Features

Size; Resolution
- 12.1"; SVGA 800 x 600

Colours; Brightness; Contrast ratio
- 256.000; 350 cd/m²; 500:1

Viewing angle
- Horizontal: 130°
- Vertical: up 75°, down 45°

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

Interfaces:
- Differential LVDS – 3 signal pairs
- Double buffering – supports live cable insert
- Power on sequencing control

Connectors:
- Main data connector
- USB expansion port

Display cover:
- Thickness 3mm
- Optically treated, hardened and vandal proof glass

Enclosure:
- Machined aluminium with VESA 100 mounting, M4 threaded bolts

Environmental:
- IP 65
- -20 to +70 °C operating temperature range

Power supply:
- +9 to +40 VDC
- Galvanically isolated to 500V

The DuraVIS™ 1200 is a rugged off-the-shelf 12.1" display featuring a 800 x 600 SVGA LVDS interface. It has been designed for demanding applications that range from vehicle or machine mounted displays to industrial Man-Machine-Interfaces.

The display is enclosed in an IP 65 machined aluminium chassis provided with a VESA 100 standard mounting hole pattern, and withstands a -20 to +70 °C operating temperature range.
Life and reliability are increased by the usage of special dual backlight inverters, an intelligent control system and an inbuilt galvanically isolated vehicle power supply.

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

The special treatment of the screeen allows a wide viewing angle: 130° holrizonally and 120° vertically. Optimal vision during night and day conditions is also possible due to the adjustable backlight that can be varied between 100% and 5%, or turned off.

Live inserting and removal of the LVDS interface cable is supported thanks to the characteristics of the onboard proprietary double-buffered LVDS input.
It is possible to connect the display up to 10 meters away from the central unit using high quality cables and connectors.

Two connectors to the external world are placed on the rear side.
The first is a 19-pin sealed ODU connector and includes: the LVDS channels, a USB 1.1 port and the power lines.
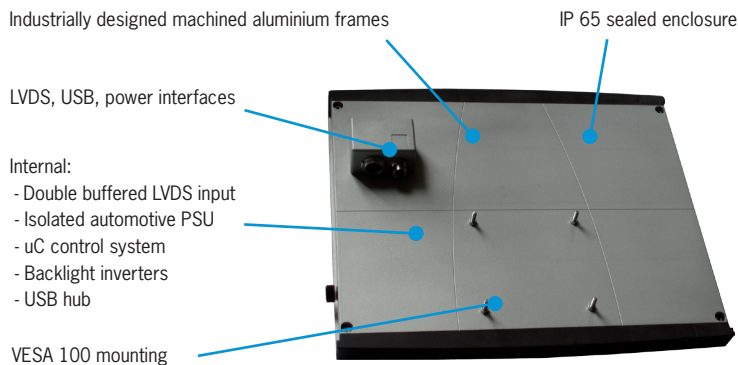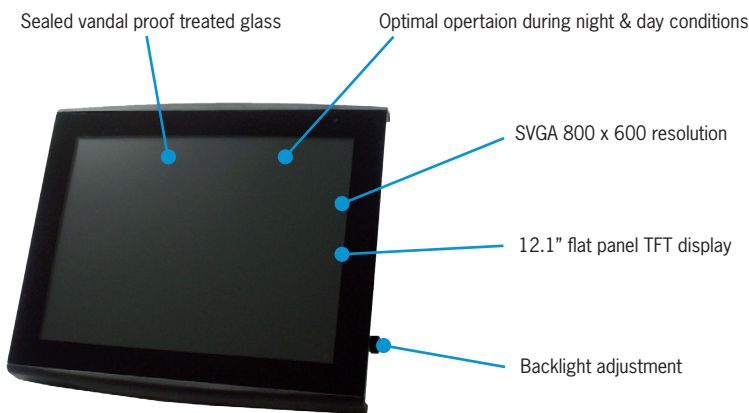The second is a 5-pin M12 sealed connector that features a USB 1.1 expansion port and allows the user to attach standard peripherals.
An internal hub allows the multiple connection of the USB ports and interfaces them with the internal microcontroller.

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Technical Features

- Proprietary microprocessor-controlled power up sequence
- Internal microprocessor-controlled backlight
- Double buffered LVDS input – live insertion protection
- External USB 1.1 slave port through internal USB hub
- Socket for USB 1.1 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 knob for backlight control

Sealed vandal proof treated glass

Optimal opertaion during night & day conditions

SVGA 800 x 600 resolution

12.1" flat panel TFT display

Backlight adjustment

Industrially designed machined aluminium frames

IP 65 sealed enclosure

LVDS, USB, power interfaces

Internal:
- Double buffered LVDS input
- Isolated automotive PSU
- uC control system
- Backlight inverters
- USB hub

VESA 100 mounting

Physical Characteristics

DIMENSIONS	320 (W) x 272 (H) mm
THIKNESS	34 mm (excluding connector box)
POWER CONSUMPTION	0.7 A/24V (16.8) typical
TEMPERATURE	-20 ~ +70 °C operating
	-20 ~ +80 °C storage
WEIGHT	3.4 kg (approximate)
MOUNTING	VESA 100 with M4 threaded bolts

Connectors

- A 19-pin sealed ODU connector featuring:
  - 3 LVDS Channels
  - One 1.1 USB port
  - Power lines
- A 5-pin sealed M12 connector featuring:
  - One 1.1 USB expansion port

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 ~ +40 Vdc input range
- 35W peak output power

About Eurotech

EuroTech delivers embedded computer systems for high capability and low power applications, networking and wearable computing solutions, and application framework middleware for multimedia, industrial, transportation, medical, and wireless applications. EuroTech platforms allow OEM and enterprise customers to focus on their core revenue-generating products and services and get to market quickly.

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