



CELERITOUS

DESIGNING THE FUTURE

LPD2001 Laser Position Detector



A fully integrated, all digital 2D Laser position instrument.

Uses Include:

Precision Beam Position Measurement
Beam Parameter measurement
Beam Centering / Boresighting
Automatic Beam Alignment
Surface Deflection Measurements

Compatible with:

Quadrant Detectors
2D Duolateral Detectors
2D Tetralateral Detectors

Fully Integrated

Detector Electronics,
Display, Analog Output,
Multi-Channel,
CW or Pulsed Beam
All-in-one compact unit.

Features Include:

All Digital – No Analog Dividers
10 Bit resolution

1 or 4 channels
Digital position display in mm
Normalized Analog Output
X - ± 1 V into 50 Ω
Y - ± 1 V into 50 Ω
SUM 0-1V into 50 Ω
CW or Pulsed Beams
Background subtraction in Pulsed Mode
Pulsed sample rate
1 Channel - 800Hz
4 Channel - 200Hz
Large, Backlit LCD Display
Adjustable Display Backlight, Contrast
X, Y output inversion
Adjustable 1-100 gain on each channel
Universal AC Supply (85-220Vac 50/60 Hz)

Celeritous Technical Services, Corp
5109 82nd St #7 PMB1200
Lubbock, TX 79424
<http://www.celeritous.com>

800-687-6510
806-793-0708
FAX 806-793-0710
sales@celeritous.com



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Configuration Notes

1. Currently all channels must use the same type and size of detectors (quad, duolateral or tetralateral).
2. Each detector must have an amplifier pod configured for that detector family. Pods come with a 5' cable standard. A 10' cable is also available. Detectors connect to the amplifier pods with a 1' cable.
3. All channels are either in CW or Pulsed mode. User may select rising or falling edge of Sync Input pulse for pulsed beam presence. Background light is sampled on opposite edge.
4. User may provide their own detectors or purchase detectors. Detectors are housed in a 1"x 1"x 2" Plastic enclosure with DIN cable and 8-32 threaded stud for standard optical posts.

Ordering Information:

Instrument

Unit and detectors are sold separately. Users may connect to existing detectors with appropriate detector pod.

LPD2001-1 Single Channel Instrument
LPD2001-4 Four Channel Instrument¹

Amplifier Pods

LPD2001-Q for Quad Detectors
LPD2001-T for 2D Tetralateral Detectors
LPD2001-D for 2D Duolateral Cells

Detectors

LPD2001-10MQ 10mm Quad Cell ($\pm 5\text{mm}$)
LPD2001-3MQ 3mm Quad Cell ($\pm 1.5\text{mm}$)
LPD2001-10MT 10mm Tetralateral ($\pm 5\text{mm}$)
LPD2001-3MT 3mm Tetralateral ($\pm 1.5\text{mm}$)

Other detector types and sizes available upon request.



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