

19-inch graphic and alphanumeric display with storage and refresh capability.

Storage Display Monitor

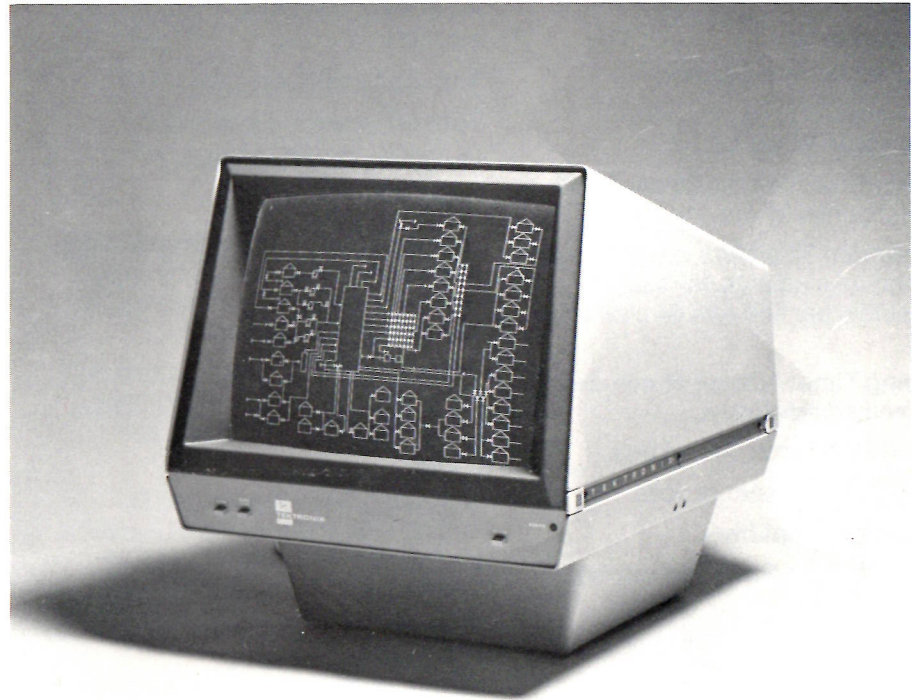
With the 619 Storage Display Monitor, the system builder has the opportunity to add a degree of graphic and alphanumeric versatility never previously possible.

The 619 is a merger of the two principal modes of visual presentations. Storage display, which Tektronix brought to a fine science with its bi-stable direct-view storage tube (DVST), conserves processing core and provides highest resolution. Refresh technology, which provides dynamic displays and easy editing, has until now included graphics capability only at a prohibitive price.

Now storage and write-thru refresh are both available from one monitor at the kind of low price for which Tektronix is famous.

Getting it together. The 619 incorporates a high-speed deflection system, and allows for a vector generator and digital memory to vastly improve upon the write-thru feature present in embryonic form in all DVST's. As a result, the 619 is capable of presenting up to 1600 centimeters of refreshed vectors along with as many as 20,000 vectors or 8000 characters of storage display.

The 619 can work with digital to analog converters to provide display of information from digital computers as well as analog sources. The X and Y inputs are analog, with the beam resting at center screen with zero volts applied. The 619 screen maintains Tektronix' famous high-resolution—up to 12 million addressable picture elements (3,000 x 4,000 matrix).



Refreshingly versatile. Your customers may select the mode that best accommodates their kind of information output. Display functions are all completely programmable and designed to interface to digital TTL logic. These remotely controlled functions may include the **Write-Thru** feature, which produces vectors of excellent integrity and constant brightness; **Brite and Defocus**, to increase spot size and brightness slightly when displaying long vectors; and **Center**, which resets the origin shifter which protects the CRT in repeated over write operations.

Other functions under remote command are **Erase**, for complete screen cancellation; **Copy**, which initializes hard copy when available; **View**, which switches the 619 back to full brightness after the non-programmable Hold Mode has stored data at a low brightness after 90 seconds of display inactivity.

The 619 provides signal display status to the processing system to indicate whether or not additional data will be accepted.

Should X and Y deflection be lost, a CRT anti-burn circuit is provided to protect the phosphor from burning.

Finally, Tektronix provides excellent hard copy capability in the 4631 Hard Copy Unit—a reliable, high-resolution tool that produces clean, dry copies in seconds.

The 4631 is designed for jam-free transport and easy maintenance, with interfacing to the 619 as simple as a plug-in.

Whatever your particular needs or special configurations, talk to your local Tektronix representative. We try to be as flexible as the 619 is versatile.

Specifications:

CRT Display and Storage

Tektronix CRT: 48 cm. (19 in.) curved face storage tube.

Display Size: Vertical 28 cm. (10.9 in.) Horizontal 37 cm. (14.4 in.)

Resolution: 32 picture elements/cm (80 picture elements/in) 133 characters per line with 64 character lines.

Viewing Time: At least 15 minutes at specified resolution.

Dot Writing Time: 5 μ s. or less.

Erase Time: 1 sec. or less.

Deflection Amplifiers

Stored Writing Rate: 15K cm/sec. (5910 in./sec.)

Write-Thru Writing Rate (for refreshed displays): 50K cm./sec. (19,685 in./sec.)

Input Sensitivity: Horizontal ± 5 V (10V P.P.) Vertical ± 3.75 V (7.5V P.P.)

Initial Beam Position: Center screen ± 2 percent.

Polarity: +X Input: +V moves beam right, -V moves beam left.
+Y Input: +V moves beam up, -V moves beam down.

Maximum Input Voltage: 18V (D.C. + peak A.C.)

Input Impedance: 10K OHM paralleled by 70pf.

Origin Shifter: 8 points used, reset to zero.

X-Y Inputs: Differential.

Z Axis

Input Requirements: TTL compatible, LO true

Turn on Level: Less than +.8V.

Turn off Level: At least + 2V.

Maximum Rep Rate: 3MHZ

Other Characteristics

Remote Control—All 619 operating modes can be controlled by applying appropriate TTL LO true signals to the interface connector.

Characteristics that can be remotely controlled are: Erase, View, Copy, Write-Thru, Brite, Defocus, and Center.

Output signals are provided to indicate the status of the 619 and an attached 4631 Hard Copy Unit. They are SLU and D BUSY (due to copy or erase functions).

Power Requirements

90 VAC to 132 VAC or 180 VAC to 264 VAC, 48Hz to 66Hz (selected by moving internal jumpers.) 250 watts maximum @115 VAC, 60 Hz.

Dimensions and Weight

Height: 57.8 cm. (22.8 in.)

Width: 50.8 cm. (20.0 in.)

Depth: 68.5 cm. (27.0 in.)

Weight: 50.8 kg. (112 lbs.)

619 Storage Display Monitor—Horizontal format only.

Peripherals—4631 Hard Copy Unit (HCU).

Tektronix, Inc.
Information Display Group
P.O. Box 500,
Beaverton, OR 97077
Telephone: (503) 638-3411
TWX: 910-467-8708
Cable: TEKTRONIX

Tektronix Datatek N.V.
P.O. Box 159
Badhoevedorp, The Netherlands
Telephone: 02968-6051
Telex: 16565
Cable: DATATEK Holland

Sony/Tektronix Corporation
9-31 Kitashinagawa-5
Shinagawa-Ku
Tokyo 141 Japan
Telephone: 445-0221
(Area 03/Tokyo)
Telex: 02422850
Cable: SONYTEK Tokyo

Tektronix Australia Pty. Limited
Sydney
80 Waterloo Road
North Ryde, N.S.W. 2113
Telephone: 888-7066
Telex: AA 24269
Cable: TEKTRONIX Australia

Tektronix Canada Ltd.
Montreal
900 Selkirk Street
Pointe Claire, Quebec H9R3S3
Telephone: (514) 697-5340
Telex: 05-821570
Cable: TEKANADA

Printed in U.S.A. U.S.A. and Foreign Products of Tektronix, Inc. are covered by U.S.A. and Foreign Patents and/or Patents Pending. All specifications subject to change without notice.

