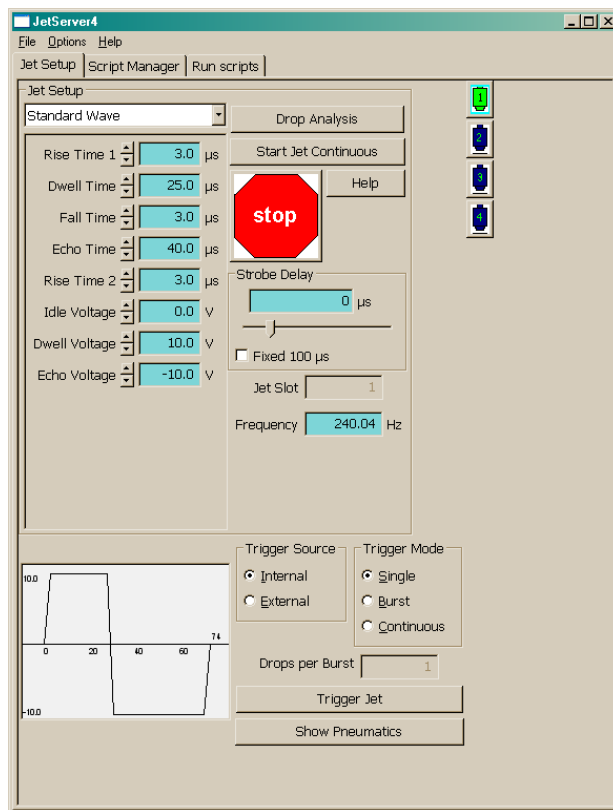


Drive Electronics Control Program

Product Description

The JetServer™ program is designed to control the JetDrive™ V & 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 version of the JetDrive™ V 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



Standard Features

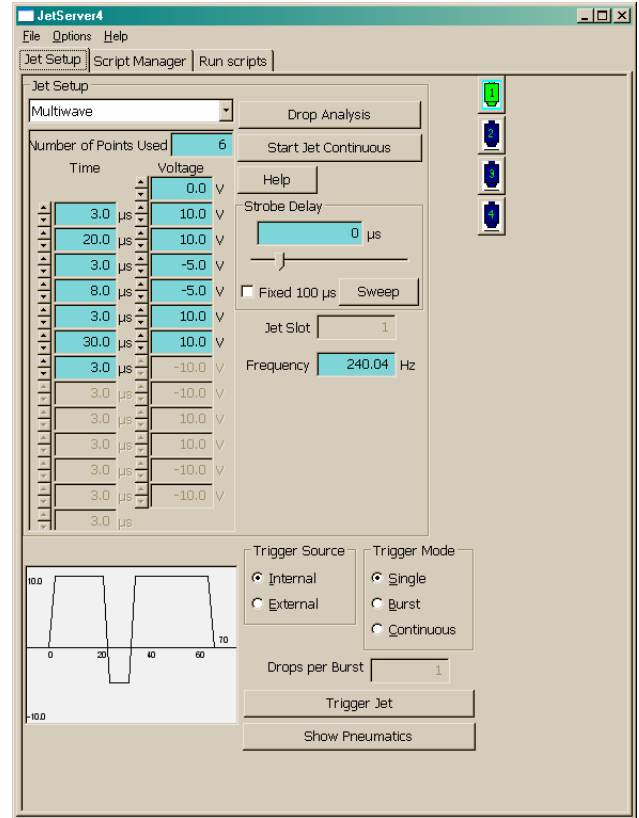
- Graphical user interface to specify 8-parameter bipolar trapezoidal, sine, and 12-point arbitrary waveforms.
- LED strobe delay control.
- Multiple dispensing device control, including waveform storage & retrieval and control of a relay for multiplexing a single channel drive.
- Integrated into VaportJet™, 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.

Ordering Information

- CT-M5-01** JetDrive™ V controller, including command set and Windows® based Jetserver™ control program. Includes built in strobe delay. Level 02 firmware (complex waveform) included.
- 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-drop** Image analysis software for drop analysis. Only



Specifications

Models controlled	JetDrive™ III, JetDrive™ V, 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

