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TECHNOLOGY GROUP

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SPECIFICATIONS

All specifications allow for 20 minutes warm-up and are guaranteed at 15-35 degrees C (59-95 degrees F).

Sync & Video Output

VIDEO BANDWIDTH: 98 MHz

HORIZONTAL SYNC:
RANGE: 10.0 KHz to 250 KHz
ACCURACY: +/- 200 nSec
STEPS: 10.0 KHz to 99.9 KHz, .1 KHz and 100 KHz to 250 KHz, 1 KHz
LEVEL: 5 VPP
POLARITY: (+) or (-)

VERTICAL SYNC:
RANGE: 10.0 Hz to 250 Hz
ACCURACY: +/- (1/H FREQ)*(6)
STEPS: 10.0 Hz to 99.9 Hz, .1 Hz and 100 Hz to 250 Hz, 1 Hz
LEVEL: 5 VPP
POLARITY: (+) or (-)

COMPOSITE SYNC:
LEVEL: 5 VPP
POLARITY: (-)

HORIZONTAL RESOLUTION:
RANGE: 80 pixels to 1,024 pixels in one pixel steps

VERTICAL RESOLUTION:
RANGE: 80 pixels to 1,024 pixels in one pixel steps

MEMORY:
60 computer monitor setup storage locations.

VIDEO:
VIDEO PATTERNS: raster, dots, circle, color bars, staircase, windows, multiburst and text

DIGITAL
LEVEL: 5 VPP
POLARITY: (+) or (-)
VIDEO OUTPUT: red, green, blue and intensity.

ANALOG
LEVEL: 1 VPP, white level .714 V, black 0.0, and sync -.286 into 75 ohms.
POLARITY: (+) or (-)
SYNC ADDER: red, green, blue
MODE: Non-interlace or interlace
VIDEO OUTPUT: red, green, blue

SYNC TIMING: The CM2000 recognizes common computer monitor formats and adjusts the sync time, front porch and back porch.

SYNC TIMING DEFAULT: If the CM2000 does not recognize the computer monitor format it sets the output to 80% displayed video and 20% sync. The sync pulse is divided into thirds between the front porch, blanking and back porch.

SYNC TIMING PROGRAMMING: Sync timing parameters can be set through the IEEE 488 or RS232 interface buses.

HORIZONTAL
Minimum blanking time is 1.5 uSec. Minimum sync time is 0.3 uSec.

VERTICAL
Minimum blanking time is 1/H freq. Minimum sync time is 1/H freq.

Digital Display

RINGER TEST
INDUCTOR RANGE: 10 uH and larger, non-iron core
ACCURACY: +/- 1 count on readings between 8 and 13 rings
RESOLUTION: +/- 1 count
EXCITING PULSE: 5 volts peak, 60 Hz rate

YOKES & FLYBACKS
counts rings up to a 25% damping point

SWITCHING TRANSFORMERS
counts rings up to a 5% damping point

DC VOLTMETER
RANGES: Autoranging in three ranges, 0.00 to 19.99 V, 20.0 to 199.9 V and 200 to 1999 V
ACCURACY: +/- 0.5% +/- 2 counts
RESOLUTION: 10 mV on 20 V range, .1 V on 200 V range and 1 V on 2000 V range
INPUT IMPEDANCE: 15 megohms +/- 1%
AC REJECTION: Greater then 60 dB

PEAK-TO-PEAK VOLTMETER
RANGES: Autoranged in three ranges, 0.0 to 19.9 V, 20 to 199 V, 200 to 1999 V
ACCURACY: +/- 1% +/- 2 counts, +/- 5% +/- 5 counts in the 200 to 1999 V range
FREQUENCY RESPONSE: 30 Hz to 5 MHz +/- 1 dB on 20 V range, 30 Hz to 250 KHz +/- 1 dB on 199 V and 2000 V ranges
RESOLUTION: .1 V on 20 V range and 1 V on 200 V and 2000 V ranges
INPUT IMPEDANCE: 15 megohm shunted by less then 40 pF
PROTECTION: 2000 VDC (DC + peak AC) across inputs. Maximum voltage between (-) and ground = 1500 V (DC + peak AC).

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Drive Signals

All drive signals are phase-locked to the SYNC & VIDEO OUTPUT.

SIGNALS AVAILABLE: video, composite sync, vertical sync, vertical drive, horizontal sync, horizontal drive
RANGE: 3 ranges, 0.0 to 3.0 VPP, 0 to 30 VPP and 0 to 300 VPP
ACCURACY: +/- 1%, +/- 2 digits for H DRIVE signal
FREQUENCY RESPONSE: 30 Hz to 5 MHz < 3 dB on 3.0 VPP and 30 VPP ranges. 30 Hz to 250 KHz < 3 dB on 300 VPP range.
OUTPUT: 3 VPP range, 3 VPP, +/- 0.5 V into 100 ohms circuit impedance, 30 VPP, +/- 5 V into 100 ohms circuit impedance, 300 VPP, +/- 50 V into 10,000 ohms circuit impedance.
PROTECTION: +/- 450 V (DC + peak AC)

General

DISPLAYS: LCD readout for FREQUENCY and PIXEL parameters. 3 1/2 digit LCD readout for DRIVE OUTPUT/DVM.
GUARANTEED OPERATING TEMPERATURE: 15 to 35 degrees Centigrade
WARM-UP TIME: 20 minutes
SIZE: 6" X 11.5" X 15" (15.2 X 29.1 X 38.1 cm) HWD.
WEIGHT: 16 pounds (7.3 kg).
POWER: 105 to 125 VAC 50/60 Hz, 60 Watts.

All specifications are subject to change without notice.

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OPTIONAL ACCESSORIES

22. **EXTENSION CABLE** (39B271) - Provides an extension cable for the SYNC & VIDEO Output Jack (12) (48 inches).

23. **UNIVERSAL CONNECTOR** (39B273) - Cable connects to SYNC & VIDEO OUTPUT Jack to provide a connection to monitors having non-standard connectors. (12 inches).

24. **CONNECTOR #1** (39B275) - Adapter connects between the SYNC & VIDEO OUTPUT Jack and the input cable of CGA, MDA and Hercules type monitors.

25. **CONNECTOR #2** (39B280) Adapter connects between the SYNC & VIDEO OUTPUT Jack and the input cable of EGA type monitors.

26. **CONNECTOR #3** (39B281) - Adapter connects between the SYNC & VIDEO OUTPUT Jack and the input cable of PGC type monitors.

27. **CONNECTOR #4** (39B274) - Adapter connects between the SYNC & VIDEO OUTPUT Jack and the input cable of VGA, PS/2®, SVGA and XGA type monitors.

28. **CONNECTOR #5** (39B276) - Adapter connects between the SYNC & VIDEO OUTPUT Jack and the input of Apple® and Macintosh® type monitors.

29. **CONNECTOR #6** (39B272) - BNC cable connects to SYNC & VIDEO OUTPUT Jack to provide a connection to monitors having BNC input connectors (48 inches).

30. **IB72 IEEE-488 BUS INTERFACE ACCESSORY** - Connects between the INTERFACE ACCESSORY Jack (16) and the IEEE-488 port of a bus controller to provide IEEE Bus operation.

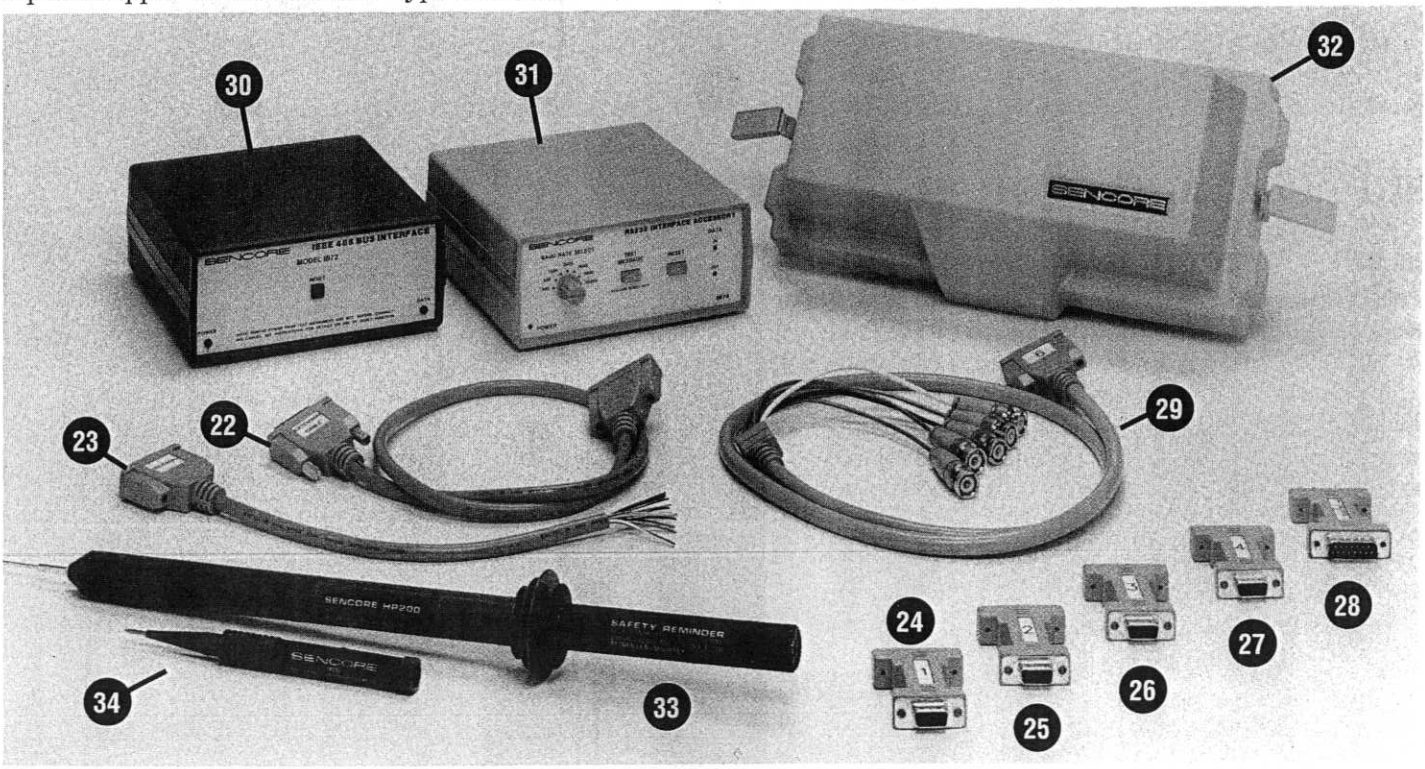
31. **IB78 RS232 INTERFACE ACCESSORY** - Connects between the INTERFACE ACCESSORY Jack (16) and the RS232 serial port of a computer to provide automated testing and programming.

32. **PC263 PROTECTIVE COVER** - Snap-on cover protects front panel and provides Test Lead and Interface Connector storage.

33. **HP200 50 kV HIGH VOLTAGE PROBE** - Use with DVM TEST LEADS (21) to extend the DCV measuring range to 50 kV.

34. **TP212 10 kV TRANSIENT PROTECTOR PROBE** - Use with DVM TEST LEADS (21) to extend the DCV measuring range to 10 kV.

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