Nida Corporation

Model 130ST

The Model 130ST Trainer is the most versatile part-task trainer ever developed by Nida Corporation. This trainer supports all existing Nida legacy experiment cards and all new "Fast Track" experiment cards. The "ST" designator in the trainer's name represents an array of Smart Technologies that include Wi-Fi, Bluetooth, system monitoring, self-tests, and user feedback. The "ST" also refers to the intuitive, interactive and versatile relationship between Student and Teacher. The four-way communication between lesson, student, teacher, and trainer is a uniquely Nida interaction.

The Model 130ST Trainer is designed for use with many training environments including, traditional computer based training supported by desktop computer systems; flexible delivery supported by a student tablet interface; Nida online eLearning; and stand-alone lab manual instruction. Regardless of instructional method, the Model 130ST Trainer manages voltages, current, and fault conditions used during investigative and troubleshooting experiments. All experimentation is focused towards live, hands-on use of real test equipment.

Smart Technology and Fast Track Experiment Cards

NIDA SPECIFICATIONS

NIDA MODEL 130ST CONSOLE

General Description

The Nida Model 130ST Console functions as the primary platform for electronic experiments performed using Computer Assisted Instruction (CAI), Text Based Curriculum (TBC) or ACT connectivity. The Model 130ST is a current limited power supply designed specifically for use with all Model 130 Series printed circuit experiment boards. Discrete voltages activate the experiment cards, allowing students to align, calibrate, and troubleshoot operational electronic circuits using standard laboratory test equipment.

Features

- Fully automatic operation in CAI mode through student computer USB or serial port.
- Supports automatic, manual, remote, and multiple fault insertion.
- Built-in and auxiliary connections allow signal input/transfer between card positions.
- Color touch screen for manual operation mode.
- Automatic alarm sounds if malfunction is detected and display panel indicates symptom.
- 3.5mm headphone jack for audio output.
- The 7-inch display shows selected mode, input signals, and trainer status.
- Self-cleaning contacts to ensure a proper connection with each experiment card installation.
- Wifi and Bluetooth available if required.*

Specifications

Primary Power:
110-130 VAC 60Hz (0.6A max) or 220-240 VAC 50/60Hz (0.3A max),
switched controlled & primary fuse protection.
DC Power Sources:
0 to –15 volts DC with selectable voltages and current up to 1 ampere.
0 to +24 volts DC with selectable voltages and current up to 1 ampere.
DC power supply meter ranging from 0 to 25 volts.
AC Power Sources:
Dual 12 VAC at .83A each.
Communications Link: Serial or USB computer interface.
Display: 7" Full color touch screen
Operating Temperature:
50 to 104 degrees Fahrenheit ambient
10 to 40 degrees Celsius ambient.
Dimensions: 17.3"W (44cm) 12.6"D (32cm) 4.7"H (12cm)
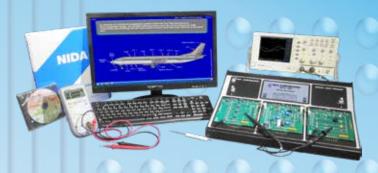**Weight:** 10 lbs. (4.5 kg)
Construction: Formed aluminum base, matte finish overlay with touch screen.
Manufactured: In the USA.

*Not included

Representative

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Nida Model 130ST Trainer

Fast Track Experiment Cards

The Fast Track Technician course is supported by a new group of experiment cards designed to focus specifically on getting a technician to the job as quickly as possible. The Fast Track Experiment cards are system oriented and emphasize schematic reading and test equipment analysis. The new cards take full advantage of the larger experiment card foot print offered by the Model 130ST and incorporate the interactive feedback between the card, lesson, and student.

Smart Technology

In a world filled with an "Internet of Things" (IoT) the Model 130ST is designed with capabilities that support desktops, laptops, smartphones, and tablets. With Wi-Fi and Bluetooth available, this trainer will support technologies now and well into the future. In addition to IoT, this console supports stand-alone manual operation and computer managed clustering.

Legacy Experiment Cards

All Nida legacy experiment cards are functional on the Model 130ST.

Specifications

Display: The Model 130ST uses a 7" capacitive-touch color screen for visual outputs and manual inputs. In CAI mode the display shows voltage outputs and lesson generated information. Icons alert for speaker and input/output BNC jack applications as required by CAI lessons.

Card Feedback: Auxiliary pins at each card location provide feedback to identify proper configuration of the circuit card or confirmation of actual measurements.

Dimensions: 4 ½"H x 11 ½"D x 17 ½"W (114 mm x 292 mm x 444.5 mm)

Weight: 10 lbs. (4.5kg)

Construction: Formed aluminum base, matte finished overlay. Manufactured in the United States.

Communication Link: Serial or USB computer interface.

AC Power: Dual 12 VAC

DC Power: +3.3, +5.0, +12.0, +15.0, +24.0 VDC @ 1A and -5.0, -12.0, -15.0 VDC @ 300 mA.

*For more information about the **Model 130ST Smart Technology Trainer**, contact Nida Corporation at 800-327-6432 or an authorized Nida representative near you.*