NEW

CL-90 Compact Lidar Scanner

Survey-grade OEM lidar sensor that employs proven technology in a compact sensor design for integration with UAV platforms.
THE CL-90
COMPACT LIDAR SCANNER

The CL-90 is the first of a new line of survey-grade OEM lidar sensors from Teledyne Optech that employ proven technology in a compact sensor design for UAV platforms.

Available as a transceiver for system integration, the CL-90 enables high-quality data in complex environments for discriminating surveyors. Whether it is a deep open-pit mine, or an obscured ruin in dense jungle, or an electrical sub-station, the CL-90 delivers maximum resolution with high measurement precision and accuracy for uncompromising data quality.

Applications
» Forestry and Agriculture
» Powerlines and Utilities
» Topo and Right of Way Mapping
» Geomorphic Hazards Mapping
» Stockpile and Open Pit Mining
» Construction Site Monitoring
» Asset Mapping, Inspection and Monitoring
» Archeological Exploration and Heritage Site Documentation

Key Features and Benefits
» Superior vegetation penetration for excellent ground coverage
» Long-range performance for maximum productivity at UAS ceilings
» Best-in-class data precision for tight-tolerance applications
» Programmable FOV for maximum point density and application flexibility

Can’t See the Ground for the Trees?
Whether it is an obscured ruin in dense jungle, or a pipeline easement requiring a detailed ground model, the CL-90 delivers superior canopy penetration to get points on the ground where you need them most.

Data Too Noisy?
Tight-tolerance engineering applications demand low measurement noise. The CL-90 provides industry-leading shot-to-shot precision and survey-grade data quality for asset inspection applications, including powerline and transportation corridor mapping.

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Productivity

The CL-90’s long-range performance enables maximum area coverage rates without sacrificing data quality and vegetation penetration at UAS flight ceilings. Coupled with a unique programmable scanning FOV, the CL-90 also provides superior point density and operational flexibility.

» Performance expressed as max AGL, instead of max range (more realistic collection scenarios)

» Unique, programmable FOV enables superior density control

Note for all graphs: 10% target reflectivity; full laser footprint interception; visibility = standard clear (23 km)
Performance Highlights

» > 600 pts/m² from 120 m AGL (400 ft) and 5 m/s (64° FOV)
» Shot-to-shot precision of <1 cm for survey applications
» Maximum AGL of 650 m (20% target reflectivity)
» Narrow beam divergence of 0.3 mrad 1/e² for superior ground detection and canopy penetration.

The CL-90 is available as a kit for authorized re-sellers for integration with 3rd party INS solutions, imaging sensors and UAV platforms.

THE KIT INCLUDES:

Hardware
» CL-90
» Cable-External CL-90 Ethernet
» Cable-External Power and Control

Integrator Data Package
» Hardware Manual
» Software ICD Manual
» Mechanical ICD and Step Model
» Post Processing Software
» Realtime Control and Processing Library
» Sample Data

Ordering Information
Contact your local Teledyne Optech representative or an authorized Teledyne Optech dealer.

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