



DV Bank Accessories

INTERVALOMETER

TL-1

INSTRUCTION MANUAL



<http://www.datavideo-tek.com>

CONTENTS

Service, Support and Warranty	2
Introduction & Features	3
Typical Installation	4
Functions Key Introduce	5
LCD Panel Introduce	6
Specifications	7

SERVICE, SUPPORT AND WARRANTY

It is our goal to make your product ownership a satisfying experience. Our Support Staff is available to assist you in setting up and operating your system. If needed, our convenient repair service is also at your disposal. Please refer to the product support information below, or write us at:

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PRODUCT SUPPORT

For information or assistance with the setup, operation, troubleshooting, or repair of your system, you may first wish to call the dealer from whom you purchased the Datavideo unit.

If necessary, please call the Datavideo Help Desk at the telephone numbers listed above

Monday through Friday, 9:00 AM through 5:00 PM local time. You may also visit our Internet site at <http://www.datavideo-tek.com> or contact our International Service Representatives via E-mail at service@datavideo.com.tw

INTRODUCTION

Datavideo's Intervalometer TL-1 is an easy to use, microprocessor based DV Bank accessory that will open up new worlds of creative, scientific, technical and business opportunities for you. Now you can have unlimited real time control of your production technology and use 'time' more efficiently and imaginatively.

What's an Intervalometer? Simply put, a video Intervalometer allows the user to determine the number of video frames the DV Bank records and how often it records them; it enables the creation of time-lapse video images. Thus, very slow activities (such as clouds moving across the sky) appear to be speeded up.

Datavideo's Intervalometer and DV Bank allow you to shoot single frame images, produce activated or general-purpose interface (GPI) triggered segments, animations and time-lapse videography. The Intervalometer allows the director/producer to "compress elapsed time" and gives you nearly unlimited creative potential because the look, style and overall effect of the final

Video can be fine-tuned:

Choose how often an image is recorded.

Select the number of frames recorded at each time interval.

The Datavideo Intervalometer manages DV Bank recording in four ways:

1. Programmed interval time/duration
2. Instant one-frame recording: just press the SINGLE FRAME record button
3. Remote activation using a general purpose interface (GPI)-trigger switch, motion or movement sensors, limit or proximity switches, or
4. With appropriate software and interface, recording can be computer actuated.

The Intervalometer and DV Bank can also be used to animate “still” images, creating “moving” images like in traditional cartoons. Again, the director/producer determines the recording time interval and the number of frames to be recorded. When the video is replayed at normal speed (30 fps) the process creates a continuous image that appears to move. The Intervalometer is exceptionally useful in creating unique opening titles, revealing data on a chart or for creating an easy to follow instruction guide for a complex process.

Datavideo’s Intervalometer opens up new worlds of creative and technical opportunities enabling you to pitch new clients and to get involved in new, exciting industries by offering unique, never-before realized creative and visual approaches to tough business, scientific and technical problems that have previously defied solution.

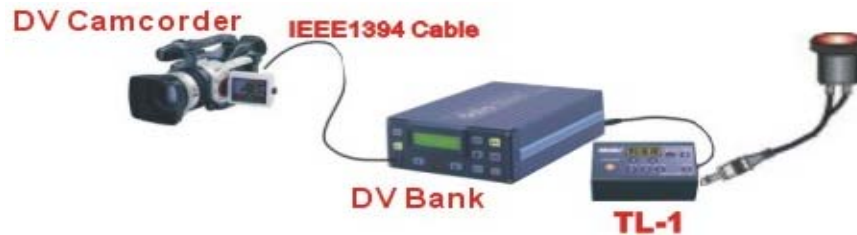
Because the DV Bank records in DV you can easily edit sequences, title or replace frames with popular software like Adobe Premiere, Final Cut Pro, Express DV...etc.

EQUIPMENT NEEDED

- Datavideo Intervalometer TL-1
- Datavideo DV Bank DN-100
- DV Camera or Video Playback Deck
- Optional- Datavideo DAC-100 Bi-Directional DV to AV Converter; if analog video camera or existing analog video tape is used

INSTALLATION

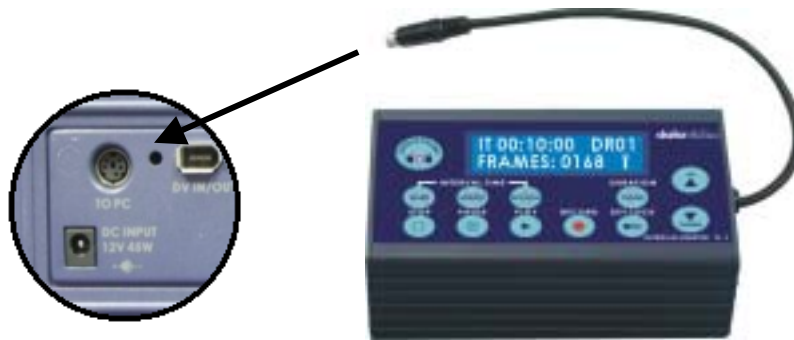
(Disconnect the power to the DV Bank first)



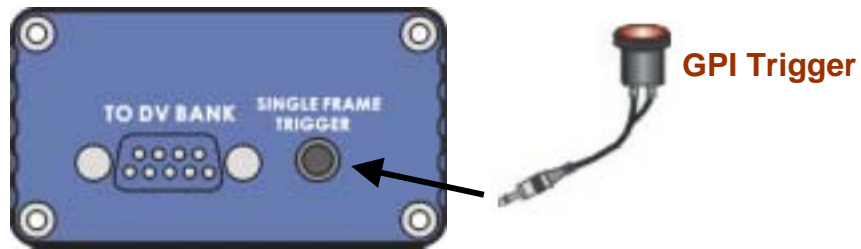
1. Disconnect power supply from DV Bank; connect the Intervalometer to it using the interface cable (supplied).
2. Reconnect power supply to the DV Bank; it will automatically run through a system check; the lighted buttons on the right front of the unit will flash. When the test is completed, press the POWER button on the DV Bank.
3. Using the UP and DOWN arrow buttons on the front of the DV Bank, choose the file (number 1-99) to store the digital video.
4. Set-up your tripod and video camera, frame and focus it on your subject.
5. Connect the DV Bank to your DV camera using a IEEE 1394 (Firewire) cable.

6. Connect the DV Bank to your video monitor, turn the monitor ON and select the appropriate mode for reviewing the video stored on your DV Bank.
7. (Optional) You can connect a wired remote (GPI) trigger to the back of the Intervalometer if you wish to record frames either manually or through a sensor, switch or other electro-mechanical device.
If you are using an analog video camera, connect the DV Bank to a Datavideo DAC-100 Bi-Directional DV to AV Converter and then connect the video camera to either the S-video or Video "IN" jacks (RCA) on the front of the DAC-100. Connect the DV Bank to the DAC-100 with a IEEE 1394 (Firewire) cable

CONNECT INTERVALOMETER TO DV BANK



CONNECT A GPI TRIGGER ADAPTOR



FRONT PANEL CONTROL



SINGLE FRAME:

Push on "SINGLE FRAME"

Button for instant Snapshot



Pause stop video playback or record



H/HOUR:

Push on "H" button to pop up an "H" on the LCD display.

Press on "UP" and "DOWN" key to select the time interval from 0 to 23 hours, press on "H" again to disable setting



Stop video playback or record



M/MINUTE:

Push on "M" button to pop up an "M" on the LCD display.

Press on "UP" and "DOWN" key to select the time interval from 0 to 59 minutes, press on "M" again to disable setting



S/SECOND:

Push on "S" button to pop up an "S" on the LCD display.

Press on "UP" and "DOWN" key to select the time interval from 0 to 59 seconds, press on "S" again to disable setting



PLAY
Playback video at 30fps (NTSC) and 25fps(PAL)



UP Control
For Interval time and recording frames setting



RECORD
Push on record button to start video recording



DOWN Control
For Interval time and recording frames setting

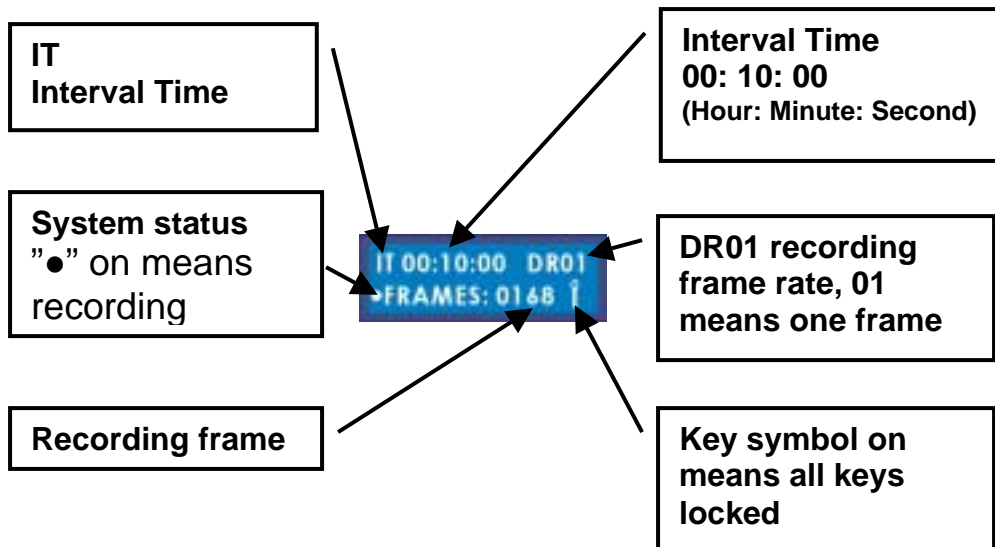


DURATION
Set the recording frames from 1 to 29 frames per Interval time recording



KEYLOCK
Disable/Enable control panel keys entry

LCD INDICATOR



PROGRAMMING THE INTERVALOMETER

- a. Choose the interval timing by pressing the HOUR, MINUTE and/or SECOND button and then press the UP or DOWN arrow buttons to select the time interval for recording.
- b. Choose the number of frames you wish to record at each interval by pressing the DURATION button and then press either the UP or DOWN arrow button to choose the number of frames to be recorded at each time interval (between 1 and 29 frames).

The Intervalometer uses the Datavideo DV Bank as its power source. Intervalometer settings need to be programmed every time power to the DV Bank is turned off or interrupted.



USING THE INTERVALOMETER

1. Press the RECORD button on the front of the Intervalometer. The Intervalometer will begin timing the session and when the appropriate time interval is reached it will send the pre-selected number of video frames (images) to the DV Bank¹. Recording will continue indefinitely as long as the camera, DV Bank and Intervalometer are connected and have power.²
2. When you've completed your recording session, press the STOP button on the front of the Intervalometer.
3. To review the video stored in the DV Bank press the MENU button until

SETUP/LOOP/PLAY appears on its LCD screen. Select this mode by pressing the UP arrow button under the LCD screen, then press it again to "ENABLE LOOP PLAY."

4. Press the PLAY button on the front of the DV Bank and the frames you recorded through your Intervalometer will play back on your video monitor.

The Intervalometer can also be used to record one frame at a time using the SINGLE FRAME button on the front.

Notes:

1. The lighted the DV Bank's RECORD button will flash once for each frame recorded in its memory.
2. During recording, the frame counter on the Intervalometer display will advance every time a video frame is recorded and the time code in the DV Bank LCD display will advance in unison as well.

SPECIFICATIONS		
INPUTS	SETTING AND RECORD	GENERAL
<ul style="list-style-type: none"> ☛ GPI inputs: Snapshot function: Active by pulse trigger 	<ul style="list-style-type: none"> ☛ Functions: Play, Pause, Stop, Record, Frame Interval time, Up, Down, Key Lock 	<ul style="list-style-type: none"> ☛ System Mechanism: Width 74 mm Depth 122mm Height 40 mm
<p style="text-align: center;">OUTPUTS</p> <ul style="list-style-type: none"> • Command output: DB9 connect to DV Bank 	<ul style="list-style-type: none"> • Frame: NTSC 1~30 frames/times PAL 1~25 frames/times ☛ Time interval: 1~59 sec 0~59 minutes 0~23 hours 	<ul style="list-style-type: none"> • Power: DC 5V/180mA Power from DV Bank • D-Sub 9-pin interface Connect to DV Bank for control Time-lapse video recording Connect to PC for software upgrade

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