



ROSS 1000 Streak Camera

The ROSS 1000 Streak Camera is our synchroscan streak camera. This camera is suitable for a wide variety of applications requiring accumulation of fast signals which operate at a constant frequency. Examples include visible beam diagnostics in particle accelerators, and measuring the time response of pulsed laser interactions in materials characterization and FLIM studies.

SYDOR ROSS 1000:

KEY PERFORMANCE PARAMETERS

STREAK TUBE

Temporal resolution	2 picoseconds
Photocathode Dimensions	2 mm x 8 mm
Photocathode Type	S20 - Others available
Accelerating Electrode Type	Mesh
Spatial Magnification	2
Screen Phosphor	P43
Image intensifier	Single or Dual stage MCP

ELECTRONICS

Sweep Repetition Frequency	Up to 4 MHz
Synchroscan Frequency	76 MHz, 100 MHz, 250 MHz - Other frequencies available
Sweep Speeds	Multi-speed sweep modules available for picosecond, nanosecond, and microsecond timescales
Trigger Jitter	Better than temporal resolution

RECORDING SYSTEM

Resolution	782 x 582, 1392 x 1040 - Others available
Coupling	Lens or Fiber Optic
A/D	12 bit
Frame Rate	To 30 frames per second

PHYSICAL DATA

Dimensions	12"W x 12"H x 15"L
Input Power	120/240 VAC 50-60 Hz

SOFTWARE

Compatible Computer OS	ROSS_App Windows XP
Functions, Features	Full control of streak camera, acquisition and display of streak image, image processing, file storage and file exportation.

Specifications subject to change