

BDINSTSCOPE

- This scope is available for studies full time and plays no role in Tevatron Operations.
- The scope can Acquire ~20Gbytes of data to disk, which can then be transferred via a CDR or network connection.
- There is also capability of “real time” internal processing with results stored locally as well (for long term studies).

Short Introduction to the Scope

- Located in F0 service building electronics room.
- Tektronix TDS7154. 1.5GHz Bandwidth, up to 20GSamples/Second, 50 Ohm termination.
- Fast frame option using segmented memory
- 32 Megasamples memory depth
- LabVIEW Web Server/Control software which can be fully customized to meet individual needs.
- For full training/questions contact Eugene Lorman (x2506).

Basic Operation Information

- The scope can be set up remotely from accessing <http://bdinstscope/mytek.htm>.
- The Web Page will only let one user operate the scope at any one time.
- The triggers available are controlled by a 279 module and accessed through:
 - I:F1N8C5-provides delays from TCLK
 - T:TBSDD0-provides delays in Trevs from AA marker
 - T:RTBSMT-sets the total number of triggers to play out

MyTEK - Netscape

File Edit View Go Bookmarks Tools Window Help

http://bdinstscope/mytek.htm

MyTEK

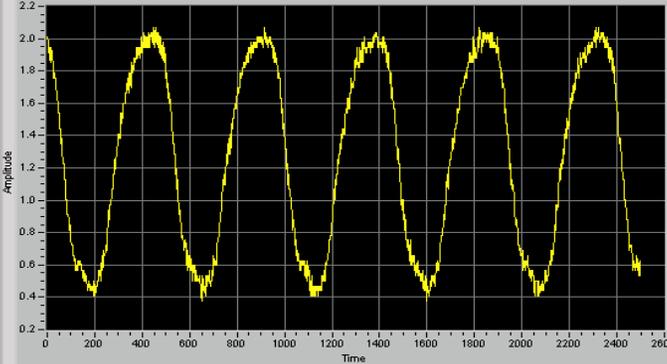
MyTEK

This VI will let you controll the Instrumentation Tektronix Oscilloscope remotely

Please use with care and contact Eugene Lorman for proper training. To request control of this VI, right click on the image, and select request control. If no one else is operating the scope, control will be granted. After you are finished. Please close this windows after you are finished so that others can use the Scope.

Operate

VISA Resource Name
% GPIB::1::INSTR



Amplitude

Time

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

Record Length: 5.0k
Scale: 5.0n
Acq Mode: SAMPLE
Sample Rate: 100.000

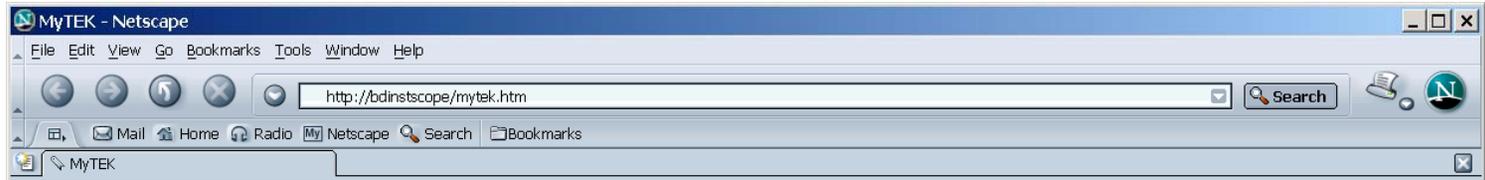
Delay: [ON]
Position: [0]
Delay Ref Point: 50.0
Delay Time: 0.0

ACQUISITIONS
RUN/STOP [ON] STARTED

STOP error out

status	code
<input checked="" type="checkbox"/>	xj0
source	

Finished Downloading



MyTEK

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Operate

VISA Resource Name
%GPIBB::1::INSTR

Request Control of VI
Release Control of VI
Show Last Message
Show Control Time Remaining
Close Panel

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

Record Length: 5.0k
Scale: 5.0n
Acq Mode: SAMPLE
Sample Rate: 100.00C

Delay: [Progress Bar]
Position: [Progress Bar]
Delay Ref Point: 50.0
Delay Time: 0.0

ACQUISITIONS
RUN/STOP STARTED

STOP error out

status	code
✓	>0
	source

MyTEK - Netscape

File Edit View Go Bookmarks Tools Window Help

http://bdinstscope/mytek.htm

MyTEK

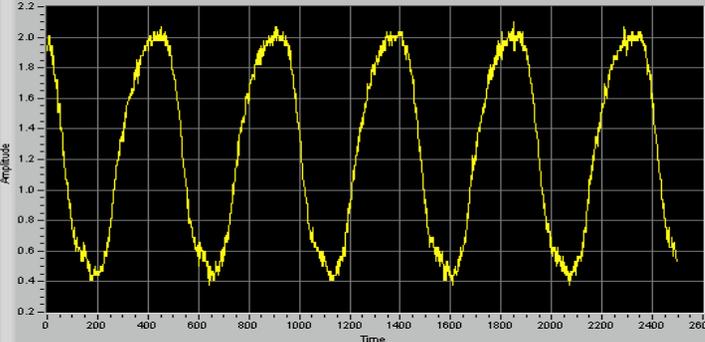
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Operate

VISA Resource Name
%GPIB8::1::INSTR



Amplitude

Time

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

Record Length: 5.0k
Scale: 5.0n
Acq Mode: SAMPLE
Sample Rate: 100.00G

Delay: [Progress Bar]
Position: [Knob]
Delay Ref Point: 50.0
Delay Time: 0.0

RUN/STOP ACQUISITIONS STARTED

STOP error out

status	code
<input checked="" type="checkbox"/>	x0

source

Control granted

Finished Downloading

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

Record Length: 5.0k

Scale: 5.0n

Acq Mode: SAMPLE

Sample Rate: 100.000

Delay: [Progress Bar]

Position: 50.00

Delay Ref Point: 50.0

Delay Time: 0.0

ACQUISITIONS

RUN/STOP [Indicator] STARTED

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

CH1	CH2	CH3	CH4
Position: 0.00	Position: 0.00	Position: 0.00	Position: 0.00
Scale: 1.0	Scale: 100.0m	Scale: 100.0m	Scale: 100.0m
Offset: 0.0	Offset: 0.0	Offset: 0.0	Offset: 0.0
Deskew: 0.0	Deskew: 0.0	Deskew: 0.0	Deskew: 0.0
Termination: 50	Termination: 50	Termination: 50	Termination: 50
Coupling: DC	Coupling: DC	Coupling: DC	Coupling: DC
Bandwidth: FULL	Bandwidth: FULL	Bandwidth: FULL	Bandwidth: FULL

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

FILE FORMAT: INTERNAL

WAVEFORM TO SAVE: CH1

SAVE

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

FastFrame: [Progress Bar]

Record Length: 5000

Frame Count: 2

Selected Frame Source: CH1

Selected Frame: 2

Reference Frame Source: CH1

Reference Frame: 1

HORIZONTAL VERTICAL TRIGGER FAST FRAME SETUPS WAVEFORM SAVE

Setup Directory: C:\setups

Setups:

- 1.txt
- 2.txt
- 3.txt
- Vahid.txt

SAVE
RECALL
DELETE
NEW FILE