

Setup and Use of Disk Drive Parameters

This chapter describes how to configure and use the DDA's disk drive parameters. For more on parameters, see Chapter 21 of this manual, and the *Disk Drive Analyzer Reference Manual*.

MEASURE

Press  to display the DISK MEASURE menus shown here.

```

DISK MEASURE
mode
OFF
Custom
Asymmetry
TAA/PW50
NLTS
on trace
1 2 A D
hysteresis
0.5 1 2 4
divisions
statistics
OFF On
from
0.00 div
Track OFF On
to
10.00 div
  
```

mode

This is used for activating or deactivating the parameter measurement capability. Selecting any of the standard or custom parameters, instead of **Off**, activates it. When **Custom** is selected from this list, the CHANGE PARAMETERS menu will appear. The other selections available are:

- **Off** — This turns off the parameter measurement capability.
- **Custom** — This accesses a custom set of parameters. After this is selected, you can press the “Change Parameters” menu button to select up to five parameters for use at the same time.
- **Asymmetry** — This is for measuring the amplitude asymmetry of PW50+, PW50–, local baseline separation, and TAA. When chosen, the hysteresis menu appears.
- **TAA/PW50** — This is for measuring the TAA and PW50. When TAA/PW50 is selected, the hysteresis menu appears.
- **NLTS** — This is for measuring the non-linear transition shift (NLTS) of a PRML signal.
- **ACSN** — This is for measuring the auto-correlation signal-to-noise (ACSN).
- **Jitter** — This is for measuring the variation of period for each cycle of the signal.

on trace

Use this to specify the source of the signal for the measurement or measurements in each group of parameters, except for the custom parameters (see above). All displayed traces will appear here.

CHANGE PARAMETERS (not shown)

When **Custom** is selected from “mode” this menu appears, giving access to the CHANGE PARAM menu (see next page). It is used for selecting the parameter measurements to be made and configuring them.

statistics

This is for turning **On** display of the parameter’s average, lowest, highest, and standard deviation, as well as the number of sweeps included in the statistics. It is cleared each time the acquisition conditions change, or when the CLEAR SWEEPS button is pressed.

from

This is used to determine the starting point, in screen divisions, for parameter measurements. “Track” **On**, links control of the start and end points of the parameter measurement so that they can be moved together using the associated menu knob.

to

This is used to determine the end point in screen divisions.

Note: *All of the parameters explicitly shown in the MODE box are also selectable from the CUSTOM menu. For some of these parameters, once selected, a separate menu appears for more setup options. See the Disk Drive Analyzer Reference Manual for more information on the setup options.*

CHANGE PARAM

```

CHANGE PARAM
  On line
  1 2 3 4 5
  Category
  All
  DISK-Std
  DISK-Local
  DISK-PRML
  JTA
  MORE aasym
  SETUP
  measure
  --
  aasym
  acsn
  ampl
  area
  of
  1 2 3 4
  A B C D

```

On line

This is used to select which of the five parameters to modify .

Category

This groups each parameter in a specific category for easy access. When **All** is selected, the “measure” menu (see below) includes all parameters. However, when a particular category is selected, only those parameters in the category are displayed.

MORE ... SETUP

This menu provides more setup options for each parameter selected (see the *Disk Drive Analyzer Reference Manual* for more information).

measure

The parameters are displayed in this box for selection. When - - is selected, the line is not used.

of

Use this to specify on which channel or trace the parameter is to be measured.

Notes on Disk Drive Parameters:

- *For more detailed information on the definition of the parameters and their setup options, see the Disk Drive Analyzer Reference Manual.*
- *If a parameter does not have more setup options, the MORE ... SETUP menu becomes the DELETE ALL PARAMETERS menu. Selecting this menu will delete all of the parameters shown in the parameter field of the screen.*
- *To delete an individual parameter, select its line number from the “On line” menu, and then select “—” from the “measure” menu.*



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