

DField-VS-A1 / A2 / A3

DField-VS-A1/A2/A3 Cooled Spectral CCDs

Scientific CCD readout heads for weak-signal spectroscopy across 200–1100 nm. Select A1 for UV-sensitive acquisition, A3 for near-infrared sensitivity or the deeply cooled A2 for low-light integration.

Best suited to: Spectrograph readout for Raman, fluorescence and emission measurements.



Configuration

Match active width and pixel pitch to the spectrograph focal plane. Compare cooling at the stated ambient temperature and distinguish a camera sensor array from a complete fibre spectrometer.

Specifications

Published parameters	
Wavelength interval	200–1100 nm
A1/A3 integration	10 ms–30 min
A1/A3 dynamic range	9000
A1/A3 supply	12 V DC
A1/A3 size / weight	99 × 119 × 78 mm / 1 kg

Published sensor configurations

Model	Pixels	Pixel pitch	Cooling at 25 °C ambient
DField-VS-A1	2048 × 122	12 µm	–10 °C
DField-VS-A2	2000 × 256	15 µm	–60 °C
DField-VS-A3	2048 × 64	14 µm	+5 °C

Measurement features

- 16-bit acquisition over USB 2.0.
- Spectral binning for signal collection.
- A1/A3 trigger input and shutter-control output.

Configuration note

The A1/A3 headline cooling statement is generic; this comparison follows the model-specific table. DField-VS-A4 remains available on its existing product page.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/dfield-ccd