JetServer™
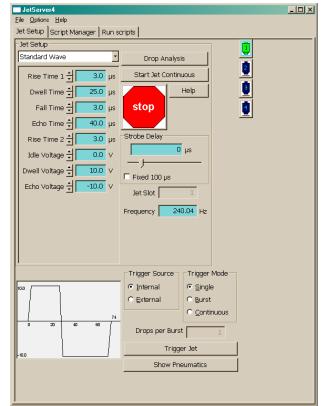
Drive Electronics Control Program

Product Description

The JetServer™ program is designed to control the JetDrive™ III family of drive electronic units. A graphical user interface is provided to set the operating parameters for MJ piezoelectric dispensing devices. These can be saved and retrieved interactively in a format fully compatible with the control program of Jetlab® Printing Platforms. Multiple MJ devices can be controlled using a multi-channel version of the JetDrive™ III or a single-channel unit multiplexed by a relay board. With optional frame grabber hardware and image processing software, automated measurements of drop diameter, drop velocity and direction in one camera view can be performed. The Windows® version of JetServer™ ships with each JetDrive™ unit. A LabView® sample version is available as an option.

Standard Features

- Graphical user interface to specify 8-parameter bipolar trapezoidal, sine, and 12- point arbitrary waveforms.

- LED strobe delay control.

- Multiple dispensing device control, including waveform storage & retrieval and control of a relay for multiplexing a single channel drive.

- Integrated into VaportJet™, SphereJet™, Jetlab® II, and the Jetlab® 4 family.
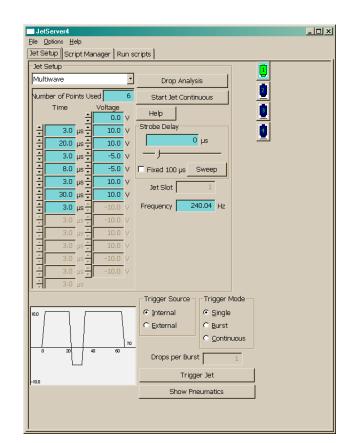
Available Options

- USB relay unit for multiplexing of a single channel output.

- Video capture board and image analysis software for automated drop measurements.

- LabView® sample program.

- Backpressure regulator; temperature controller; ultramicro balance.
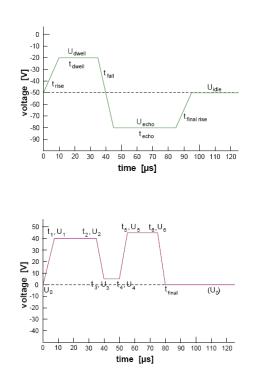
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Ordering Information

CT-M3-02   JetDrive™ III controller, and Windows® based Jetserver™ control program. Includes built in strobe delay.

CT-MX-01   Eight channel USB relay unit for multiplexing output of JetDrive™ III.

CT-MC3-4   Multichannel JetDrive™ III controller. Maximum output channels = 4.

CT-MC3-16   Multichannel JetDrive™ III controller. Maximum output channels =16.

JetServer™-L   LabView® based Jetserver™ sample program.

CT-VC-01   Sensoray video capture board, PCI.

CT-VC-02   Sensoray video capture board, USB.

CT-VC-core   Image analysis software and custom image analysis routines.

Specifications

Models controlled	JetDrive™ III, single channel (CT-M3-02) and multichannel (CT-MC3-4 and CT-MC3-16)
Waveform types	8-parameter bipolar trapezoidal, sine, and 12-point arb waveform modes.
Frequency	1 Hz - 30 kHz
Resolution	0.1 V, 1 μs, 1/(1 μs)
Pulse modes	single, burst, continuous
Waveform storage & retrieval	Yes
Multiplex multiple MJ devices with single channel driver	Optional: requires USB relay
Automated drop analysis	Optional: requires video capture board and image processing software
Strobe delay	-500 μs to +2500 μs relative to trigger
Windows® version	Ships with JetDrive™ III
Labview® version	Optional sample program available

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