path = 2 * spacing, solarization resistant fibers	on request
FDP-2UVIR200-2-5-mini	1/8" mini dip probe, 5 mm spacing, 10 mm path length, broadband UV/VIS/NIR (250-2500 nm), 2 m	on request
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), 2 m	on request
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 (250-2500 nm)	on request
FDP-7xx200-2-yy	Transmission dip probe, specify tip spacing yy = 1, 2.5 or 5 mm (optical path=2*yy), metal sheat	on request
FDP-TIP-yy	Replacement tip for dip probe, specify tip spacing yy = 1, 2.5 or 5 mm	on request
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 (250-2500 nm)	on request
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)	on request
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 (250-2500 nm)	on request
FDP-7xx200-2-VAR	Transmission dip probe with variable tip length (0.25-10 mm (optical path=0.5-20 mm))	on request
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 (250-2500 nm)	on request
FDP-7xx200-2-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 (250-2500 nm)	on request
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 (250-2500 nm)	on request
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)), broadband UV/VIS/NIR (250-2500 nm)	on request
FDP-TIP-VAR	Replacement stainless steel tip for transmission dip probe with variable tip length	on request
FDP-TIP-VAR-PEEK	Replacement PEEK tip for Transmission dip probe with variable tip length	on request

	FIBER OPTIC ACCESSORIES	on request
COL-UV/VIS	Collimating lens for UV/VIS/NIR, including SMA adapter, adjustable focus	on request
COL-UV/VIS-FC/PC	Collimating lens for UV/VIS/NIR, including FC/PC adapter, adjustable focus	on request
COL-90-UV/VIS	Right angle collimating lens for UV/VIS/NIR, including SMA connector	on request
COL-UV/VIS-25	Collimating lens 25 mm for UV/VIS/NIR, including SMA adapter and adjustable focus	on request
CC-UV/VIS	Cosine corrector for UV/VIS with SMA coupling	on request
CC-UV/VIS/NIR-5.0	Cosine corrector with radin diffusing material for UV/VIS/NIR, special 5.0 degrees aperture, SMA coupling	on request
CC-VIS/NIR	Cosine corrector radin for UV/VIS/NIR with SMA coupling	on request
CC-UV/VIS/NIR-8MM	Cosine corrector with radin diffusing material for UV/VIS/NIR, 8 mm active area, SMA	on request
CC-DA-4.5	Direct attach cosine corrector for all SMA AvaSpecs with radin diffusing material for UV/VIS/NIR, 4.5 mm	on request
FC-VFT-xx050	Vacuum feedthrough for 50 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
FC-VFT-xx100	Vacuum feedthrough for 100 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
FC-VFT-UVIR200	Vacuum feedthrough for 200 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
FC-VFT-UVIR400	Vacuum feedthrough for 400 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
FC-VFT-UVIR600	Vacuum feedthrough for 600 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
FC-VFT-xx800	Vacuum feedthrough for 800 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
FC-VFT-xx1000	Vacuum feedthrough for 1000 µm fibers, including SMA adapter, needs 2 extra SMA interconnects	on request
MMA1-UV/VIS-SMA	UV/VIS homogenizer / mode stripper, 1 mm diameter for SMA connectors	on request
MMA3-UV/VIS-SMA	UV/VIS homogenizer / mode stripper, 3 mm diameter for SMA connectors	on request
AVS-MFA-SMA	C-mount adapter for Olympus, SMA connector	on request
AVS-CMOUNT-SMA	C-mount adapter, SMA connector	on request
AVS-CMOUNT-FCPC	C-mount adapter, FC/PC connector	on request
RPH-1	Reflection probe holder for straight or 45 degree measuring	on request
AFH-15	Angled fiber probe holder for measuring under different angles, needs 1.5 mm ferrule fibers	on request
FC-UV200-2-1.5x40	Fiber cable, 200 µm UV/VIS fiber, 2 m, one end with SMA connector, other end with stainless steel ferrule, OD=1.5 mm x 40 mm	on request
AFH-Ocular	Angled fiber probe holder for precise measurements under 45 degrees, including ocular. Needs FCR-7UV100-2-1x25	on request
FCR-7UV100-2-1x25	Reflection probe with 7x100 µm UV/VIS fibers to 1x25 mm stainless steel ferrule, 2 meter long with PVC/Kevlar protection sleeve and 2 SMA connectors	on request
Transmission Stage	Transmission and reflection stage, 420 mm high	on request
ME-FI-SM-MM	SMA fiber interconnect, panel mountable	on request
ME-FI-ST-MM	ST fiber interconnect, panel mountable	on request
ME-FI-FCPC-MM	FC/PC fiber interconnect, panel mountable	on request
ME-SM-BC	SMA to TO18 adapter	on request
ME-SM-BC-S	SMA to TO5 adapter	on request
ME-ST-BC	ST bulkhead adapter	on request
ME-FCPC-BC	FC/PC bulkhead adapter	on request

		ACCESSORIES	
	AvaGigE	USB to Ethernet converter with controlling software	on request
New	**BSC-DA**	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	on request
	CUV-UV/VIS	Cuvette holder, 10 mm path, includes 2 UV/VIS/NIR collimating lenses and cover	on request
	CUV-FL-UV/VIS	Cuvette holder, 10 mm path, with fluorescence port, 2 UV/VIS/NIR lenses, 2 coated mirrors and cover	on request
	CUV-ALL-UV/VIS	Cuvette holder, 10 mm path, 2 beams, 4 x UV/VIS/NIR collimating lenses and cover	on request
	CUV-FL-MIRROR	SiO2 coated aluminum mirror	on request
	CUV-10-2	Quartz cuvette 10 mm, 2 windows, 3.5 ml	on request
	CUV-10-4	Quartz cuvette 10 mm, 4 windows, 3.8 ml	on request
	CUV-UV/VIS-TC-ABS	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	on request
	CUV-UV/VIS-TC-FL	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	on request
	CUV-UV/VIS-TC-ABS/FL	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	on request
	CUV-UV/VIS-TC-AVXE	Base plate and support with AR-coated fused silica lens pair for excitation using the AvaLight-XE pulsed Xenon light sources	on request
	CUV-TC-QCL-UV	AR coated fused silica collimating lens for temperature controlled cuvette holder	on request
	CUV-TC-QIL-UV	AR coated fused silica imaging lens for temperature controlled cuvette holder	on request
	CUV-TC-QMP	Spherical mirror plate with steering plate for CUV-UV/VIS-TC	on request
	CUV-TC-QFH	Filter holder for CUV-UV/VIS-TC	on request
	FH-DA	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	on request
New	**FH-DA-HAL-MINI**	Direct-attach Filter Holder for 13 mm diameter filters, 1-8 mm thick, incl. one UV/VIS collimating lens for AvaLight-HAL mounting	on request
	GL-XXX-3-12	External glass filter 12 mm round, 3 mm thick for FH-Inline (see table page 140)	on request
	GL-BG28-3-12	External glass filter BG28 12 mm round, 3 mm thick for FH-Inline	on request
	CUV-DA	SMA screw-on 10 mm cuvette holder for AvaLight-DHc/XE/LED, including COL-UV/VIS lens and 2 mirrors	on request
	CUV-DA-DHS	Direct attached 10 mm cuvette holder for AvaLight-DH(S), including COL-UV/VIS lens and 2 mirrors	on request
New	**CUV-DA-HAL-MINI**	Direct attachment 10 mm cuvette holder for AvaLight-HAL(S), incl. COL-UV/VIS lens and 2 mirrors	on request
	ATT-DA	Direct-attached fiber-optic attenuator for AvaLight-DHc/XE/LED, 0-100%, SMA connector	on request
New	**ATT-DA-HAL-MINI**	Direct-attach Fiber-optic Attenuator for AvaLight-HAL(S), 0-100%, SMA connector	on request
	CUV-ATT-DA	Direct attached cuvette holder including attenuator for AvaLight-DHC, Avalight-XE and AvaLight-LED	on request
New	**CUV-ATT-DA-HAL-MINI**	Direct attached cuvette holder incl. attenuator for AvaLight-HAL(S)	on request
	FH-INL	In-line filter holder for filters up to 1/2" diameter and 1-8 mm thickness, including 2 COL-UV/VIS	on request
	FH-INL-1"	In-line filter holder for 1" filters, max 60 mm optical path, including 2 collimating lenses and SMA connectors	on request
New	**ATT-INL-EXT**	In-Line Fiberoptic Attenuator. Connections: 2 x SMA. Attenuation: 0-100%. Control: manual lever and fixation screw.	on request
	CUV-VAR-UV/VIS	Cuvette holder with variable path length 0-100 mm path, includes 2 COL-UV/VIS lenses	on request
	AvaSphere-30-IRRAD	Sphere 30 mm for light measurements (250-2500 nm), sample port 6 mm, 1 SMA port	on request
	AvaSphere-50-IRRAD	Sphere 50 mm for light measurements (250-2500 nm), sample port 10 mm, 1 SMA port	on request
	AvaSphere-80-IRRAD	Sphere 80 mm for light measurements (250-2500 nm), sample port 15 mm, 1 SMA port	on request
	AvaSphere-30-REFL	Integrating sphere 30 mm for reflection (250-2500 nm), sample port 6 mm diamameter, 2 SMA ports (illuminance & reflectance)	on request
	AvaSphere-50-REFL	Integrating sphere 50 mm for reflection (250-2500 nm), sample port 10 mm diamameter, 2 SMA ports (illuminance & reflectance)	on request
	AvaSphere-80-REFL	Integrating sphere 80 mm for reflection (250-2500 nm), sample port 15 mm diameter, 2 SMA ports (illuminance & reflectance)	on request
	AvaSphere-LED-ADR	Cylindrical adapter to hold 3, 5, 8 mm LEDs inside the AvaSphere-50-IRRAD	on request
	AvaSphere-LED-ADR-80	Cylindrical adapter to hold 3, 5, 8 mm LEDs inside the AvaSphere-80-IRRAD	on request
	AvaSphere-GT50	Optional gloss-trap 10 mm for AvaSphere-50-REFL, coated with black absorbing material	on request
	AvaSphere-GT-50-0-W	Gloss-trap 10 mm for AvaSphere-50-REFL, coated with white material to include specular reflection	on request
	AvaSphere-50-HOLD	WS-2-GEM tile holder for AvaSphere-50-REFL/LS-HAL for gemology applications	on request
New	**AvaSphere-50-LS-HAL-12V**	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	on request
	AvaSphere-100	Integrating sphere, 100 mm, 3 ports (0, 90, NP), 1 baffled SMA port, including post mount	on request
	AvaSphere-100-SMA	Additional SMA port for the AvaSphere-100	on request
	AvaSphere-100-PR10	Port reducer for the AvaSphere-100 to 10 mm	on request
	AvaSphere-100-PP	Port plug for unused ports for the AvaSphere-100	on request
	AvaSphere-150	Integrating sphere, 150 mm, 3 ports (0, 90, NP), 1 baffled SMA port, including post mount	on request
	AvaSphere-150-SMA	Additional SMA port for the AvaSphere-150	on request
	AvaSphere-150-PR10	Port reducer for the AvaSphere-150 to 10 mm	on request
	AvaSphere-150-PP	Port plug for unused ports for the AvaSphere-150	on request
	AvaSphere-200	Integrating sphere, 200 mm, 3 ports (0, 90, NP), 1 baffled SMA port, including post mount	on request
	AvaSphere-200-SMA	Additional SMA port for the AvaSphere-200	on request
	AvaSphere-200-PR10	Port reducer for the AvaSphere-200 to 10 mm	on request
	AvaSphere-200-PP	Port plug for unused ports for the AvaSphere-200	on request

		ACCESSORIES	
	ILEDA-TUBE	LED intensity tube, condition A (316 mm, 0.001 sr), including AvaSphere	on request
	ILEDB-TUBE	LED intensity tube, condition B (100 mm, 0.01 sr), including AvaSphere	on request
	ILED-Adapter-T1 3/4	LED adapter for 5 mm LEDs	on request
	CLH-VAR-UV/VIS	Variable collimating lens holder, including 2 COL-UV/VIS collimating lenses	on request
	OPM	Optical post mount	on request
	AvaTripod	Tripod with COL-UV/VIS thread and 6.8 mm hole for FCR and CC-UV/VIS	on request
	AvaTrigger-USB2	External trigger box, with optical entrance for USB2 platform, including IC-DB26-2	on request
	FOS-1-Inline	In-line fiber optic switch, one optical path, including 2 COL-UV/VIS, needs 24V power supply (not included)	on request
	FOS-2-Inline	In-line fiber optic switch, 2 optical path, including 4 COL-UV/VIS, needs 24V power supply (not included)	on request
	IC-DB26-FOS2-2	Interface Y-cable AvaSpec-USB2 platform to FOS-2 and AvaLight-S with shutter, 2 m	on request
	FOM-UVIR400-1x16	Fiber optic multiplexer, 1 x 16 channels, 400 µm, UV/VIS/NIR	on request
	FOM-UVIR400-2x8	Fiber optic multiplexer, 2 x 8 channels, 400 µm, UV/VIS/NIR	on request
	FOM-UVIR400-4x4	Fiber optic multiplexer, 4 x 4 channels, 400 µm, UV/VIS/NIR	on request
	FOPFC-XX-YY	Fiber optic process flow cell, base price without options, specify xx = OPL, yy = line size	on request
	Flowcell-1/4"	Flow cell 1/4" with variable SMA adapter, 5 mm path length, including 2 UV/VIS/NIR lenses	on request
	Flowcell-1/2"	Flow cell 1/2" with variable SMA adapter, 10 mm path length, including 2 UV/VIS/NIR lenses	on request
	Flowcell-1"	Flow cell 1" with variable SMA adapter, 20 mm path length, including 2 UV/VIS/NIR lenses	on request
	Flowcell-1/4"-FL	Fluorescence flow cell 1/4" with 2 SMA adapters, including 1 UV/VIS/NIR lens	on request
	Flowcell-1/4"-5-HPHT	Flow cell for gasses and liquids 1/4", 5 mm optical path length with SMA adapter, including 2 UV/VIS/NIR lenses, high pressure 200 bar, high temp 200 degr C.	on request
	Flowcell-1/4"-50-HPHT	Flow cell for gasses and liquids 1/4", 50 mm optical path length with SMA adapter, including 2 UV/VIS/NIR lenses, high pressure 200 bar, high temp 200 degr C.	on request
	Flow-cell-Z-10	Flow cell with 10mm optical path, ID 1.5 mm, needs 2 pcs FC-UV400-1-SR-FIA fibers	on request
	Flow-cell-1.5	Flow cell with 1.5 mm optical path, ID 1.5 mm, needs 2 pcs FC-UV400-1-SR-FIA fibers	on request
	RS-2	Specular reflectance standard with Al+MgF2, 200-2500 nm	on request
	RS-2-CAL	Specular reflectance standard with Al+MgF2, 250-2500 nm	on request
	WS-2	White reference tile for reflectance measurements	on request
	WS-2-CAL	NIST traceable calibrated white reference tile with 8° hemispherical calibration	on request
	WS-2-GEM	White reference tile with 10 mm radius hole, specially for gemstone measurement	on request
New	**PS-5V/1.1A**	Power Supply for BSC-DA	on request
	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	on request
New	**PS-12V/2.08A**	Power Supply for Avalight-HAL-(S)-Mini	on request
	PS-24V/1.25A	Power supply 100-240VAC/24VDC, 1.25A, necessary for AvaLight-HAL, europlug standard, otherwise please specify -UK, -US, -AUS	on request
	Batterypack-5+12V/13Ah	Battery pack 5 and 12VDC, 13Ah	on request
	Batterypack-5+12V/13Ah-RM	Battery pack 5 and 12VDC, 13Ah, rackmounted version	on request
	Batterypack-12V/1.5Ah	Battery pack 12VDC, 1500mAh	on request
	Batterypack-12V/1.5Ah-RM	Battery pack 12VDC, 1500mAh, rackmounted version	on request
	Batterypack-24V/3.2Ah	Battery pack 24VDC, 3200mAh	on request
	Batterypack-24V/3.2Ah-RM	Battery pack 24VDC, 3200mAh, rackmounted version	on request
	Batterypack-charger 5V/2.5A	Charger for battery pack 5VDC, input 100-240VAC, 2.5A, europlug standard, otherwise please specify -UK, -US, -AUS	on request
	Batterypack-charger 1.0A	Charger for battery pack 12/24VDC, input 100-240VAC, 1.0A, europlug standard, otherwise please specify -UK, -US, -AUS	on request
New	**AVS-DEVKIT-AS5216**	Developer Kit consisting of: PCB-IO-EXT-BES Printed Circuit Board for connection to Avantes Spectrometers with AS5216 electronics boards, to easily control and connect signals to the IO connector. IC-IOEXT-DB26 connection cable to connect the board to DB26 connector.	on request
New	**AVS-DEVKIT-ASC5216**	Developer Kit consisting of: PCB-IO-EXT-BES Printed Circuit Board for connection to Avantes Spectrometers with ASC5216 electronics boards, to easily control and connect signals to the IO connector. IC-IOEXT-ST40 connection cable to connect the board to ST40 connector.	on request
New	**AVS-DEVKIT-MINI**	Developer Kit consisting of: Breakout board Board for connection to Avantes Spectrometers type AvaSpec-MiniXXXX, to easily control and connect signals to the IO connector. HDMI connection cable to connect the board to HDMI IO connector on the AvaSpec-Mini. Conversion table with connections on the breakout board.	on request
New	**IC-ST36-2-OPEN**	Interface cable 36 pole for AvaSpec-ULSi, 2 meter open end	on request

	BUNDLES / APPLICATIONS		
		Color Measurement Bundles	
	Ava-Color-A	Color measurement bundle, consisting of AvaSpec-ULS2048-USB2, grating BB (360-780 nm), 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 reference tile	on request
	Ava-Color-B	Color measurement bundle, consisting of AvaSpec-ULS3648-USB2, grating BB (360-780 nm), 100 µm slit, AvaSoft-Full and AvaSoft-Color, AvaSphere-50-LS-HAL, FC-UV200-2-ME, and WS-2 white reference tile	on request
		UV/VIS Absorbance Measurement System/Bundle	
New	**AvaAbsorb-2048L-HAL**	UV/VIS absorbance measurement system with integrated AvaSpec-ULS2048L, DUV400, slit. AvaLight-HAL, integrated dual beam cuvette holder	on request
	Ava-Absorbance	UV/VIS absorbance measurement bundle, consisting of AvaSpec-ULS2048-USB2, grating UA (200-1100 nm), DUV, 25 µm slit, DCL-UV, OSC-UA, AvaSoft-Full, AvaLight-DH-S, FDP-7UV200-VAR dip probe	on request
		Irradiance Bundle	
	Ava-Irrad-A	UV/VIS/NIR irradiance measurement bundle, consisting of AvaSpec-ULS2048-USB2, FC/PC entrance, grating UA (200-1100 nm), DCL-UV/VIS, DUV, 25 µm slit, OSC-UA, AvaSoft-Full and AvaSoft-Irrad, IRRAD-CAL-UV/VIS, FC-UVIR200-2-ME-1FC/PC, CC-VIS/NIR	on request
	IRRAD-CAL-UV	Irradiance calibration service UV range (200-400 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full, AvaSoft-Irrad and -SR fibers	on request
	IRRAD-CAL-VIS	Irradiance calibration service VIS range (360-1100 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full and AvaSoft-Irrad	on request
	IRRAD-CAL-NIR	Irradiance calibration service NIR range (1100-2500 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full and AvaSoft-Irrad	on request
	IRRAD-CAL-UV/VIS	Irradiance calibration service UV/VIS range (200-1100 nm) per channel, FC/PC connector recommended, including NL-calibration, needs AvaSoft-Full, AvaSoft-Irrad and -SR fibers	on request
		LED Measurements	
	Ava-LED	LED measurement bundle, consisting of AvaSpec-ULS2048-USB2, FC/PC entrance, grating VA (350-1000 nm), 25 µm slit, DCL-UV/VIS, OSC, AvaSoft-Full and AvaSoft-Irrad, IRRAD-CAL-VIS, FC-UVIR600-2-ME-1FC/PC, AvaSphere-50-IRRAD, AvaSphere LED adapter	on request
	Ava-ILEDA/B	Average LED measurement bundle for condition A and B, consisting of AvaSpec-2048-USB2, FC/PC entrance, grating VA (350-1000 nm), 25 µm slit, DCL-UV, OSC, AvaSoft-Full and AvaSoft-Irrad, IRRAD-CAL-VIS, FC-UVIR600-2-ME-1FC/PC, ILED-A and ILED-B tube, AvaSphere, 5 mm LED adapter	on request
		Thin Film Measurements	
	Ava-Thinfilm	Thinfilm measurement bundle, consisting of AvaSpec-ULS2048-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, thinfilm stage and thinfilm standard	on request
	AvaSoft-Thinfilm	AvaSoft thinfilm application software	on request
	Thinfilm-Stage	Stage to hold reflection probe	on request
	Thinfilm Standard	3 Thinfilm Si-SiO2 wafer parts in housing, one reference and 2 samples, including calibration sheet	on request
	Thinfilm Standard-Multilayer	3 Thinfilm Si-SiO2 wafer parts in housing, one reference and 2 samples with 3 and 5 layers, including calibration sheet	on request
		Coating Processes in Vacuum Chambers	
	Ava-Vacuum	Vacuum measurement system, consisting of AvaSpec-ULS2048-USB2, grating UA, slit-50, DUV coating, DCL-UV, OSC-UA, AvaSoft-Full, AvaLight-DH-S, FCR-7UV200-2-ME reflection probe, FC-UV600-2, FC-UV200-2, FC-VFT-UV200, FC-VFT-UV600, and 4 interconnects	on request
		Gemology Measurements	
	Ava-GEM	Gemology measurement system, consisting of AvaSpec-ULS2048-USB2, grating VA (350-1000 nm), 25 µm slit, DCL-UV, OSC, AvaSoft-Full, AvaSphere-50-LS-HAL, PS-24V/1.25A, FC-UV600-2, AvaSphere-50-HOLD, and WS-2-GEM	on request
	AvaSphere-50-HOLD	Holder to position WS2-GEM in the center of AvaSphere-50-REFL sample port	on request
		Fluorescence Measurements	
	Ava-Fluorescence	Fluorescence setup, consisting of AvaSpec-ULS2048L-USB2, grating VA, slit-200, DCL-UV-200, OSC, AvaSoft-Full, AvaLight-LEDxxx and power supply, and FCR-UV200/600-2-IND with FCR-FLTIP-IND fluorescence probe	on request
		Biomedical Applications	
	Ava-Biomedical	Biomedical setup, consisting of AvaSpec-ULS2048-USB2, grating NB, slit-50, OSF-475, AvaSoft-Full, AvaSoft-CHEM, AvaLight-HAL and power supply, FCR-7IR200-2-MS-PK-S, and WS-2	on request