

■ Specifications

● Measured Data to Be Analyzed

- Binary data measured on the TA320, TA520, or TA720.

Model Sampling Mode Measurement Function
TA320 Time stamp mode Pulse width (both polarities) measurement
TA520 Time stamp mode Pulse width (both polarities) measurement
TA720* Inter-symbol interference analysis mode Pulse width (both polarities) measurement, pulse width A -> pulse width B measurement, or pulse with A -> A-to-B time interval measurement

* TA720 with firmware version 1.02 or later

- Binary data saved using this software

● Method of Loading the Measured Data

- Floppy disk or GP-IB: TA320, TA520, TA720
- From internal hard disk (TA520 option) via SCSI: TA520
- Flash memory PC card (TA720 option): TA720
- Ethernet (TA720 option): TA720

● Number of samples that can be analyzed

- Up to 2 M samples with the accumulation function
(Integration of up to 64 sets of data possible within 2 M samples)

● Supported Modulation Methods

- 8-17 (EFM), 8-16 (EFM+), 1-7, or manual (arbitrarily set from 1T to 14T).

● Window Settings

- Setting the window size
Select Center/Span or Left/Right for each window.
- Window direct input method
Numeric settings (manually set each window range individually)
CD/DVD easy setting
Auto setting using clock cycle or frequency input
Auto setting by estimating the clock cycle from the data

● Histogram Analysis

- Data Extraction Condition Settings
Set the extraction mode, trigger, and extracted data visually using the trigger bar.
Trigger setting: Select All, 1T to 14T, greater than or equal to the specified T symbol, less than or equal to the specified T symbol, Odd, or Even.
- Analysis Results Display
Histogram display all data or extracted data and the list of statistical values (average, jitter, no. of calculated data samples).

● Matrix Analysis

- Data Extraction Condition Settings
Set the trigger and extracted data visually using the trigger bar.
Trigger settings: Select All, 1T to 14T, greater than or equal to the specified T symbol, less than or equal to the specified T symbol, Odd, or Even.
- Analysis Results Display Using Statistical Values
 - Display statistical values for the extracted symbol (before and after the trigger).
 - Select a statistical value of average, deviation, or jitter.
 - Select the jitter unit from % or ns.
- Analysis Results Display Using Graphs
 - Select from all-points display (graph), deviation display, and jitter display.
 - All points display
 - Plot the measured average of the extracted data (before and after the trigger) on the x and y axes. (frequency can be displayed in color)
 - Turn On/Off the average value display and trend display (vertical/horizontal line plot)
 - Zoomed display possible

- Deviation display, jitter display
 - Display deviation between each extracted data before and after the trigger, or display amount of jitter
 - Select a display format of Bar, Pie, or Rectangle
 - Select the jitter unit from % or ns.
 - Threshold value (2 points) setting and display 3 stages (Good/Safe/Error) using different colors.

● Saving/Loading of Data

Setup data of the software (.cfg), measured data (.mds), statistical values (.csv: save only), and deviation center value (.dev).

● Setup Data Backup

Save settings (excluding measured data) from the previous session

● Comment Entry

Input up to 50 characters

● Printing Analysis Results

- Print analysis results in a histogram or matrix (graph and sheet)
- Select print mode (black and white, color)

● System Requirements

- OS: Microsoft Windows 98 SE, Windows NT Workstation 4.0, Windows 2000 Professional, or Windows XP Professional.
- PC memory: 64 MB or more, 128 MB or more for Windows 2000/XP
- CD-ROM drive: Used for installing this software
- Hard disk free space: 40 MB or more
- Display: A device capable of displaying SVGA resolutions (800 x 600 dots) or more (1024 x 768 recommended) at 256 colors.
- GP-IB adaptor/PCMCIA card (only when connecting the TA320/520/720 via GP-IB)
A device with a NATIONAL Instruments GP-IB adaptor or PCMCIA-GPIB card installed, and with the corresponding drivers installed.
- Ethernet port: Only when connecting to the TA720 via Ethernet
- Floppy disk drive: Only if opening data saved to floppy disk
- Mouse/printer: devices compatible with your operating system

■ Model

Model	Description
704223	Optical Disk Inter-Symbol Interference Analysis Software for TA720/TA520/TA320