Curve Family: SWEEP, SYNCH SWEEP, STEP, and up to 3 BIAS channels, Linear, log, linear pulsed and log pulsed sweeps. DC Source-Measure: Up to 6 BIAS Channels. GPIB CONTROL: Provides basic control of any GPIB instrument. Useful for controlling sources, switch matrices, hot chucks, and probers. 707 MATRIX SUPPORT: Upload and download setups (up to 100 memories). DATA DISPLAY: Graphic or list display. XY or XYY Graph Axes: Manual or auto scale, linear or log, labeled, Xaxis and Y-axis invert. Overlay two sets of reference data on original. GRAPHIC ANALYSIS: Dual data curve markers with data value readout. Line Display: Between markers. Readout slope, 1/slope, X- and Yintercept. Zoom between markers. Filter data curve. Gain/Ratio Calculation: DC or differential. Data array or point. Graphic display or readout referenced to marker position. Used for Beta, gm or resistance. PRINT/PLOT: Hardcopy output of any screen to printer, or output graphic display to plotter. FILES: Data File: Contains Data, test, GPIB and display parameters.

> Test Setup File: Contains Test, GPIB and display parameters. Instrument Configuration File: Contains Instrument names,

> Test Sequence Files: Contains the user's pre-programmed test

Data Export/Import: Contains Data, array names and units. Lotus

AUTOMATIC TEST SEQUENCES: Program any sequence of tests, prints,

plots, 707 downloads, data save/export, prompts and display, for at-

tended or unattended operation. Printing or plotting can be done off-line

MEASUREMENT CAPACITY LIMITS: A curve in the Curve Family Test

may contain up to 1000 points. Up to six source arrays and up to six measurement arrays can be created by each test. Each array is limited to

GPIB addresses, Trigger Controller channels.

sequence (ASCII file).

the available disk storage space. HELP: On-line, context sensitive, with index.

SYSTEM REQUIREMENTS

(after acquisition).

card, parallel port.

(.WK1) and ASCII (.ASC).

707 File: Contains 707 matrix setups.

INSTRUMENTS CONTROLLED: Model 236/237/238 Source Measure

Model 2361 Trigger Controller is required for 2 or more SMUs.

TESTS: Control instruments to source and measure current or voltage.

Units (SMU), Model 213 Quad Voltage Source, Model 707 Matrix Switch.

OVERVIEW

Scientific Solutions IEEE 488 LM, MC-IEEE 488 Ziatech ZT 1444, ZT/2 SUPPLIED TEST LIBRARY

4000 points. The maximum number of arrays and tests is limited only by

MINIMUM HOST COMPUTER: IBM compatible 80386, 640kb Conventional RAM (530k or 542720 bytes free) plus 1Mb of LIM expanded memory, hard drive (2MB free), 720kb $3\frac{1}{2}$ inch or 1.2Mb $5\frac{1}{4}$ inch floppy drive, Intel 80387 math coprocessor, EGA color monitor and graphics

The Test Library provides default settings for the Test, 707 Matrix, GPIB Control, Data Display and Graphic Analysis screens. FET TESTS: Curve Family, Threshold Voltage, Transconductance, Breakdown, and Leakage. BIPOLAR TESTS: Curve Family, Gummel Plot, Current Gain, Breakdown, and Leakage (linear and pulsed sweeps). DIODE TESTS: I-V Curve, Reverse Breakdown, Zener Voltage. COMPONENT TESTS: Capacitor Leakage, Resistor Voltage Coefficient. EXAMPLE GPIB CONTROL: 213 Quad Voltage Source, 707 Switching Matrix and hot chuck. TEST SEQUENCES: Bipolar tests, multiple diodes.

OPERATING SYSTEM: MS-DOS or PC-DOS 3.2 (minimum).

HP LaserJet, IBM Proprinter, and Okidata Microline 182.

COMPATIBLE PLOTTERS: HP7440, HP7470, HP7475.

COMPATIBLE MOUSE: Microsoft or Logitech.

Capital Equipment PC<>48, 4×488, PS<>488

Advantech PCL 748

B&C PC488A

BBS GPIB-1000

Contec GPIB (PC)

IBM GPIB board

MetraByte IE-488

ICS 488-PC1

Hewlett Packard HPIB

IOtech GP488, GP488/2

MC-GPIB. AT-GPIB

Qua Tech MXI-100, MXI-1000

GRAPHICS ADAPTER: EGA or VGA color, VGA monochrome.

IEEE-488 (GPIB) INTERFACE CARDS SUPPORTED

Keithley PC-488-CEC, 4-488-CEC-0M, 4-488-CEC-1M, PS-488-CEC

National Instruments GPIB-PC, GPIB-PCII, GPIB-PCIIA, GPIB-PCIII,

COMPATIBLE PRINTERS: IBM Graphics Printers, Epson or compatible,

MATERIALS PROVIDED

Instruction Manual

Diskettes: 720kb $3\frac{1}{2}$ inch and 1.2Mb $5\frac{1}{4}$ inch containing installation,

program, test library, and sample data.

Specifications subject to change without notice.