

IsCMOS / SIC Series

IsCMOS Intensified Scientific Cameras

An intensified, cooled sCMOS assembly for nanosecond gated imaging and spectroscopy. A fibre faceplate couples the intensifier to a 2048 × 2048 scientific sensor, with integrated delay and gate control.

Best suited to: Time-gated plasma emission, LIBS and weak transient luminescence.



Configuration

Choose photocathode response and intensifier diameter before selecting the spectrograph flange. Photocathode efficiency and readout-sensor efficiency describe different stages of the optical chain.

Specifications

Published parameters	
Readout array	2048 × 2048; 6.5 µm pixels
Sensor peak QE	>95% at 600 nm, readout sensor only
Minimum optical gate	≤3 ns; VN configuration differs
Gate / delay step	10 ps
Delay range	0–10 s
Readout depth	16 bit
Full-frame rate	40 fps typical
Interface	USB 3.0
Cooling	35 °C below ambient

Measurement features

- 18 or 25 mm intensifier configurations.
- Integrate-on-chip operation at up to 300 kHz gate synchronisation.
- Binning, ROI and delay stepping for repeated events.

Configuration note

Spectral response depends on photocathode: UV/UVB 190-800 nm, VN 400-900 nm, BB 200-900 nm. Gate repetition rate is not the camera frame rate.

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