

# DuraVIS 1500

## 15" XGA LVDS Vehicle Display

### Features

**Display Size:**

15"

**Resolution:**

XGA 1024 x 768

**Display interface:**

Differential LVDS – 3 signal pairs

Double buffering – supports live cable insert

Power on sequencing control

**Colours:**

16,7M

**Brightness, contrast ratio, viewing angle:**

450 cd/m<sup>2</sup>, 450:1, horizontal 150°, vertical up 65°/ down 50°

**Backlight:**

- CCF with 50.000 lamp life
- Adjustment 5% to 100%
- Manual control knob
- Delayed soft start upon power-up

**Interfaces:**

- Main data connector
- USB expansion

**Display cover:**

- 4mm thickness
- Optically treated hardened vandal proof glass

**Enclosure:**

Machined aluminium with VESA 100 mounting, M4

**Power supply:**

- +9 to +40VDC
- Galvanically isolated to 500V

**Environmental:**

- IP 65
- -20 to +70°C operating temperature



### General Description

The DuraVIS™ 1500 is a reliable and rugged off-the-shelf display unit designed to interface to Eurotech Central Units. Applications are diverse, ranging from vehicle or machine mounted displays to industrial Man-Machine-Interfaces. The Eurotech DuraVIS 1500 is an integrated, rugged stand alone flat panel TFT display unit for demanding applications. An inbuilt galvanically isolated vehicle power supply, intelligent control system and specially designed dual backlight inverters are used to increase reliability and extend display life. Integrated into a machined aluminium enclosure is a wide operating temperature automotive grade 15" 1024 x 768 XGA TFT-display. Optimal operation during night and day conditions is possible due to the adjustable backlight that can be reduced from 100% down to 5%.

Power is supplied to the display by a 35W EN50155 compliant wide input range isolated automotive class power supply. This power supply is designed to be compatible with the electrical environment of vehicle or industrial installations; overvoltage, transients, load dump, reverse polarity and short circuit conditions. Electromagnetic compliance with the EC (CE) as well as EN50155 is guaranteed.

A USB 1.1 slave expansion port can be used to attach standard peripherals to the DuraVIS1500. These devices connect to the internal USB host hub. The proprietary double buffered LVDS input is designed to support live-inserting and removal of the LVDS interface cable. Cable lengths up to 10 meters are supported using high quality cables and connectors.

## Technical Features

- Proprietary microprocessor controlled power-up sequence
- Double buffered LVDS input – live insert protected
- External USB1.1 slave port through internal USB hub
- Internal microprocessor controlled backlight
- Optional socket for USB Flash device, connected to USB hub
- 35W overload protected power supply with structural dissipation
- Proprietary multi-stage input filtering and protection circuitry for lowest emissions and automotive class immunity.
- Precision adjustment control knob for backlight control

## Physical Characteristics

- **Dimensions:** 366 (W) x 322 (H) mm
- **Thickness:** 34 mm (excluding connector box)
- **Power consumption:** 1,1A /24V typical 26,4W
- **Temperature:** -20 ~ + 70 °C (operating)  
-20 ~ + 85 °C (storage)
- **Mounting:** VESA 100 with M4 threaded bolts

## Connectors

- 19-pin sealed ODU connector
  - Power
  - USB 1.1
- M12 connector for USB 1.1 expansion device

## Compliance

- **Environmental:**  
EN50155 Cooling, EN50155-T1 dry heat (+55°C)
- **Mechanical**  
EN61373 (ed. 2000) Sections 8,9,10
- **EMC**  
Immunity ISO7637-2 Class D 2,3,4  
Emissions 2004/104/EC
- **Safety**  
EN60950

## Power Supply

- Galvanically isolated up to 500V
- +9 to 40Vdc input range
- 35W peak output power