

**NEW**

# AvaSpec-HERO SensLine

The AvaSpec-Hero is the top of the line spectrometer!

Based on High Sensitivity Compact optical bench (f=100mm; NA=0.13) and a 1024x58 backthinned CCD detector, it offers the best of both worlds: Sensitivity and Resolution!

The instrument is equipped with a TE Cooling enabling long integration times in low light applications. In conjunction with our AS7010 electronics, including a high end AD convertor, noise is kept to a minimum, which offers you an excellent Signal to Noise and Dynamic Range performance. A selection of gratings and slits offers you the flexibility of configuring the instrument for a wide range of applications in the 200-1160nm range.

From low light fluorescence applications to demanding Raman applications, the AvaSpec-Hero is your ideal companion.

With the high speed USB3.0 and Gigabit Ethernet communication interface, the connection to your computer is fast and simple.

Of course the Digital IO ports enabling external triggering, control of shutters, and pulsed light sources are available as well.

The combination of all the above makes the AvaSpec-Hero your ideal companion for all your spectroscopic measurements.

## AvaSpec-HERO



### Technical Data: AvaSpec-HSC1024x58TEC-EVO

<b>Optical Bench</b>	HSC Symmetrical Czerny-Turner, 100 mm focal length, NA: 0.13
<b>Wavelength range</b>	200-1160 nm
<b>Resolution</b>	0.5-20 nm, depending on configuration
<b>Stray-light</b>	0.5%, depending on the grating
<b>Sensitivity</b>	375,000 counts/ $\mu$ W per ms integration time
<b>Detector</b>	CCD array image sensor with one stage TE Cooled, 1024 pixels
<b>Signal/Noise</b>	1000:1
<b>Dynamic Range</b>	30.000
<b>AD converter</b>	16-bit, 250 kHz
<b>Integration time</b>	5.2 ms- 60 minutes
<b>Interface</b>	USB 3.0 high-speed, 5 Gbps Gigabit Ethernet 1 Gbps
<b>Digital IO</b>	HD-26 connector, 2 Analog in, 2 Analog out, 3 Digital bi-directional, trigger, sync., strobe, laser.
<b>Power supply</b>	12VDC, 2A
<b>Dimensions, weight</b>	185 x 161 x 185mm, 450 grams

\* Release date for this instrument is August 2016

**The new AvaSpec-HERO is the answer for those who are in need of high resolution and high sensitivity!**