

## High-resolution plasma measurement



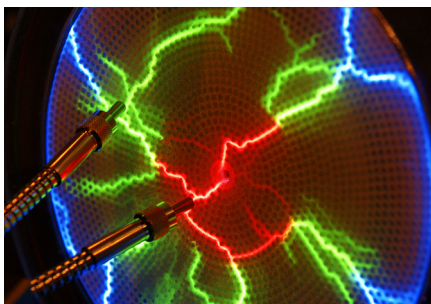
Plasmas are known for many emission peaks, located closely together. To separate these peaks, Avantes has developed multichannel spectrometers. This 200 to 960 nm quad-channel spectrometer boasts an optical resolution of 0.22-0.28 nm, four times better than a standard AvaSpec-ULS2048CL-EVO covering the same range. In AvaSoft spectroscopy software, the four channels are combined as if you were working with only one spectrometer.

Typical applications:

- Semiconductor industry
- Solar cells
- Razor blades
- Fusion reactors
- Glass & coatings

<b>Spectrometers</b>	4-channel desktop housing 4 x AvaSpec-ULS2048CL-EVO	Gratings: • UC (200-450 nm), 0.28 nm • VC (450-680 nm), 0.26 nm • NC (660-830 nm), 0.24 nm • NC (820-960 nm), 0.22 nm  All channels come with 10 µm slit, DCL-UV/VIS-200 detector collection lens & OSF-600 order-sorting filter (where needed)
<b>Fiber optics</b>	FC4-UVIR400-2-ME	
<b>Software</b>	AvaSoft-Full SPECline-A	

## Extreme high-resolution plasma measurement



For even higher resolution than the above-mentioned quad-channel spectrometer, this version features eight channels, with an optical resolution of up to 0.09 nm. The wavelength range is 200-1070 nm, which means it detects from ultraviolet, through visible, up to near-infrared light.

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The system is delivered in a 19" rack-mountable enclosure.

<b>Spectrometers</b>	8-channel 19" rackmountable enclosure 8 x AvaSpec-ULS2048CL-EVO	Gratings: • UE (200-300 nm), 0.13 nm • UE (300-390 nm), 0.12 nm • UE (380-460 nm), 0.11 nm • UE (460-530 nm), 0.10 nm • VE (530-588 nm), 0.09 nm • VE (570-620 nm), 0.09 nm • NC (620-780 nm), 0.24 nm • NC (780-930 nm), 0.22 nm  All channels come with 10 µm slit, DCL-UV/VIS-200 detector collection lens & OSF-600 order-sorting filter (where needed)
<b>Fiber optics</b>	FC8-UVIR400-2 multi-furcated fiber	
<b>Software</b>	AvaSoft-Full SPECline-A	