The Preferred Portable
For Text-Editing.

TeleRam's many years of experience as a leading supplier of portable text-editing terminals used by journalists, reporters and writers worldwide has been used to create the TeleRam 3100. Easily carried at less than 9 lbs. and small enough to fit in a briefcase, the TeleRam 3100 can be operated anywhere from its built-in rechargeable batteries, a car lighter or wall outlet. Up to 256kbytes of rugged non-volatile bubble memory provides massive storage capacity without the problems of battery backed memory or disk based products.

Designed for field or office use, the TeleRam 3100 teletext™ text-editing software provides insert, overstrike, auto wordwrap, block operation, auto search/replace, copy, move, delete, file status, file directory, and much more. It's easy to learn and simple to use. A data transmission menu driven program is included.

And the best part—the TeleRam 3100 with its 4 line x 80 character LCD display is fully CP/M® 80™ compatible and can run 1000's of standard business programs.

A wide range of peripherals are available consisting of modems, printers, carrying case, TeleRam 3620 portable disk drive and TeleRam 3500 office station which converts the TeleRam 3100 into a full desk top PC with the added benefit of front end portability.
**HARDWARE**

**Computer**
- CPU: Z80-L
- CPU clock: 2.5MHz

**Memory**
- ROM: 4Kbytes (contains power-on diagnostics, teleCONNECT™ initialization, bootstrap loader)
- RAM: 64Kbytes dynamic RAM, no wait states
- External: 16Kbytes overlay memory via teleCONNECT

**Mass Memory**
- Bubble Memory: 128Kbytes, configured as disk “Drive A,” expandable internally to 256Kbytes
- External: floppy, Winchester disk via teleCONNECT

**Communications**
- Serial: one programmable RS232C, fully configurable
- Line Protocols: DTR/CTS, XON/XOFF, keyboard selectable
- Block Protocols: CRC-16 using teleTALK™

**Keyboard**
- Number: 83 stations
- Programmable: 16 function keys (each 2-level programmable) 12-key numeric keypad (7 keys 2-level programmable, 5 keys 1-level programmable)

**Display**
- Physical: 4-line x 80-character liquid crystal display
- Logical: physical display acts as four-line scrolling window on a TeleVideo TVI-920C 24-line x 80-character display
- External: 24-line x 80-character CRT via teleCONNECT

**Power Requirements**
- Battery Operation: typical operation 5 hours between charges
- AC Operation: 110/220VAC 50/60Hz use while recharging
- DC Operation: 12VDC @ <1A use while recharging
- Power Dissipation: 3 watts average, 9 watts peak

**SOFTWARE**

**Text Editor**
- teleTEXT™: Professional writing tool compatible with Teleram Portabubble®/81* and 2277 editors, fully user-configurable. Full background communications, including unattended receive, formats, headers, search and replace, and single-keystroke editing commands.

**EDP/RAM:** TeleTEXT utility allowing user modification of translation tables, transmission headers and trailers, answer back, and imbedded sequences.

**Operating System**
- Standard: CP/M™ Version 2.2
- Optional: UCSY p-System

**System Utilities**
- teleTALK: telecommunications utility which allows error-free file transfer via RS232C port
- KEYDEF: function key definition utility which can allocate function keys differently for each application program as well as for CP/M
- DEFAULT: allows modification of keyboard (repeat rate and repeat delay), communications (baud rate, word length, stop bits, parity, and protocol), and I/OBYTE parameters, saving them in non-volatile bubble memory
- ASSIGN: a versatile I/O redirection utility, allowing user modification of an automatically compiled device table (see expansion section), saving parameters in non-volatile bubble memory
- FORMAT: a disk formatting utility which allows use of disks formatted in Osborne single-density, IBM PC CP/M-86

**Miscellaneous**
- Applications: fully compatible with CP/M 2.2 word processing, spreadsheet, database and other applications
- Languages: fully compatible with CP/M 2.2 Pascal, BASIC, Fortran, Cobol, Z80 assembler and other languages

**GENERAL**

**Physical Dimensions**
- Size: 13"W x 9.75"D x 3.5"H
- Weight: 8.75 pounds

**Environment**
- Operating Temperature: 40 deg. F to 130 deg. F (100 to 55°C)
- Operating Humidity: 5% to 95% non-condensing
- Storage Temperature: -5 deg. F to 140 deg. F (-20°C to 60°C)

**Reliability**
- Operating Vibration: 0-55 Hz 0.010" sinusoidal—all 3 axes
- Non-Operating Shock: 15g for 20 msec—all 3 axes
- Mean-Time-Between-Failure: 2,800 hours
- Mean-Time-to-Repair: 30 minutes
- EMT: certified for FCC Class B (Home Use) conforms to VDE Specification 0871 Class B

**EXPANSION**

**Interface**
- teleCONNECT™: a proprietary 2.5MHz CPU bus which allows peripherals to be easily attached to 3100, and which supports the 3100's device table and I/O redirection scheme

**Desktop Peripherals**
- Model 3500 Office Station: expansion chassis with six card slots, allows desktop use of 3100 with peripherals such as floppy disks, Winchester disks, CRT monitors, printers, modems, etc.

**Transportable Peripherals**
- Model 3610 CRT Interface: a standalone monitor interface, capable of interfacing the 3100 to any standard 24-line x 80-character RS-170 CRT monitor
- Model 3620 Floppy Disk Drive: a standalone floppy drive, including controller electronics, power supply, and charger for the 3100. Facilitates data movement and program installation, supports four disk formats.

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*teleCONNECT, teleTALK, teleTEXT and Portabubble®/81 are trademarks of Teleram Communications Corporation

**CP/M is a trademark of Digital Research**

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