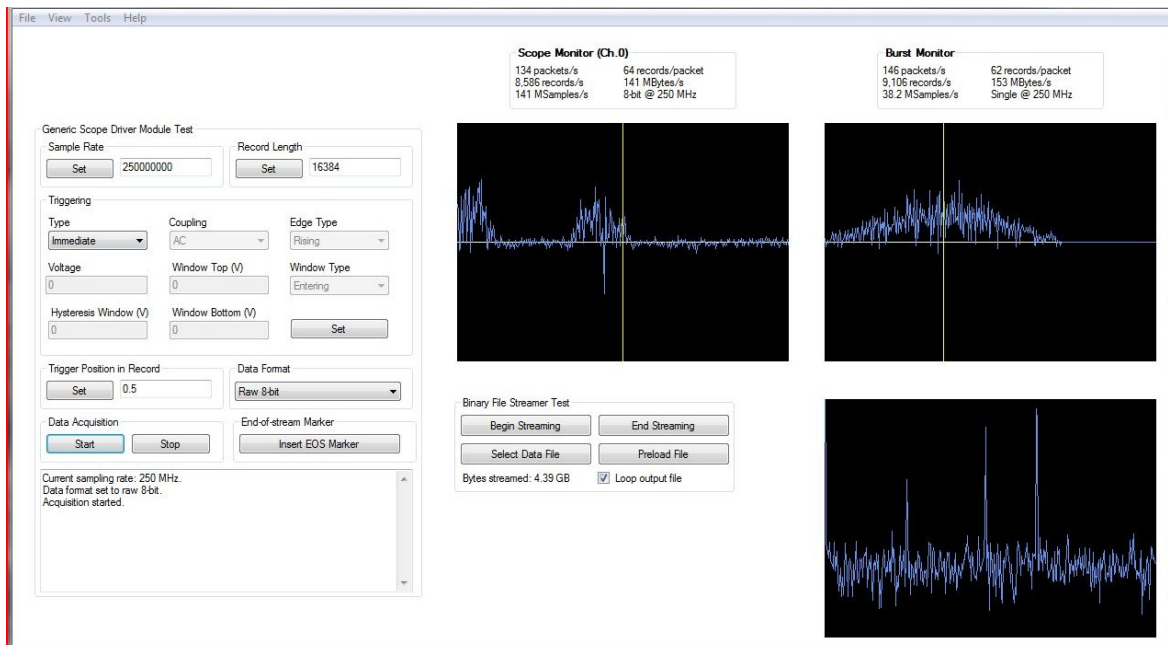


# AUR Studio™ LDV Burst Processor



## Features

- Three-component burst processor
- Proven Doppler frequency measurement algorithms provide lowest possible uncertainties for noisy signals
- Automatic burst detection algorithm
- Time-stamped outputs
- Signal validation outputs for post-processing
- Synchronization options available
- Up to 1GHz bandwidth for high speed flows
- Up to two electronic channels standard
- Optional additional channels available
- User-configurable interface and modular functionality through XML profile script
- User-defined modules may be implemented for processing or post-processing
- LabView support available



AUR Studio provides on-line user feedback. Above, three LDV signals are measured on the same data input channel using frequency division multiplexing.



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# *AUR Studio<sup>TM</sup> LDV Burst Processor*

## Specifications:

<b>Digitizer</b>	PCI-based
<b>Processing engine</b>	Rack-mount PC with quad-core processor
<b>Burst detection</b>	Gaussian envelop detector
<b>Doppler frequency measurements</b>	FFT-based, refined spectral interpolation. Includes enhancements for processing 'dual-burst' occurrences.
<b>Maximum bandwidth</b>	Up to 1GHz available
<b>Standard outputs for each burst</b>	Arrival time, Doppler frequency, Doppler velocity, signal-to-noise ratio validation parameter, primary to secondary spectral peak power density ratio, burst integral-intensity parameter
<b>Operating system</b>	Windows 7
<b>On-board storage</b>	2 TB
<b>Power requirements</b>	120VAC

## Options

- Specify the speed range needed along with your fringe spacing
- Specify the carrier frequency and configuration of your electronic channels.
- Advanced signal and data processing/post-processing modules for AUR Studio
- LabView support



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