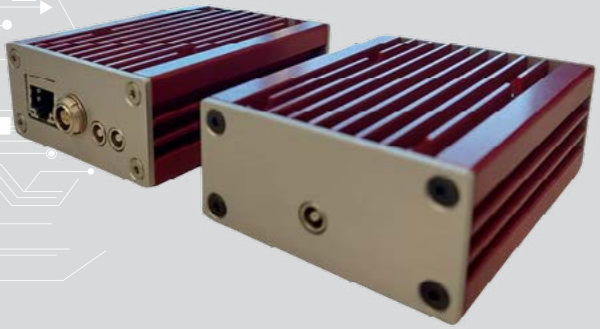
ES SYSTEMS
Sensors • IoT

TRANSIENT RECORDER

ES-LiDAR50

Dual channel transient Recorder



ES Systems has developed a powerful dual channel transient recorder designed for capturing data in optical signal detection. Delivers exceptional dynamic range and high temporal resolution, even at rapid signal repetition rates.

With the integration of photon counting and analog waveform capture, the ES-LiDAR50 is the ideal solution for a variety of applications such as: LiDAR, High energy / particle physics, ToF and much more.

The **ES-LiDAR50** Transmit Recorder features a fast transient digitizer with onboard signal averaging and dual laser trigger source, ensuring accurate data acquisition.

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Specifications

Analog Signal Acquisition	16Bit 50MS/s
Photon Counting rate	500MHz
Pre - Trigger	Any number of bins between 1 - 32.767
Repetition Rate	1.5 kHz
Acquisition Mode	Single Shot, Shot Averaging up to 64k Shots
Extra information	Standard Deviation for all Bins
Bandwidth	DC-20MHz for Analog 1GHz for Photon Counting
Input Impedance	50Ω
Coupling	DC
Protection	Diode Clamped
Max Count rate	500 MHz, no Deadtime or Overlap Between Range Bins
Discriminator Threshold	0...2,5V, 16.384 Levels, Software-Controlled
Trigger Jitter	< 1,0 ns
Signal Input	Lemo, 50Ω Front Panel
Trigger A	Lemo, any pulse input
Trigger B	Lemo, any pulse input
Power Supply	Dual supply +5.0V 900mA -5.0V 40mA
Data Interface	Gigabit Ethernet (GbE)

TÜV NORD CERT GmbH ISO 9001

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