



ROSS 8600 X-Ray Streak Camera

The ROSS Ultrafast X-Ray system delivers high precision and accuracy enabling single secondary electron detection and world-class performance in the most demanding applications.

SYDOR ROSS 8600 (WITHOUT OCM):

KEY PERFORMANCE PARAMETERS

STREAK TUBE

	Photonis P860
Temporal resolution	<1 Picosecond
Spatial resolution	20 lp/mm @ 50% contrast
Photocathode Size (Physical)	10 mm
Photocathode Type (Changeable)	Various foils and crystals available; consult Sydor for details
Accelerating Electrode Type	Slot
Spatial Magnification	1.5
Screen Phosphor	P43 on fiber optic window

ELECTRONICS

Sweep Speeds	2 Speeds: 500ps, 2ns; other ranges available
Trigger Input Voltage Level	TTL
Trigger Input Rise Time	< 10ns
Trigger Jitter	< 70 picoseconds rms
Hold-off Time	25 milliseconds
Trigger Input Width	300ns < Trigger Width < 1ms
Voltage Stability	+/- 0.02% Closed Loop (-15kV Cathode Supply) +/- 0.1% Closed Loop (Bias & Sweep Supplies)

RECORDING SYSTEM

	SI-800 TE Cooled Camera Fiber Relay, E2V chip 2048 x 2048 pixels @ 13.5 mm ²
Dark Current	< 0.1 electrons/pixel/second at -35°C
System Noise	< 5 electrons/pixel
Full Well	>= 90,000 electrons, 1x1 binned
Coupling	1:1 Fiber relay directly bonded to CCD;

PHYSICAL DATA

Dimensions	9"W x 9"H x 38.8"L (Air bubble)
Input Power	+28 Volts DC power
Shielding	Extensive mu-metal EMI shielding
Computer Interface	Serial over optical fiber (MPX)

SOFTWARE

	ROSS_App
Compatible Computer OS	Windows 2000 or 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 at any time

FOR MORE INFORMATION PLEASE CONTACT US AT: (585) 427-9112

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