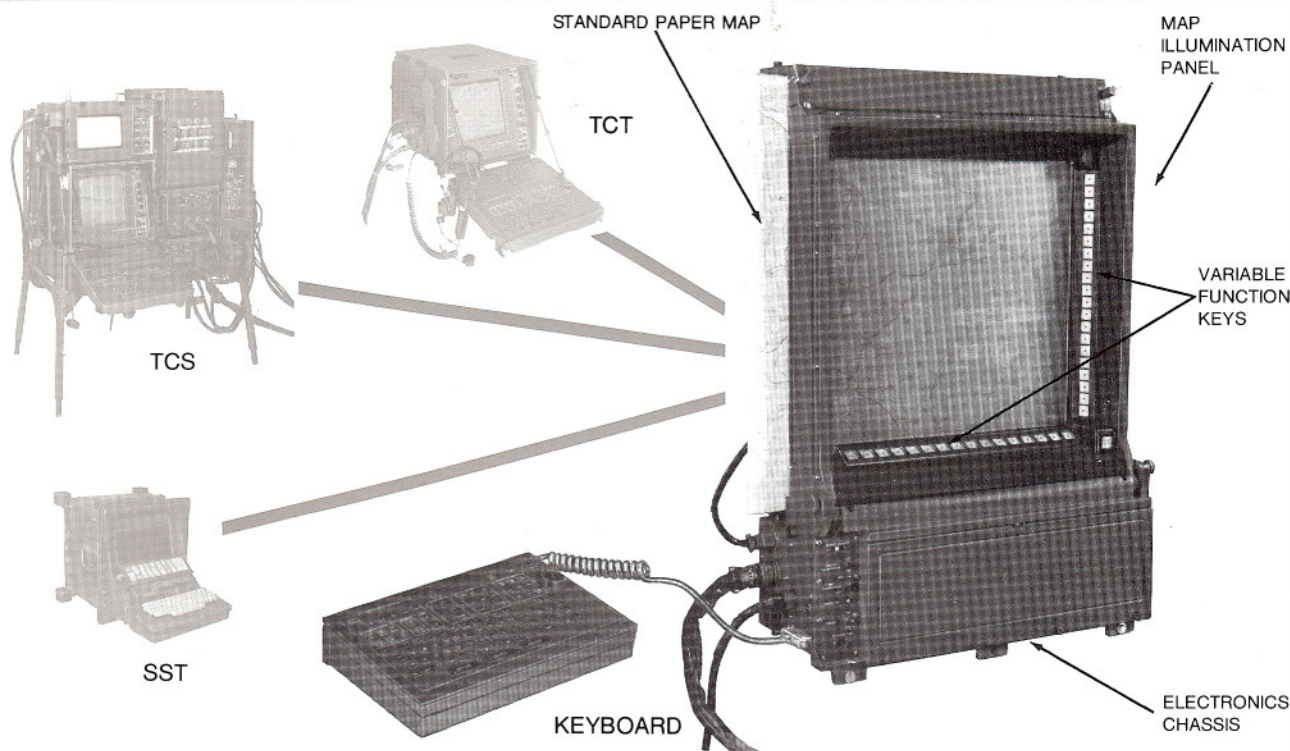


LIBRASCOPE

17 x 17-inch Plasma Tactical Display Terminal



GENERAL DESCRIPTION

The Librascope 17-inch by 17-inch 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 17 x 17-inch 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. Variable Function Keys are located about the panel perimeter and are programmed by the user to provide access to selected standard data such as map symbols from a standard symbol library.

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

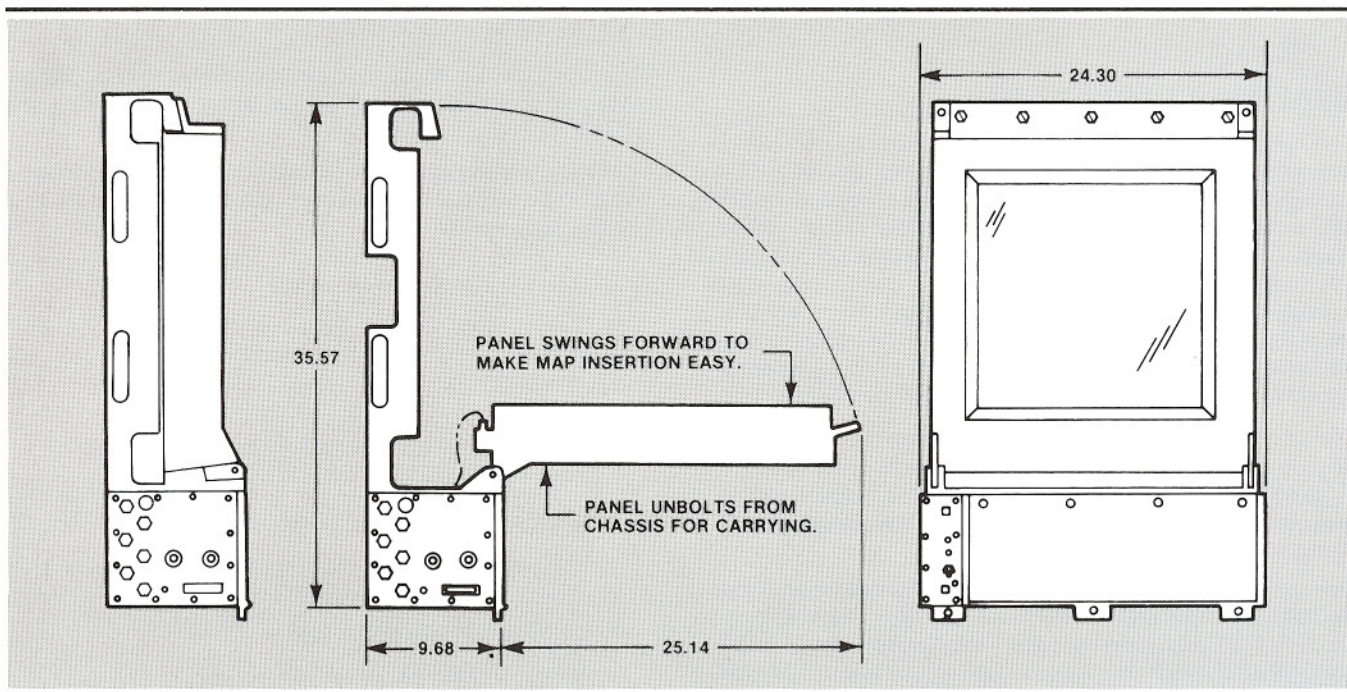
- 1024 x 1024 lines of display.
- On a 1:50,000 map, the panel displays an approximate 21km x 21km area with 20m resolution.
- On a 1:250,000 map, the panel displays an approximate 105km x 105km area, with 100m resolution.
- Microprocessor based peripheral (MC68000).
- Programmable: a) Function
b) Interface (serial or parallel)
- Up to 512K bytes CMOS RAM/ROM.
- Writing speed: 64 pixels per 2 μ sec
- Weight: Panel: 85 lbs
Keyboard: 15 lbs (optional)
Electronic Chassis: 85 lbs
- Power: 160 watts max. (AC or DC); 75 watts nominal (180 watts max. for map illumination panel)

ENVIRONMENTAL SPECIFICATIONS

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

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.



Librascope

a division of The SINGER Company

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