

WAVEFORM DIGITIZER OPTTECH

The world is not flat! – it consists of complex shapes with multiple reflective surfaces. When those details are absolutely critical, we've got the solution – Optech's Waveform Digitizer and accompanying analysis software.

Now you can extract all the additional details you need to make your surveys truly powerful. Optech's Waveform Digitizer produces significantly more information than a conventional lidar survey and greatly increases accuracy range measurements.

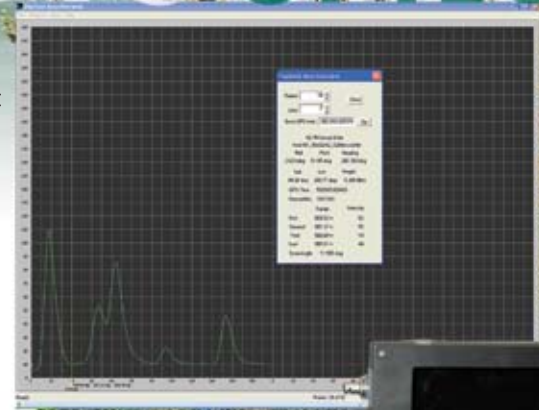
Why purchase our Waveform Digitizer?
Capture the complete return signal waveform and calculate all the returns – you get it all!

Sophisticated software-based algorithms analyze complex waveforms to give you:

- Improved accuracy
- Greater detail
- Higher resolution

Applications:

- Forestry
- Mining
- Urban planning/surveying
- Anywhere extremely high detail information is required



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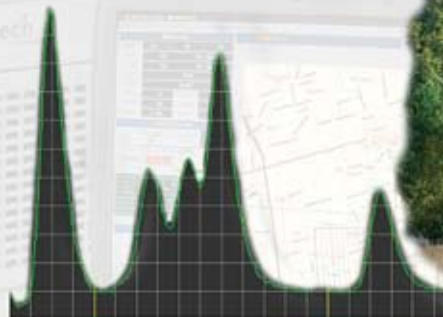
Optech's waveform digitization gives you:

- Improved range accuracy for targets with complex waveforms (e.g. forest applications)
- Specialized post-processing software for analyzing complex return waveforms
- Classification algorithms
- Captures up to 8 events (waveforms), including the outgoing pulse waveform and time intervals between waveforms. Ranges can be calculated directly from the digitized waveform data
- Operates at laser Pulse Repetition Frequency (PRF) up to 70 kHz; sub-samples at even higher PRF
- Real-time display for monitoring waveforms
- Digitizer-dedicated data acquisition computer runs in parallel with the ALTM computer
- Waveform display and analysis software synchronizes waveform data with other ALTM-acquired data

Specifications:

- Amplitude resolution: 8 bits
- Sample interval: 1 ns
- Removable disk storage capacity: 73, 146 or 300 GB

With Optech's Waveform Digitizer the world doesn't have to be flat – now you can get EVERY detail!



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