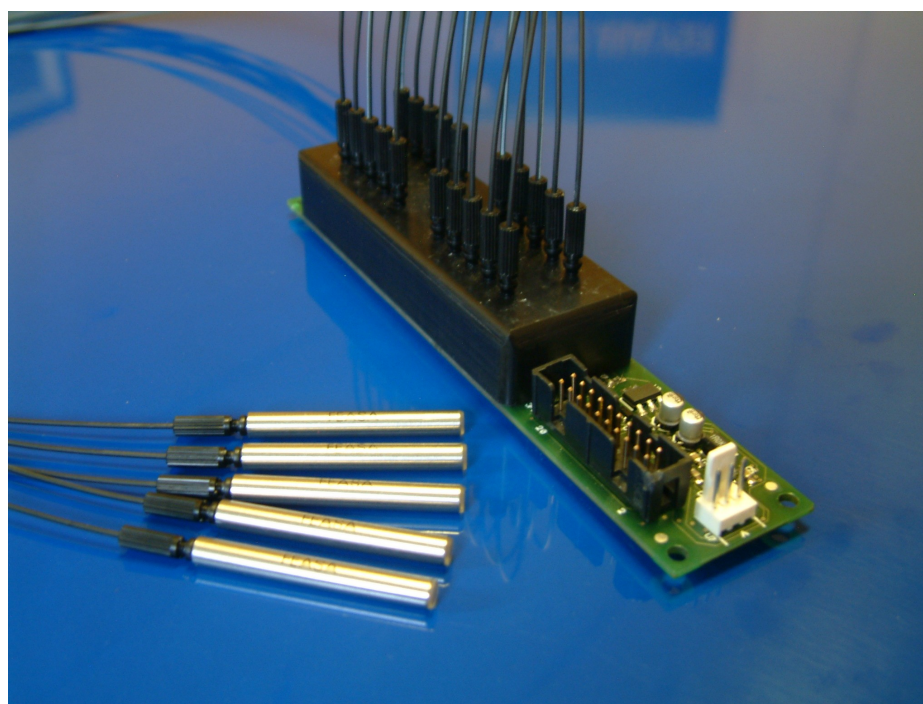


Feasa Led Analyser Teradyne / GenRad Application Note



User Manual for Feasa-I Analysers installed on an Teradyne/GenRad



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About this Manual

Feasa operates a policy of continuous development. Feasa reserves the right to make changes and improvements to any of the products described in this document without prior notice.

Feasa reserves the right to revise this document or withdraw it at any time without prior notice.

This manual is written for the Feasa In Circuit Test (ICT) Led Analysers. The model numbers are Feasa x-I (where x is the no. of fibers either 2,3,5,6,10,20).

The Feasa 20-I is a 20 channel unit which will test up to 20 LEDs while the Feasa 2-I is a 2 channel unit testing up to 2 LED's.

The interface on these units is Serial or ICT Interface (Measuring Frequency).

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Introduction

The Feasa Led Analyser can connect to a test machine using either RS232, USB or a custom frequency interface. Normally the frequency out interface is used on the Teradyne/Genrad ICT test machines. However in some cases the test machine is not configured to measure frequency.

In this case Feasa have provided an external executable program which can be called from the Teradyne/Genrad .tpg file using the "spawn" command. This external program executes the capture and reads back the colour and intensity data into a text file. This file can then be opened using the Teradyne/Genrad .tpg test program and the measured values used to generate a pass/fail for the LEDs being tested

Please refer to the Feasa ICT User Manual Vx.x for a more detailed explanation on the operation of the Led Analyser.

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Procedure

Extract the files contained in the zip file "general_purpose_capture_w98_nt.zip" into a folder on the Teradyne/Genrad test PC.

This is a Program which is used to execute a Capture and Read back commands on a Feasa LED Analyser. To perform this measurement, the file "pcapt.exe" must be executed. The results of the test are stored in a text file which can then be opened by the Teradyne/Genrad test program.

The config file "config.ini", which should be placed in the same folder as the file "pcapt.exe" must be edited before the program "pcapt.exe" can be executed. Commented lines are preceded by the character "#". The "config.ini" file contains the following parameters. (Please refer to the Led Analyser user manual for more detail on the baudrate, capture and readback commands):

```
# This is the serial port number which the Feasa LED Analyser is connected.  
port=1
```

```
# Feasa LED Analyser baudrate: 9600, 19200, 38400, 57600 (default), 115200, 230400.  
# Do not change this parameter unless the Feasa Led Analyser has been previously  
# configured to work at a different baud rate.  
baudrate=57600
```

```
# Number of fibers of the LED Analyser connected: 20, 10, 6, 5, 3, 2  
numfibers=20
```

```
# Command used to capture from the LED Analyser: C (auto), C1(low), C2(medium),  
C3(high), C4(super), C5(ultra), CPWM (for pwm -blinking- LEDs)  
command_capture=C
```

```
# Command used to read the colour or intensity data from the Feasa LED Analyser:  
# GETRGBI, GETHSI, GETXY, GETUV  
command_read=GETHSI
```

```
# File containing the data read back from the Feasa LED Analyser  
file_logging_data=C:\la_data.txt
```

```
# File containing the errors reported by this software. If no errors are detected, the file is  
# not created.  
file_logging_errors=C:\la_errors.txt
```

To allow greater flexibility, certain parameters can be passed to the EXE file as arguments. Parameters which are passed as arguments have precedence over the same parameter in the config.ini file.

The parameters are:

- port
- baudrate

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- numfibers
- command_capture
- command_read

Format:

pcapt -[parameter1]=[value1] -[parameter2]=[value2]...

Examples:

pcapt -port=2 -numfibers=3

pcapt -port=7 -numfibers=20

pcapt -port=2 -numfibers=20 -command_capture=C3 -command_read=GETXY

pcapt -port=5 -command_capture=C2 -command_read=GETXY

pcapt -port=5 -command_capture=C2 -command_read=GETXY

pcapt -baudrate=9600 -port=2

Notes:

Note 1: Spaces are not allowed between the parameter, the "=" character and the value. You can use no parameter, one or more parameters.

Note 2: The baudrate has previously been configured in the Feasa LED Analyser. If you wish to use a different baudrate than the default one, it is first necessary to configure the Feasa LED Analyser using the command SETBAUD. (Please refer the Feasa LED Analyser User manual for more information).