

Model 43120

XCON Trigger System

Trigger amplifier + delay generator + pulsed event timer all in one easy to use, compact unit



Features: For use with Flash Radiographic Systems

- Local and remote computer control
- Standard Lab View Control Software supplied with each system
- Wireless capable
- Timing reproducibility +/-10nsec
- LCD display
- Push button, rotary knob, and numeric keypad data entry
- Independent threshold voltage and polarity settings for triggering, PET Start, and PET Stop
- All inputs +/- 2v to +/-200v
- Built-in command fire button
- Ethernet communication
- Dual trigger outputs for orthogonal x-ray pair images
- 10v Monitor output

FEATURES:

The L-3 Communications Pulse Sciences 43120 XCON (X-ray Controller) combines three of the old units into a single unit for greater flexibility and ease of use.

- **Trigger Amplifier:** Upon triggering the unit a High voltage (2500 Volt) pulse is generated at the back of the device and a low voltage (-10 volt) monitor pulse is provided on the front panel.
- **Delay Generator:** Allows the user to delay the firing of the trigger amplifier by a select amount of time. It also allows the user to select the trigger threshold voltage and polarity level to avoid accidental triggering in an electrically noisy environment.
- **Pulsed Event Timer:** (PET) to accurately and reliably measure time intervals between events associated with high electromagnetic and RF interference signal. It is designed for use with L-3 Communications Pulse Sciences Flash X-ray Systems

SPECIFICATIONS:

User Trigger Input Pulse

Voltage +/- 2v to 200v into 50 ohms Protected to 250 volts

Trigger Output Monitor

Voltage -10v nominal

Trigger Output Pulse

Voltage -2500 volts (nominal) 2 parallel connectors provided on back panel
 User Delay 0 - 1000 ms User set in 100 ns increments
 Internal Delay <400ns From external trigger to output of pulse generator
 Jitter +/- 10ns max—3.5ns RMS

Pulsed Event Timer – Start Pulse

Voltage +/- 2v to 200v into 50ohms Protected to 250 volts.

Pulsed Event Timer – Stop Pulse

Voltage +/- 2v to 200v into 50 ohms Protected to 250 volts

Pulse Interval Timer

Time Range. 0 - 1000ms
 Timer Res. 10ns

Physical Size-Standard 19" Rack Mount

Power 100 - 240volts, 50/60 Hz
 H x W x D 3.5" x 19" x 13" Weight approximately 8.0 pounds

TYPICAL FXR RANGE INSTRUMENTATION WITH MODEL 43120

