

**New from TeleVideo.
Computer Systems That Offer Power
and Flexibility to Meet Your Changing
Data Processing Needs.**

TeleVideo Systems, Inc.



TeleVideo's TS 803 single-user microcomputer system

TeleVideo: A Company on the Move

In four short years, TeleVideo Systems, Inc. has emerged as the industry leader in the CRT terminal marketplace. We are now repeating that phenomenal success with our professional personal and multi-user computers.



How? The answers are simple. At TeleVideo, we are totally committed to the idea of using computers to make people more productive, creative, and efficient at their work. And we pass that commitment along to our customers with the best marketing, production, and support in the industry.

TeleVideo computers are designed for all serious business applications, both for single- and multi-user environments. Explore TeleVideo computers, and you'll discover that only TeleVideo can offer the reliability, performance, flexibility, and competitive prices which truly spell leadership.

The Advantages are Many

A Growth Path

As your business grows, your computing needs will grow, too. TeleVideo computers keep up with that growth by allowing you to expand your system as required. You can start small with a personal computer and add computers as your needs increase. TeleVideo's multi-user service processors make it simple. Your investment — in hardware and software — is protected.

Multi-User Performance

Multi-user performance is assured with TeleVideo's multiple CPU architecture. Each satellite user station has its own CPU and RAM, so you can add stations with no degradation of system throughput. Applications programs are executed locally. And multiple CPU's guarantee true distributed parallel processing — inherently faster and more reliable than single CPU systems.

Versatile CP/M[®] Software

Virtually any applications program that runs under CP/M will run on TeleVideo's computer systems. Which means you can effectively utilize the largest selection of microcomputer software available. Order entry, accounting, word processing,

general ledger and payroll are but a few examples of available applications software.

Shared File Compatibility

TeleVideo offers a unique proprietary operating system called MmmOST™ (Multi-user, multi-tasking, multi-processor Operating System Technology). MmmOST provides user scheduling, record and file locking, and data base access control between the satellite user stations and the main disk files.

MmmOST was designed for the TeleVideo multi-user computer systems. It operates under CP/M and provides a CP/M environment for up to 16 user stations. And, it allows applications programs written for single-user environments to run on TeleVideo multi-user computers.

Reliability

TeleVideo believes in using the most advanced technology available for all its products. Which means you are assured of getting 'state of the art' components in every system. We conduct extensive testing of products before shipment — all electronics and sub-assemblies are thoroughly 'burned-in' for five days before they leave our facility.

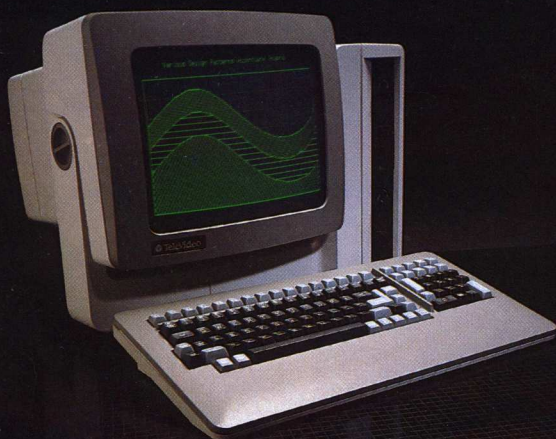


Availability

TeleVideo's innovative high-volume manufacturing insures fast delivery and unsurpassed value. TeleVideo's personal computers are available through an extensive network of distributors, dealers, and systems houses around the world.

Single-User Computers

TeleVideo's TS 802, 802H, and 803 personal computers are all 8-bit, stand-alone, single-user business systems. However, they are also designed to be used as satellite user stations in TeleVideo's MmmOST™ multi-user environment with up to 16 user stations.



TeleVideo provides the answer when your needs are small but allows you to expand your computing capabilities as your business grows.



The TeleVideo 8-Bit System

The TeleVideo 8-bit TS 800-series of personal computer systems combines a single-board computer architecture with a multi-feature terminal for a low-cost, powerful single-user system. Whether the system uses two slim-line 5¼-inch floppy drives or combines one slim-line 5¼-inch floppy drive with a 5¼-inch Winchester (hard) drive, you can depend on TeleVideo's reliability for your computing needs. The newest model, the TS 803, features support for business graphics applications programs.

The TS 800 series uses the CP/M operating system allowing the user to access a large library of applications programs. Whether your business needs require word processing, an accounting package, or a specific application for your field, with CP/M compatibility and the many features of your TS 800-series personal computer, TeleVideo is the answer.

TS 803 Features

- 4 MHz Z80A microprocessor
- 64 Kbyte RAM, expandable to 128 Kbyte RAM
- CP/M operating system
- Two slim-line 5¼-inch floppy disk drives
- 368.6 Kbytes of storage per drive (formatted)
- Full range of alphanumeric characters
- 16 programmable function keys
- Standard graphics resolution of 640 x 240 pixels
- Two RS-232 serial ports
- RS-422 port option for TeleVideo's multi-user systems
- Ergonomic standard

TS 802 and TS 802H Features

- Z80A® 4 MHz processor with direct memory access
- 64 Kbytes of RAM main memory
- 4 Kbytes of EPROM for system diagnostics and boot loading
- CP/M operating system
- TS 802 — two slim-line 5¼-inch floppy drives
- TS 802H — one slim-line 5¼-inch floppy drive and one 5¼-inch Winchester (hard) drive
- P31 green phosphor video display (25 rows x 80 columns)
- Typewriter-style detached keyboard
- Two RS-232C serial ports, one RS-422 serial port (SDLC)

TeleVideo 16-Bit Computers

TeleVideo's 16-bit stand-alone single-user personal computer systems combine the reliability and versatility of our 8-bit systems with the added capability of 16-bit architecture. Two features of the 16-bit products make them unique. The 16-bit systems are compatible with the 8-bit service processor and user stations in the multi-user environment, and the 16-bit systems offer graphics options — either an add-on board to support business graphics applications programs on the TS 1603, or the high resolution graphics capability integrated into the TS 1602G and TS 1602GH. Both systems provide the option for adding additional memory to their standard 128K dynamic RAM for a total of 256K.

The 16-bit systems use the 8088 microprocessor running at 5 MHz. The TS 1602G and TS 1602GH also incorporate a graphics processor and a 32K bit map (image) memory RAM for its graphics capabilities featuring a resolution of 576 x 424 pixels. The keyboard of the TS 1602G and TS 1602GH also features graphics keys to manipulate the cross-hair cursor and to implement the pan, zoom, and rubberband functions. You can add TeleVideo's SuperMouse™ for added flexibility.

Whether you have a specific need for graphics now or you want to know that the capability for acquiring business graphics applications programs is available, TeleVideo's 16-bit personal computer systems are the answer.



TS 1603 Features

- 5 MHz 8088 microprocessor
- 128 Kbytes dynamic RAM, expandable to 256K
- 4 Kbytes EPROM with system diagnostics
- CP/M-86 operating system with GSX-86 graphics extension
- Twin slim-line 5¼-inch floppy disk drives



- 655 Kbytes storage per drive (formatted)
- Two RS-232C serial ports (modem and printer)
- One RS-422 serial port (SDLC) for network connection
- Phone-jack connector for TeleVideo's SuperMouse
- 14-inch, P31 green, tiltable non-glare screen
- Detached, Selectric-style keyboard
- 640 x 240 pixel video graphics (optional)

TS 1602G and TS 1602GH Features

- 5 MHz 8088 microprocessor
- Graphics processor
- 128K dynamic RAM (optional 256K)
- 32K bit map (image) memory RAM
- 4K EPROM with hardware diagnostics and RAM test
- CP/M-86 operating system
- Two 5¼-inch floppy disk drives
- 368.6 Kbytes of storage per drive (formatted)
- 7.47 Mbytes (formatted) — TS 1602GH only
- Two RS-232C serial ports (modem and printer)
- One RS-422 serial port (SDLC)
- 12-inch, P39 green, non-glare screen
- Detached, typewriter-style keyboard
- 576 x 424 pixels

Multi-User Computers

TeleVideo's TS 806/20 and TS 816/40 models are high speed multi-user, multi-CPU computer systems. The TS 806/20 can accommodate up to six users; the TS 816/40 up to 16 users.

Up to six TeleVideo user stations — each with its own CPU and as much as 256 Kbytes of RAM memory — can be placed on-line concurrently with no degradation of throughput. Any combination of TeleVideo's 8- and 16-bit personal computers (some with local on-line storage) can be supported by the TS 806/20.

The TS 806/20 uses the industry-standard CP/M operating system, enabling you to meet a wide variety of information and word processing needs through a multitude of commonly available CP/M™ applications programs.

TeleVideo's MmmOST® service operating system handles all scheduling and file/record locking between the user stations and shared disk files.

TS 806/20 Features

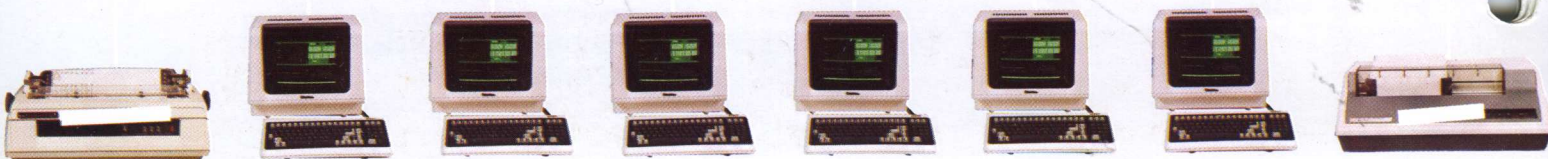
- 4 Mhz Z80A™ microprocessor
- 64 Kbytes dynamic RAM
- 4 Kbytes EPROM
- CP/M operating system
- MmmOST service processor operating system
- One floppy disk, one Winchester (hard) disk
- Storage Capacity
 - Floppy — 368.6 Kbytes (formatted)
 - Hard — 15.04 Mbytes (formatted)
- 8 serial ports — 1 RS-232C (printer), 1 RS-232C (restricted service), 6 RS-422 (SDLC)
- One parallel Centronics-type printer port

Any of TeleVideo's 8- and 16-bit personal computers (or satellite user stations) can be used with the TS 806/20 and TS 816/40 series of multi-user systems to build a powerful personal computer networking solution for growing businesses.

TeleVideo's TS 806/20

TeleVideo's TS 806/20 is a powerful, advanced design Z80A-based desktop microcomputer system which provides true multi-tasking capabilities for up to six intelligent user stations. Each user station has greater throughput than normally attainable in single processor shared systems.

The high performance on-line storage consists of one 368.6 Kbytes (formatted) slim-line 5¼-inch floppy disk drive and an advanced 15.04 Mbyte (formatted) 5¼-inch Winchester disk drive.



TeleVideo's TS 816/40

Up to 16 user stations can be used with TeleVideo's TS 816/40 microcomputer, creating a flexible multi-tasking computer system. These user stations can be any combination of TeleVideo's versatile 8- or 16-bit personal computers, either with or without local on-line storage.

Based on the Z80A™ microprocessor, the TS 816/40 service processor incorporates a high performance 8-inch Winchester disk drive with a formatted capacity of 33.20 Mbytes, plus a high-density tape cartridge drive with an unformatted capacity of 17.4 Mbytes for disk back-up.

Built into the system is the popular CP/M operating system, enabling you to use any of the thousands of field-proven CP/M applications programs. TeleVideo's MmmOST executive program handles all scheduling and shared file access for the 16 user stations. CP/M or CP/M-86™ is also downloaded into each user station where the operator can run local applications programs for maximum flexibility.

Although user stations can use their own on-line storage and peripherals, they can also share peripheral devices (printers or modems) attached to the TS 816/40. Two RS-232C ports and one RS-232C serial service port allow you to design a system to grow and change with your needs.

TS 816/40 Features

- 4 MHz Z80A microprocessor
- 128 Kbytes dynamic RAM
- 4 Kbytes EPROM
- CP/M operating system
- Service Operating System — MmmOST
- One 8-inch Winchester hard disk (33.20 Mbytes formatted)
- One ¼-inch tape cartridge (14.5 Mbytes formatted)
- 19 Serial Ports — 2 RS 232C (for modem and printer), 1 RS-232C (restricted service), 16 RS-422 (SDLC)
- 1 parallel Centronics-type printer port

TS 800 and TS 1600 User Stations

The TS 800 and TS 1600 are desktop intelligent user stations for TeleVideo's multi-user small business computer systems. TeleVideo's multi-user systems, using either the TS 806/20 or the TS 816/40 as the service processor, can support both 8- and 16-bit user stations making it one of the

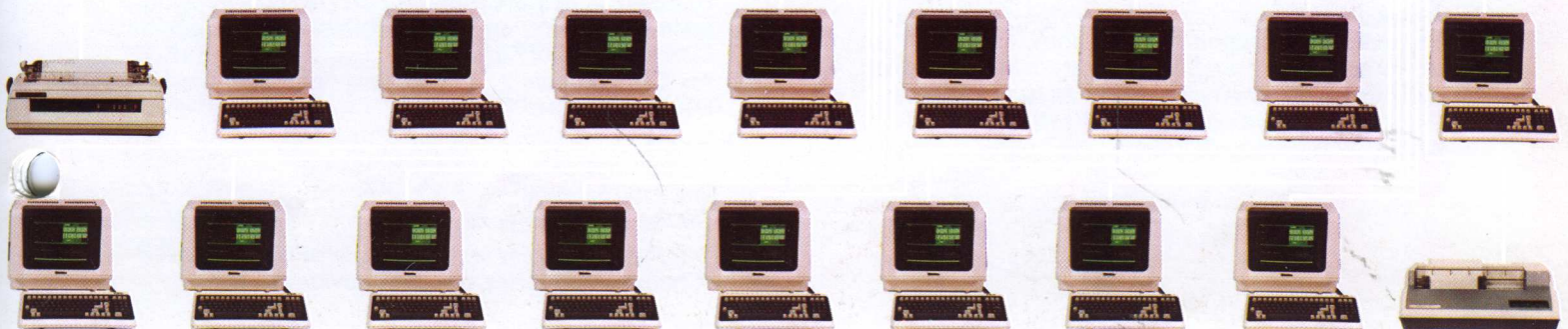


most unique and versatile microcomputer systems on the market. Disk access and scheduling are super-vised for the user stations by TeleVideo's MmmOST service processor operating system.

Once CP/M and CP/M-86 and applications programs are downloaded into the TS 800 and TS 1600, the TS 800 and TS 1600 become like stand-alone personal computers. MmmOST allows the TS 800 and TS 1600 to take advantage of shared printers and modems.

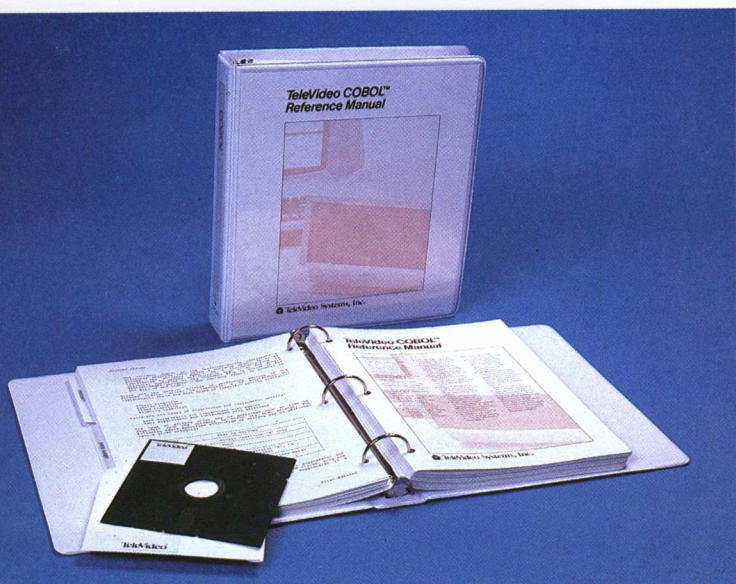
The TS 800 and TS 1600 offer the same features and capabilities, including graphics, that the TS 803 and TS 1603 respectively offer except that the central processor handles the storage.

The TS 800 and TS 1600 are powerful user station additions to your TeleVideo multi-user TS 806- and TS 816-series microcomputer systems.



TeleVideo's Software Packages

TeleVideo offers a variety of software packages to solve your business applications needs.



TeleFAST™ — Business Accounting Packages

TeleFAST, TeleVideo's accounting package, is a powerful and versatile six-module, general business applications package.

The six modules included in TeleFAST are Accounts Receivable, Order Entry with Inventory Control, Sales Analysis, Accounts Payable, General Ledger, and Payroll. These modules can be purchased separately or as a complete package.

TeleFAST currently operates on single- and multi-user 8-bit personal systems and will soon operate on TeleVideo's 16-bit personal computers as well. **We recommend using this software with a hard disk system to accommodate the growth of data files.**

TeleFAST systems were developed by MicroBusiness Software, Inc. (MBSI).

TeleFAST Features

- Six modules
- Integrated or independent operation
- MmmOST multi-user environment customization for true record/file locking
- Many run-time options for more flexibility
- Written in TeleVideo COBOL

TeleDBMS™ — Data Management System

TeleDBMS, TeleVideo's data management system, is a versatile data management system designed and customized for both the single- and multi-user TeleVideo computer systems.

Developed for business computer users and applications builders, TeleDBMS supports user-defined forms and files and powerful report generation, with fast and efficient storage. It also has a unique cross-referencing feature and help facilities at every level. Everything you want in data management is now complete in one system.

TeleDBMS was developed by UVEON Computer Systems, Inc. TeleDBMS has been customized for TeleVideo's personal computer systems.

TeleDBMS — Features

- Simple or complex form generation
- Full-screen data entry and reporting capabilities
- Large-scale data management capability
- Multiple files data retrieval and cross referencing
- Programmed function keys with keyboard overlay

TelePlan™ — Financial Modeling Program

TeleVideo's TelePlan is a financial modeling program customized for use in the MmmOST multi-user environment. TelePlan utilizes the function keys and there is a keyboard overlay for ease of use. TelePlan takes advantage of MmmOST's communication facilities by providing a custom-designed message send and receive command. At last you can have a true financial planner for up to 16 individual users.

TelePlan is more sophisticated than other software packages on the market because it contains a powerful Consolidation Module that provides extensive table-manipulation capabilities.

TelePlan addresses all levels of computation. The command menu and fully-prompting format with built-in formulas simplify the most complex computations. TelePlan also does "what-if" analysis for financial forecasting. An integral report generator makes your presentations more effective.

TelePlan's Features

Problem Solving
Cashflow Planning
Budget Preparation
Variance Reporting
Product Pricing Analysis
Financial Report Preparation

Advanced Financial Analysis
Complex Depreciation
Loan Analysis
Internal Rates of Return
Tax Computation
Balance Forward Operations

TeleVideo's Add-On Modules
Three kinds of consolidations
Variance analysis
Statistical calculations

TelePlan is an OEM version of MicroPlan developed by Chang Laboratories, Inc. for TeleVideo.

TeleCommunications Support Packages

● Tele3780 Remote Batch Emulator

IBM compatibility with TeleVideo CP/M-based personal computer systems is now available with the introduction of TeleVideo's Tele3780,™ a remote batch emulator. The Tele3780 emulates IBM 3780 and 2780 remote batch user stations allowing mainframes to communicate with TeleVideo's 800 series personal computer systems. This gives the TeleVideo microcomputer user the capability of remote distributed processing to IBM hosts as well as the ability to locally execute the vast number of CP/M applications.

Tele3780 Features

- ASCII and binary file transmission; (data rates up to 9600 bps)
- Diagnostic utilities
- Supports unattended operations
- Buffer expansion — 128, 256, and 512 bytes
- Space compression
- Command file processing
- User program interface, optional

● Tele3270 IBM 3270 Emulator

TeleVideo has expanded its capabilities toward IBM compatibility with the introduction of TeleVideo's Tele3270, an IBM 3270 Information Display System emulator. Tele3270 links TeleVideo CP/M-based personal computer systems with IBM or IBM-compatible mainframe applications programs such as TSO, CMS, IMS or CICS.

When not interacting with the mainframe application you can do financial modeling, word processing, or execute any other applications program from the vast number of CP/M-compatible software.

Multi-user IBM 3276 cluster configuration emulation, with both 8- and 16-bit user stations, followed by single-user IBM 3276 emulation on TeleVideo 1600-series systems will also be available.

Tele3270 features include:

- IBM binary synchronous protocol
- Leased lines or switched dial-up
- Data rates to 9600 bps
- Real printer or pseudo printer
- Local print support
- Diagnostic utilities

● TeleAsync

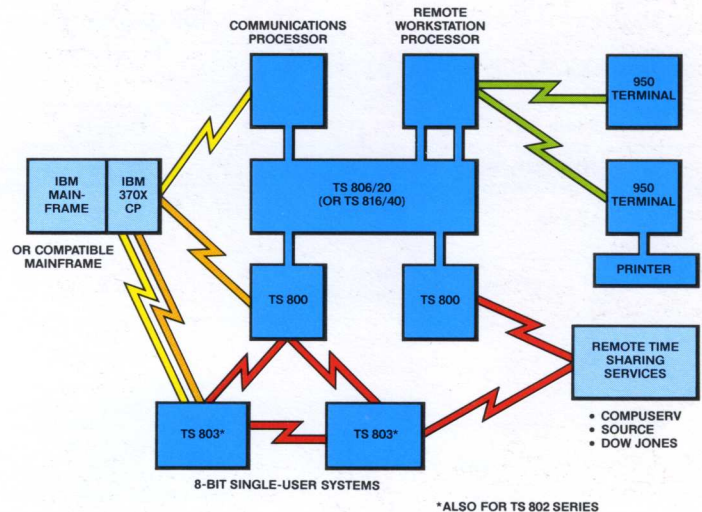
TeleAsync is an asynchronous communications software package which allows TeleVideo's personal computer systems to remotely communicate with other TeleVideo and non-TeleVideo personal computers.

TeleAsync provides:

- Auto-dial and automatic logon
- Phone directory
- Menu-driven user interface
- Terminal emulation mode for communications with remote time sharing services, including Source, Dow Jones, CompuServ
- Error-free file transfer protocol

- General purpose file transfers including text, binary programs, source programs, data
- Automatic re-transmission upon error detection
- Support for multiple modem types
- Unattended operations at remote site

TeleAsync also includes a remote access facility which enables a TeleVideo personal computer at a remote site to be a "host" for another remote terminal or system.



● Remote Workstation Processor

TeleVideo's Remote Workstation Processor (RWP) allows you to continue taking advantage of the cost effectiveness of TeleVideo's networked multi-processor systems as you expand your business to multiple locations. By adding the RW Processor to your present TS 806- or TS 816-series service processor, you can configure your system for both local and remote workstations.

The RW Processor is the connecting link between a networked multi-processor system and a remote user station which allows the remote user station to function like a locally-connected TeleVideo TS 800 or TS 800A user station.

Remote Workstation Processor Features

- Compatible with existing applications programs
- Transparent to TS 806/20 and TS 816/40 service processor
- Expandable to support up to four remote user stations per RWP module
- Compatible with any standard asynchronous modem
- Optional support for integral Bizcomp model 1012TV, 212A-compatible board level modem
- TeleVideo model 950 terminal used as remote workstation
- Remote printer support for hard copy output

Specifications

	TS 800	TS 1600	TS 806/20	TS 816/40
Number of Users	1 (User Satellite)	1 (User Satellite)	6	16
Microprocessor	Z80A	8088	Z80A	Z80A
Microprocessor Speed	4 MHz	5 MHz	4 MHz	4 MHz
Memory – RAM	64KB (Expandable to 128K)	128KB (Expandable to 256K)	64KB	128KB
EPROM	8KB	4KB	4KB	4KB
On-Line Storage – Floppy Disk	N/A	N/A	One 5¼"	One Tape Drive
Capacity (unformatted)	N/A	N/A	0.5 MB	N/A
Capacity (formatted)	N/A	N/A	0.367	N/A
Access Time (track to track)	N/A	N/A	6 msec	N/A
Data Transfer	N/A	N/A	250 Kb/sec	N/A
On-Line Storage – Hard Disk	N/A	N/A	One 5¼" Winchester	One 8" Winchester
Capacity (unformatted)	N/A	N/A	19.14 MB	42.7 MN (HD) 17.4 MB (TD)
Capacity (formatted)	N/A	N/A	15.04 MB	33.2 MB (HD) 14.5 MB (TD)
Access Time (track to track)	N/A	N/A	3 msec	15 msec
Data Transfer	N/A	N/A	5 Mb/sec	4.34 Mb/sec
Operating System	CP/M® 2.2	CP/M®86	CP/M® 2.2	CP/M® 2.2
Service Operating System	MmmOST™	MmmOST™	MmmOST™	MmmOST™
Power – Voltage	115/230 VAC	115/230 VAC	115/230 VAC	115/230 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Consumption	65 watts	100 watts	100 watts	200 watts
Dimensions – Height	14.5"	14.5"	7.3"	8"
Width	17"	17"	17.5"	17.5"
Depth	14"	14"	16.9"	21.9"
Serial Ports RS-232C	2	2	1	2
RS-232C (ASCII Terminal)	0	0	1	1
RS-422 (Satellite Station)	1	1	6	16
Parallel Port (Centronics Printer)	0	0	1	1

	TS 802	TS 802H	TS 803	TS 1603
Number of Users	1	1	1	1
Microprocessor	Z80A	Z80A	Z80A	8088
Microprocessor Speed	4 MHz	4 MHz	4 MHz	5 MHz
Memory – RAM	64KB	64KB	64KB (Expandable to 128K), 32K alpha & graphic display memory	128KB (Expandable to 256K, 32K alpha & graphic display memory)
– EPROM	4KB	4KB	8KB	4KB
On-Line Storage – Floppy Disk	Two 5¼"	One 5¼"	Two 5¼"	Two 5¼"
Capacity (unformatted)	1.0 MB	0.5 MB	1.0 MB	2.0 MB
Capacity (formatted)	.736 MB	0.367	.736 MB	1.31 MB
Access Time (track to track)	6 msec	3 msec	6 msec	6 msec
Data Transfer	250 Kb/sec	250 Kb/sec	250 Kb/sec	250 Kb/sec
On-Line Storage – Hard Disk	N/A	One 5¼" Winchester	N/A	N/A
Capacity (unformatted)	N/A	9.6 MB	N/A	N/A
Capacity (formatted)	N/A	7.4 MB	N/A	N/A
Access Time (track to track)	N/A	3 msec	N/A	N/A
Data Transfer	N/A	5 MB/sec	250 Kb/sec	250 Kb/sec/MS-DOS
Operating System	CP/M® 2.2	CP/M® 2.2	CP/M® 2.2	CP/M® 8.6
Service Operating System	MmmOST™	MmmOST™	MmmOST™	MmmOST™
Power – Voltage	115/230 VAC	115/230 VAC	115/230 VAC	115/230 VAC
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Consumption	150 watts	150 watts	100 watts	100 watts
Dimensions – Height	13.5"	13.5"	14.5"	14.5"
Width	22"	22"	18.5"	18.5"
Depth	14.4"	14.4"	14"	14"
Serial Ports RS-232C	2	2	2	2
RS-232C (ASCII Terminal)	0	0	0	0
RS-422 (Satellite Station)	1	1	Optional	1
Parallel Port (Centronics Printer)	0	0	0	0

(Specifications subject to change without notice.)

TeleVideo Software

For single- or multi-user business environments, the combination of TeleVideo hardware with the many available software language and applications programs can answer your needs for a complete and powerful business computer system.

TeleVideo's microcomputer systems use the CP/M operating system allowing them access to one of the largest libraries of software applications

programs on the market. TeleVideo offers or recommends a large variety of applications programs designed to fulfill your business needs. A minimum of nine CP/M-compatible languages including BASIC, FORTRAN, COBOL, PASCAL, APL, ALGOL, PL/1, FORTH and "C" can also be used on TeleVideo's systems for your programming applications. TeleVideo's multi-user environment uses the MmmOST executive operating program and a high performance COBOL.

TeleVideo's Application Software

Integrated Financial Accounting System

General Ledger, Accounts Receivable
Accounts Payable, Sales Analysis
Order Entry/Billing, Payroll
(TeleVideo/MBSI)

Data Base Management System

OPTIMUM DBMS
(TeleVideo/UVEON)

Financial Modeling

TelePlan (TeleVideo/Chang Labs)

Office Automation

(Word Processing and Financial Planning)

TeleVideo's TeleSolutions:

WordStar, CalcStar, SpellStar
DataStar, MailMerge, SuperSort
(TeleVideo/MicroPro)

Software Languages

TeleVideo COBOL
(TeleVideo/Ryan-McFarland)

Evaluated and recommended by
TeleVideo Systems, Inc.:

Business/Finance

Income Property Analysis
Project Cost Accounting for
Service Organizations
(Micro Mode, Inc.)

Inventory Control for Manufacturers
(Microcomputer Consultants)
P.O.S. System (Xtra Soft, Inc.)

Educational

ATI-Power (American Training International)

Medical

MOCS (DataMed Systems, Inc.)
Optometric System
(Professional Data Mgmt. Systems)

Office Automation

TracStar (MicroTrac Systems, Inc.)
MoreTime (Lynn-Arthur Associates)
KeyPro (Data Law Co.)
TeleWord (Micro Accounting Systems)
d BASE II (Ashton-Tate)
BenchMark (Metasoft Corp.)

Real Estate

R.E.A.L. (American Business Systems)

Science/Engineering

Architects/Contractors Project Cost System
(Micro Mode, Inc.)

Productivity Software


SalesPro (Winters Associates)
Project Management
(Computer Mgmt. Systems)
Display/Access Manager
(Digital Research)

Software Utilities

Fast Dump/Restore
(Cogitate, Inc.)

Software Languages

CBASIC 80/86/ CB-80/86, PL/1 80/86
PASCAL MT+ 80/86
(Digital Research)
MBASIC Interpreter, Compiler, COBOL 80
FORTRAN 80
(MicroSoft, Inc.)

 **TeleVideo Systems, Inc.**

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