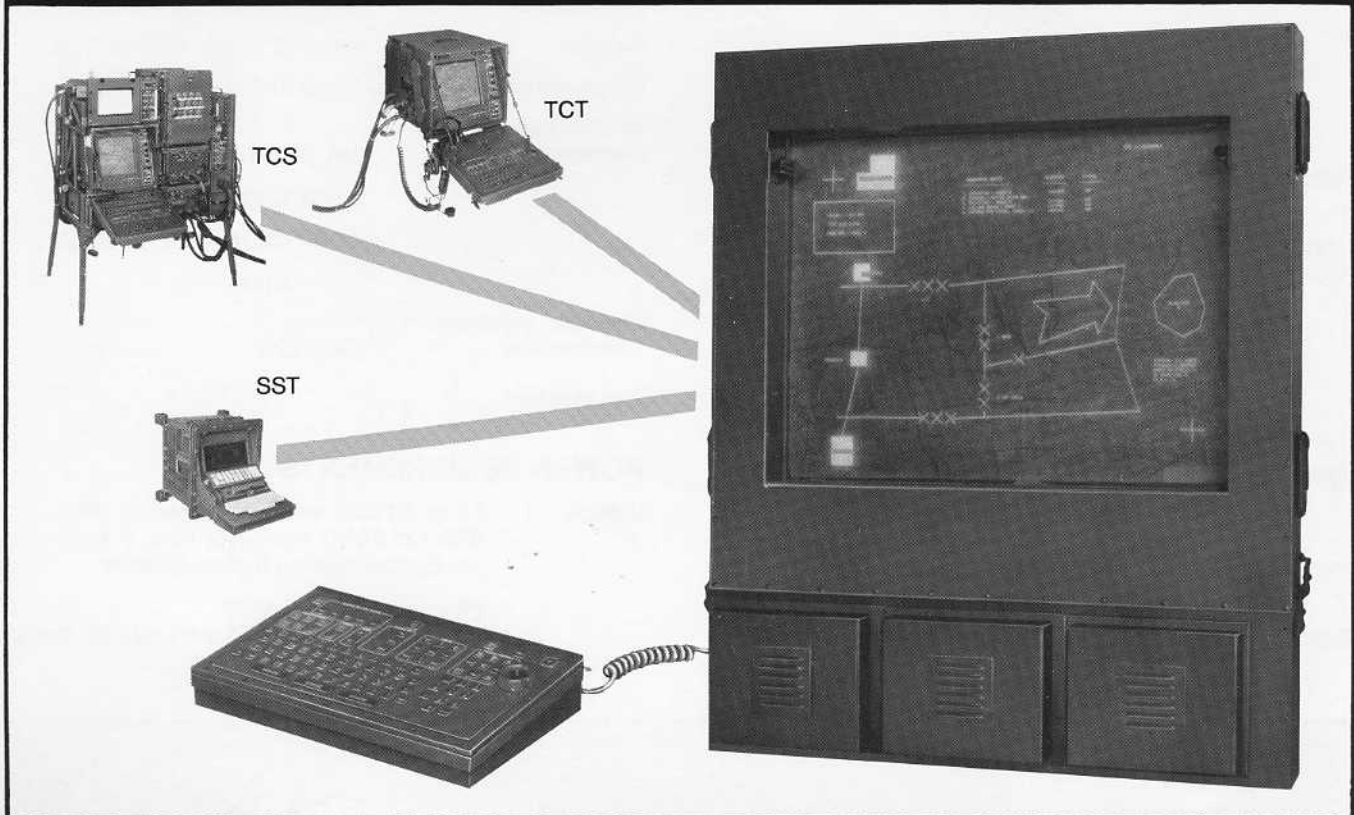


# 1 Meter Diagonal Plasma Tactical Display Terminal



## GENERAL DESCRIPTION

The 1 Meter Diagonal Plasma Panel is a microprocessor-based stand alone display system or a peripheral designed to provide U.S. Army commanders and staff personnel with a versatile display to assist in rapid and effective electronic presentation of tactical situation information. The panel displays bright graphics, symbology, and alphanumeric text all of which are overlaid on a standard military paper map or other background of the user's choice. All displayed data is controlled interactively by an operator using a standard U.S. Army TCT keyboard with joystick (optional).

The panel is suitable for tactical deployment at Division and lower echelons, for displaying unfriendly and operational environment information in variable formats. The panel readily interfaces with U.S. Army tactical command/control/communications systems.

The panel permits the integration of remotely-generated displays onto the larger area-of-interest map visible through the plasma panel. Interactive control is accomplished through the microprocessor and electronics contained in the plasma panel frame and electronic chassis. Scenarios may be drawn, edited, or erased on the plasma panel by military personnel and then provided to the appropriate echelon.

Operational data base items in a host computer system can be displayed graphically or manipulated through additional features such as zooming or scanning.

The Panel is militarized for survivability in the U.S. Army combat environment and can be installed in tactical vehicles.

## FEATURES

- 1212 x 1596 Line Display
- 60cm x 80cm Active Area
- Scale Factor
  - 1:50,000 25 meters per dot
  - 1:100,000 50 meters per dot
- Multiple Frame Local Memory
- Built-in Processor
- Serial & Parallel Interfaces
- Power 295 watts (AC or DC)
- Volume 3 ft<sup>3</sup> (.085 m<sup>3</sup>)
- Weight 220 lbs (99.89 Kg)

## ENVIRONMENTAL SPECIFICATIONS

Altitude:	Operation to 10,000 ft. Transport to 50,000 ft.	Sand and Dust:	MIL-STD-810B, Method 510, Procedure I.
Temperature:	MIL-STD-810B, Method 501, Procedure II.  Operational 45°C to 60°C. Storage 57°C to 71°C.	Salt Fog:	MIL-STD-810B, Method 509, Procedure I.
Humidity:	MIL-STD-810B, Method 507, Procedure III.	Acoustic Noise:	SCL-1280D, Para. 4.7.4.
Vibration: *	5.0 to 5.5 Hz at 1.0 inch double amplitude.  5.5 to 30 Hz at 1.5G.  30 to 48 Hz at 0.036 inch dou- ble amplitude.  48 to 500 Hz at 4.0G.	Fungus:	MIL-STD-810B, Method 508.
Shock: *	MIL-STD-810B, 15G, 11 milli- second shocks on three mutually perpendicular axes.	Bench Handling:	MIL-STD-810.
Immersion:	MIL-STD-810B, Method 512, Procedure I.	Electromagnetic Interference:	MIL-STD-461, Notice 4.  CE01 CS01 RE02 RS03  CE04 CS02 RE02.1 RS03.1  CS06
Rain:	MIL-STD-810B, Method 506, Procedure I.	Chemical, Biological, Radiological:	TM3-220

\*With Isolators.

## POWER REQUIREMENTS

Voltage:	22 to 30 VDC vehicular power per MIL-STD-1275 (AT) except for Para. 5.4 Abnormal System Without Battery Support.
	22 to 30 VDC mobile generator power per MIL-STD-1332B, Class 2C.

