

## VTC1 User Notes

### VTC1 Connector

The VTC1 has a combination male, 9 pin, D-Subminiature plug with 2.1 mm power jack. This plug is designed to plug directly into a standard 9-pin remote connector of most hard disk based recorders and VTRs.

### Power

VTC1 is a low power controller that can typically be powered from the RS-422 port of the device. If an external power supply is needed, we recommend the JLCoooper PSDC117 (North America/Japan) or PSDC230 (Europe). Alternately, you can use a power supply rated for 9-12 Volts DC at 100mA or greater. The plug is a barrel connector. The center pin is 2.1mm. The polarity is center positive.



### Data

The pinout of the 9 pin, D-Subminiature plug follows the standard pinout for most hard disk based recorders and VTRs.

VTC-1	Function
2	Receive A (-)
7	Receive B (+)
8	Transmit A (-)
3	Transmit B (+)
1,4,6,9	Ground
5	No connect

### VTC-1 Pinout

## Operation

### Power Up

When the VTC-1 is powered up, the unit flashes the record LED to identify the device that it's plugged into.

Record LED	Status
● ● ● ● ●	No device detected
● ● ● ● ● ● ●	Generic device
● ● ● ● ● ● ● ● ●	Aja Ki Pro / VideoDevices PIX 250i/260i/270i
● ● ● ● ● ● ● ● ● ● ●	Fast Forward Video Micron or Omega HD
● ● ● ● ● ● ● ● ● ● ● ● ●	Datavideo DN-300/400/500 or HDR-55
● ● ● ● ● ● ● ● ● ● ● ● ● ● ●	Blackmagic Design HyperDeck Studio

### Record LED Indication

### Button functions

The following tables list the commands that the VTC1 transmits when a given button or button with Shift is pressed.

Button	Action	Shift Action
◀◀	Shuttle 2x, 4x, 8x, 16x	Skip back 10 seconds
II + ◀◀	Go Back 1 Frame	
◀	Reverse Play	Locate to 00:00:00:00
II	Pause*	Stop
▶	Forward Play	Record
▶▶	Shuttle 2x, 4x, 8x, 16x	Skip forward 10 seconds
II + ▶▶	Go Forward 1 Frame	

\* The VTC1 sends a Stop command when the device is in record mode.

### Functions for Generic Devices

Button	Action	Shift Action
◀◀	Shuttle 2x, 4x, 8x, 16x	Goto Previous Clip
II + ◀◀	Go Back 1 Frame	
◀	Reverse Play	Locate to 00:00:00:00
II	Pause*	Stop
▶	Forward Play	Record
▶▶	Shuttle 2x, 4x, 8x, 16x	Goto Next Clip
II + ▶▶	Go Forward 1 Frame	

\* The VTC1 sends a Stop command when the device is in record mode.

### Functions for Aja Ki Pro

Button	Action	Shift Action
◀◀	Shuttle 2x, 4x, 8x, 16x	Goto Previous Clip
II + ◀◀	Go Back 1 Frame	
◀	Reverse Play	Locate to 00:00:00:00
II	Pause*	Stop
▶	Forward Play	Record
▶▶	Shuttle 2x, 4x, 8x, 16x	Goto Next Clip
II + ▶▶	Go Forward 1 Frame	

\* The VTC1 sends a Stop command when the device is in record mode.

### Functions for Fast Forward Video Devices

Button	Action	Shift Action
◀◀	Shuttle 2x, 4x, 8x, 16x	Goto Previous Clip
◀	Reverse Play	Locate to 00:00:00:00
II	Pause*	Stop
▶	Forward Play	Record
▶▶	Shuttle 2x, 4x, 8x, 16x	Goto Next Clip

\* The VTC1 sends a Stop command when the device is in record mode.

### Functions for Datavideo Devices

Button	Action	Shift Action
◀◀	Shuttle 2x, 4x, 8x, 16x	Skip back 10 seconds
◀	Reverse Play	Locate to 00:00:00:00
II	Pause*	Stop
▶	Forward Play	Record
▶▶	Shuttle 2x, 4x, 8x, 16x	Skip ahead 10 seconds

\* The VTC1 sends a Stop command when the device is in record mode.

### Functions for Blackmagic Design HyperDeck

Button	Action	Shift Action
◀◀	Shuttle 2x, 4x, 8x, 16x	Goto Previous Clip
◀	Reverse Play	Locate to 00:00:00:00
II	Pause*	Stop
▶	Forward Play	Record
▶▶	Shuttle 2x, 4x, 8x, 16x	Goto Next Clip

\* The VTC1 sends a Stop command when the device is in record mode.

### Functions for VideoDevices Devices