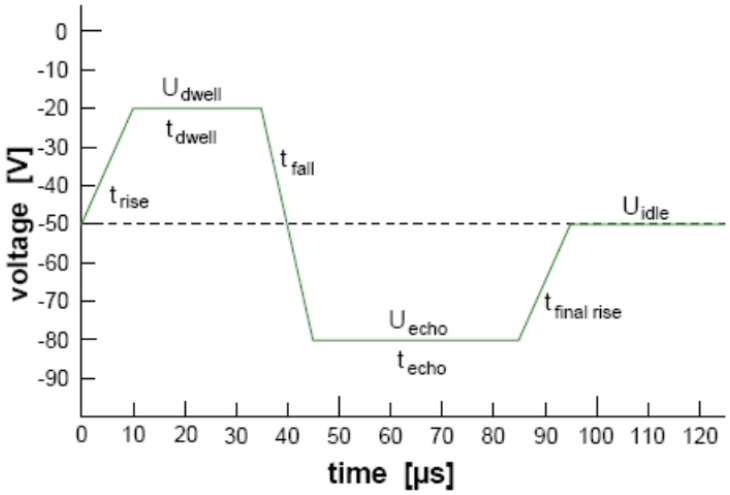
The JetDrive™ III drive electronics is designed to provide complex drive waveforms to MicroFab's MJ microdispensing devices. It is computer controlled via serial communications (RS-232) and an external trigger is provided for real-time control during printing operations. An output to drive an LED strobe for drop observations is also provided, including a delay that is controlled either through the computer interface or a knob on the front panel. A Windows® based control program (JetServer™) is provided, along with the command set for customers who want to integrate control of the JetDrive™ III into their own software. An optional LabView® sample program is available. The JetDrive™ III comes in single output and multiple output configurations.

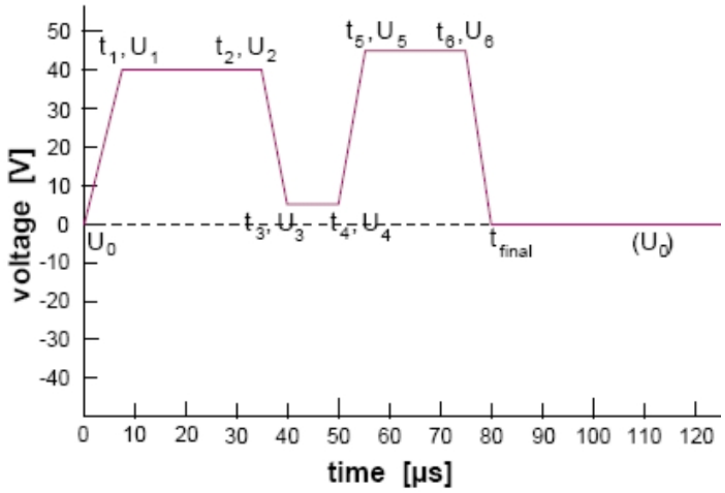
Standard Features

- Computer controlled; Windows® based control program provided, along with command set.
- 8 point bipolar trapezoidal waveform plus 12 point arb waveform mode.
- External trigger for real-time control; LED strobe output / delay.
- Integrated into VaportJet™, SphereJet™, Jetlab® II, and the Jetlab® 4 family.

Available Options

- USB relay unit for multiplexing of a single channel output.
- Multichannel units for simultaneous drive. Configurations for up to 4 and up to 16 output channels.
- LabView® sample program.





Ordering Information

CT-M3-02

JetDrive™ III 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 relay unit for multiplexing output of JetDrive™ III. External USB model.

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

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

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

CT-SI-01
Strobe delay unit and LED. 6V power supply included.

Specifications

Waveform types	8 point bipolar trapezoidal; 12 point ARB; sine
Pulse modes	single; burst; continuous
Voltages	-140 to +140 V

0.5 µs rising flank sets timing

Strobe delay	-500 µs to +2500 µs relative to trigger
Strobe output	1 TTL per 1-64 triggers
Strobe control	programmable and manual
Strobe connector	BNC
Trigger connector	BNC
RS-232 connector	9-pin female
HV connector	DIN
Power	110V or 220V (internally set)

Brochure (PDF)

CAD drawings