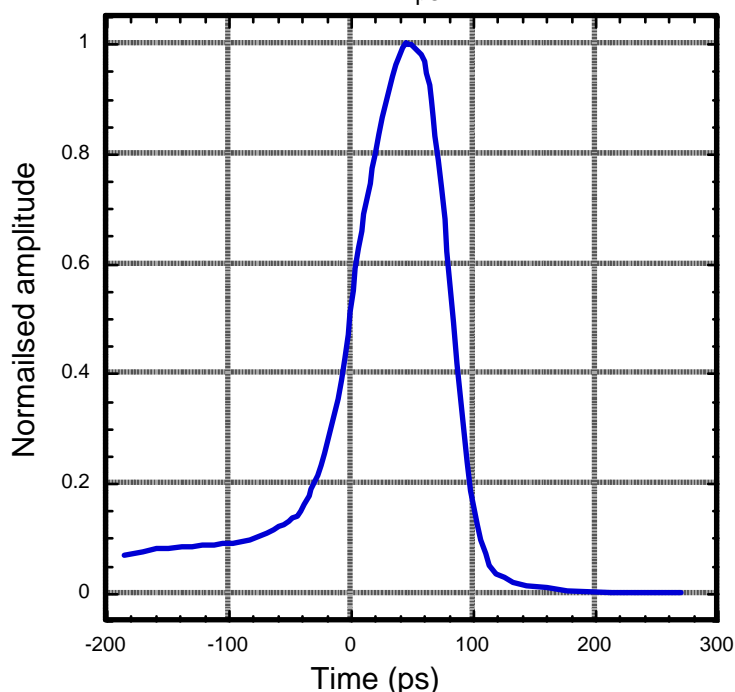




Applications

- Ultra high speed photography.
- Laser plasma interactions
- Imaging LIDAR
- FLIM
- Imaging through scattering media

Channel 1(a) shortest Gate 84ps
After correction for a 40ps Laser diode probe pulse this gives
74ps



Summary

- A fast gated image intensifier.
- Fast gate widths from 80ps to 5ns
- Slow gate widths from 200ns to 1ms
- DC mode for setting up
- Adjustable gain
- Choice of photoathode responses S1, S20 S20 with extended red.
- Remote control via RS232 or Ethernet. USB on request.
- Available with one or two channels in a single 19 inch rack unit.
- Available with removable processor card for security sensitive applications.

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SPECIFICATIONS

Gate widths fast	80ps to 5ns
Gate widths slow	200ns to 1ms
DC mode	Yes - timeout after 5 seconds for safety.
Gain adjustment	Several orders of magnitude - standard MCP characteristics.
Remote control	Ethernet, RS232, [USB to special order]
Jitter - single channel	SD ~ 4ps
Jitter channel to channel	SD ~ 2ps
Minimum trigger delay	~ 54ns in fast mode, 65ns in Medium mode ~ 104ns in Slow mode
Trigger input - single channel*	5 volts into 50 Ω , rising in <5ns
Trigger input - multi channel*	500 volts into 50 Ω , rising in ~500ps
Repetition rate	Up to 100Hz
Built in low jitter delay	0 to 50ns in ~25ps steps
Spatial resolution	~20 line pairs per mm

* For the multichannel unit a separate trigger module is available that delivers four 500 volt outputs from a single 5 volt input. See upper 19 inch module in system photograph.
Single channel units have a 500 volt trigger loop through on the front panel. This can be used as an alternative trigger input for use with our multichannel trigger module. In this case the channel to channel jitter will be as the multichannel units.

Indicators, connectors and controls

AC power	Rear panel rocker
AC power indicator	LED
Trigger input	BNC
Trigger indicator	LED
Power	100-240V ac 50/60Hz
Physical - control unit	19" rack mount, 3U, 550mm deep
Length of umbilical from control unit to head	3m.
The umbilical is capable of being disconnected for installation purposes.	

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