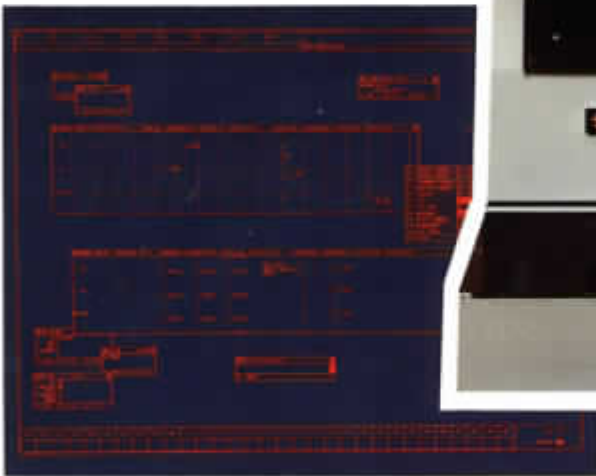


ADVANCED HIGH RESOLUTION PIXEL PLASMA DISPLAYS

Loral Librascope's plasma displays provide bright flicker-free images over a wide viewing angle. Various sizes available in military, ruggedized and commercial versions.



Sample Application Display



Display Windows and Overlays



APPLICATIONS:

- Full X-Window Support
- VxWorks Development Environment
- Intelligent Terminal
- Computer Workstation
- Fast Prototyping Platform

FEATURES:

- Fully Programmable
- TI34020 Graphics Processor
- M68030 I/O Processor
- Extensive use of VLSI
- Variable Illumination
- Monochrome, Gray Scale, and Color
- Various sizes up to 1.5 meters diagonal

LORAL
Librascope

KEY FEATURES AND OPTIONS

DISPLAY FORMAT (STANDARD)

- 24" X 17.8" display, 1728 X 1280 pixels
- 72 pixels per inch
- Various sizes also available

HIGH PERFORMANCE CHARACTERISTICS

- Update Rate 60 fps progressive scan
- Gray Scale 64 level per channel
- 262,144 Colors
- >100:1 Contrast Ratio
- Average area luminance (white) >20 fl
- Pixel Luminance:

Green	>160 fl
Red	>40 fl
Blue	>25 fl
- Viewing Angle >160 degrees
- Power Consumption <300 watts (max)

THREE NDI VERSIONS

- Mil-Spec
- Ruggedized
- Commercial

DEDICATED GRAPHICS PROCESSOR

- 4 Megabytes Video RAM
- 4 Megabytes Dynamic RAM
- 0.5 Megabyte Flash EPROM programmable in place
- Windows and Overlays
- TIGA Support
- X-Window Support

APPLICATION PROCESSOR

- VxWorks

SERIAL AND/OR PARALLEL I/O PORTS

- RS-232
- Ethernet
- NTDS
- SCSI
- Centronics
- RS-422

OPTIONS

- Touchscreen
- Pointing Device Support (Mouse or Trackmarble)
- Gray Scale
- Color

Loral Librascope's Advanced Plasma Displays are designed to meet environmental, reliability, quality, and producibility requirements utilizing Commercial Off-the-Shelf (COTS) hardware and software. Extensive use of VLSI and open system architecture on a VME card cage have been incorporated in the design to provide the ultimate combination of performance and flexibility attainable in a plasma display. These displays are already successfully in use at sea in a submarine environment.

A 32-bit Texas Instruments 34020 graphics processor provides all display functions. An industry standard graphics command set is available using the X-Windows support package, and full realtime embedded application support is provided by VxWorks. X-Windows is contained in firmware, and can support any X-Window client. Additional processors can be provided to support a specific application, maintaining a host of various environments. Four RS-232 serial I/O ports are standard, others may be added as

options. A variety of keyboards are available, including those with an integrated trackball as an alternative to the mouse.

As a key advantage to any project, the plasma display enhances the software development life cycle. VADS Works enables easy integration of C and ADA with VxWorks operating systems. The VxWorks dynamic loader allows short turn-around time for testing software modifications. The available device drivers are configurable to the chosen application processes. The application software, VxWorks, and X-Windows can all be placed in ROM.

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