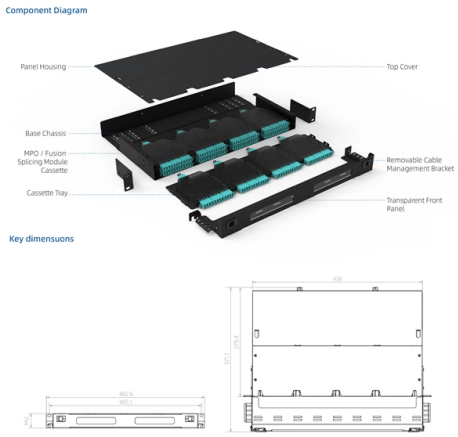
Eye Diagram Analyzer Button Instructions



Overview

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Key Takeaways

The Eye Diagram Analyzer uses a combination of front-panel buttons, a custom keypad, and softkey menus to control measurement setup, trace display, and calibration functions efficiently.

Custom Keypad

The analyzer comes with a custom keypad that snaps into the front panel of 70004A displays. This keypad provides quick access to common functions, reducing the time needed for procedures compared to navigating through softkey menus. To remove the keypad, insert a small flat-blade screwdriver into the removal hole and push straight to pop it out.

Each button on the keypad corresponds to frequently used operations such as starting measurements, averaging traces, or selecting display modes.

Front-

Panel Buttons

The front panel includes buttons for: Menu navigation: Access the main menus and submenus for measurement setup. Trace control: Position, scale, and average traces using dedicated buttons. Persistence settings: Adjust display persistence (e.g., infinite monochrome persistence) to visualize signal variations over time.

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Calibration and self-test: Buttons allow you to connect the calibrator output, perform self-tests, and apply user corrections.

Softkey Menus

Softkeys on the display provide context-sensitive options: Setup menu: Select measurement modes such as eye, eyeline, or pattern. Traces menu: Display up to four traces, position them vertically, and scale them for analysis. Averaging submenu: Average multiple sweeps to reduce noise.

Persistence submenu: Adjust color-coded persistence for better visualization of signal variations.

Measurement Setup Buttons

To set up measurements: Connect equipment: Use SMA/SMB cables to connect pattern generators, signal sources, and optical-to-electrical converters. Load personality: Press the button to load the eye-diagram analysis software personality. Complete installation: Follow the on-screen instructions using the front-panel buttons.

Set measurement conditions: Use the Setup menu softkeys to select the desired mode and configure parameters. Calibration and User CorrectionsALIGN, BIT, CLEAR, DEFAULT, DELAY, DIAGRAM, EXTIN, MARGIN, MARMSK, MEAS, PERSIST, QUIT: These buttons allow you to perform calibration, apply mask testing, adjust margins, and control persistence settings. User-corrections: Access menus to enter, edit, and view user-correction data, ensuring accurate measurements.

By combining the custom keypad, front-panel buttons, and softkey menus, users can efficiently navigate the Eye Diagram Analyzer for setup, measurement, and analysis tasks. Practicing with the keypad is recommended to speed up routine operations.

Article Content

71501D Eye-Diagram Analysis System Users Guide | Keysight

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Agilent 71501D Eye-Diagram Analysis User''s Guide

In this tutorial, the eye-diagram analyzer is placed in eyeline mode so that the eye filter can be applied to reduce trace noise. To measure the signal, a photo-diode converter with a responsivity of 30

Agilent Technologies 71501D Getting Started with the Eye-Diagram

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Agilent Technologies 71501D Getting Started with the Eye-Diagram Analyzer . Getting Started with the Eye-Diagram Analyzer, Steps for Setting Up Eye-Diagram Analysis, Step 1. Connect the Equipment,

Agilent Technologies 71501D manual

Agilent Technologies 71501D manual . ii, General Safety Considerations, Getting Started with the Eye-Diagram Analyzer, Application Tutorials, Eye-Diagram Analyzer Reference, Programming

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Agilent 71501D Eye-Diagram Analyzer User''s Guide | Manualzz

This guide covers setting up and using the Agilent 71501D Eye-Diagram Analysis system, including connecting equipment, loading personality software, and configuring measurement conditions.

CAN Protocols TDME Instruction Manual

This manual explains the basic procedures for using serial data trigger and decode software options for Teledyne LeCroy oscilloscopes. There are also sections pertaining to the measure, graph and eye

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Teledyne LeCroy

How is an eye diagram created in SDAIII? What is the best way to make eye measurements? An eye diagram is created from a serial data stream by using a reference clock, which can be either supplied

Serial Data Eye Diagram and Jitter Analysis – Teledyne LeCroy

Simplified Serial Data Expertise with SDA Expert. Eye diagram and jitter analysis with built-in technology expertise and simplified setup.

Eye Diagram Basics: Reading, Analyzing and Applying

In an ideal world, eye diagrams would look like rectangular boxes. In reality, communications are imperfect, so the transitions do not line perfectly on top of each other, and an

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Anatomy of an Eye Diagram: How to Construct & Trigger

Learn how to construct an eye diagram via common methods of triggering used in electrical engineering to gain more insight to transmitters, channels and receivers.

Anatomy of an Eye Diagram

Abstract This paper describes what an eye diagram is, how it is constructed, and common methods of triggering used to generate one. It then describes different ways that information from an eye

Automotive Protocols TDME Instruction Manual

Also, eye diagrams are modified to represent only the filtered results, which can help to identify exactly which indices of data are the cause of signal integrity problems.

Analyzing Eye Diagrams for Signal Integrity | Sierra

Eye diagrams reveal critical signal integrity issues like Inter-symbol interference, jitter, crosstalk, ringing, and reflections.

What is an eye diagram? | Video | TI

This video discusses what an eye diagram is, and what makes it an invaluable tool for the evaluation of systems with high-speed data signals.

71501D Eye-Diagram Analysis System Users Guide | Keysight

User Manuals 71501D Eye-Diagram Analysis System Users Guide You can configure the 71501D system as a high-speed eye-diagram analyzer using Option 005 eye-diagram analysis software.

How Do I Create an Eye Diagram in DPOJET?

Add an Eye Diagram plot to the configuration. Step 8. Acquire the Signal and Analyze If you have already acquired a waveform, click the Recalc button to start the analysis. If you have not already

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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