



DESCRIPTION

CalBench consoles can be fitted with various oscilloscopes depending on customer requirements. Each scope offers excellent accuracy and high performance, and are ideal for maintenance of electronic equipment and general purpose laboratory work.

Standard Features:

- **16 Automated Measurements, and FFT Analysis for Simplified Waveform Analysis**
- **Built-in Waveform Limit Testing**
- **Automated, Extended Data Logging Feature**
- **Autoset and Signal Auto-ranging**
- **Built-in Context-sensitive Help**
- **Probe Check Wizard**
- **Multiple-language User Interface**
- **5.7 in. (144 mm) Active TFT Color Display**

7021 / 7022 / 7023 / 7024 Basic Specifications

TECHNICAL SPECIFICATIONS

Display.....	TFT
Bandwidth.....	7021 & 7022 = 70MHz. 7023 = 100MHz. 7024 = 200MHz (B/w is 20MHz at 2mV/div for all)
Channels.....	7021 = 2. 7022, 7023, & 7024 = 4.
External Trigger Input.....	Included on all modules.
Sample Rate on Each Channel.....	7021 & 7022 = 1.0GS/s. 7023 & 7024 = 2.0GS/s
Record Length.....	2.5k points at all time bases on all modules
Vertical Resolution.....	8 bits
Vertical Sensitivity.....	2mV to 5V/div on all models with calibrated fine adjustment
DC Vertical Accuracy.....	±3% on all modules
Vertical Zoom.....	Vertically expand or compress a live or stopped waveform
Maximum Input Voltage.....	300V RMS CAT II; derated at 20dB/decade above 100kHz to 13V p-p AC at 3MHz.
Position Range.....	2mV to 200mV/div +2V. >200mV to 5V/div +50V
Bandwidth Limit.....	20MHz for all modules
Input Coupling.....	AC, DC, GND on all modules
Input Impedance.....	1MΩ in parallel with 20pF
Time Base Range.....	7021 & 7022 = 5ns to 50s/div. 7023 & 7024 = 2.5ns to 50s/div
Time Base Accuracy.....	50ppm
Horizontal Zoom.....	Horizontally expand or compress a live or stopped waveform
Interfaces.....	USB host port on front panel supports USB flash drives USB device port on back of instrument supports connection to PC. GPIB optional.

Non-Volatile Storage

Reference Waveform Display.....	(2) 2.5k point reference waveforms
Waveform Storage w/o USB Drive.....	7021 = (2) 2.5k point. 7022, 7023, & 7024 = (4) 2.5k point.
Maximum USB Drive Size.....	64GB
Waveform Storage with USB Drive.....	96 or more reference waveforms per 8MB
Setups without USB Drive.....	10 front-panel setups
Setups with USB Drive.....	4000 or more front-panel setups per 8MB
Screen Images with USB Drive.....	128 or more screen images per 8MB (the number of images depends on file format selected).
Save All with USB Drive.....	12 or more Save All operations per 8MB. A single Save All operation creates 3 to 9 files: setup, image, plus one file for each displayed waveform

Module Width..... 425mm (primary or secondary console fitting)

Full specifications and other models available upon request.

ORDERING INFORMATION

7021	Digital Oscilloscope Module - 70MHz, 2 channel, colour LCD display
7022	Digital Oscilloscope Module - 70MHz, 4 channel, colour LCD display
7023	Digital Oscilloscope Module - 100MHz, 4 channel, colour LCD display
7024	Digital Oscilloscope Module - 200MHz, 4 channel, colour LCD display

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

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