

FC Series

FC Ultrafast Framing Cameras

A beam-splitting camera assembly records two, four or eight gated images from one event. Single-exposure and four-channel double-exposure configurations address different frame-count and timing requirements.

Best suited to: Non-repeatable combustion, discharge, detonation and plasma events.



Configuration

Provide the required number of images, exposure and interval for every frame. Eight frames from four double-exposure channels have a different timing sequence from eight independent channels.

Specifications

Published parameters	
Single-exposure channels	2, 4 or 8
Double-exposure platform	4 channels, 4 or 8 images
Typical spatial resolution	≥25 lp/mm
Optical gate	3 ns–DC, configuration dependent
Intensifier diameter	18 mm
VIS response	380–850 nm
UV response option	200–400 nm

Framing configurations

Model	Optical channels	Images per event
FC-2-S-VIS/UV	2	2
FC-4-S-VIS/UV	4	4
FC-4-D-VIS/UV	4, double exposure	4 or 8
FC-8-S-VIS	8	8

Measurement features

- Independently timed intensified channels.
- Visible and ultraviolet configurations.
- Integrated acquisition and timing software.

Configuration note

The narrative specifies intervals down to 1 ns. In four-channel double-exposure operation, the fourth-to-fifth image gap is at least 250 ns. The source summary table contains inconsistent timing values; confirm the full timing sequence.

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