



 **Smart Vision** > Smart Displays

Aeronautic Multifunctional Displays

High-Performance Aeronautic Multifunctional Displays for both military and civil aircraft. This equipment is currently in service in the EF 18 of the Spanish Air Force.

Key advantages:

Smart display with high processing capability.

Video presentation from multiple systems (RADAR, FLIR, etc.).

Eliminate need for external symbol generator.

Excellent optical performance thanks to the color AMLCD.

Night Vision Imaging System (NVIS) compliant.

Field proven reliability in combat aircrafts (EF 18 of the Spanish Air Force).

Main Features

- High processing capability displays based on an architecture, including 3 processor boards. Functionality is distributed depending on criticality.
- A-MFD are designed to operate in combat military aircrafts (fighters), they could be adapted to civil aviation to take part of a Glass Cockpit.
- Displays are capable to present any type of analog, discrete or IP video signal in real-time.
- Units provides a configurable button panel which makes possible the interface between system and operator and other equipment on board.
- NVIS function included.
- Possibility to incorporate a polarized display to avoid any reflections into the cabin.
- Video and graphics generation and presentation simultaneously.
- Communication and presentation of the data received from Mission Computer (MC) by using the military communication standard MIL-STD-1553 (adaptable to other standards).
- Capacity to integrate the communication bus with the radar, which allows image presentation from multiple devices (radar, FLIR,...). Analog and/or discrete inputs with the cockpit switches.
- Adjustable Display brightness and contrast.
- AMFD family is modular and scalable.
- Processor boards based on SoC ZYNQ 7000 (with 2 ARMs inside). Critical, Safety and graphics processing functions are modular-distributed into the different processor boards.

Interfaces

1553 (2)
 Gb Ethernet (1)
 Analog video output (1)
 Analog video input (2)
 HDMI output (1)



Detailed Characteristics

| | |
|---------------------|--|
| Dimensions | 15,72"x8,25"x6,70" (adaptable) |
| Active Display Area | 5.03"x5.03" (adaptable) |
| Resolution | 600x600 pixels (optional 1280 x 1280) |
| Display Colors | 8 bit RGB |
| Pitch | 119 pixels per inch |
| Aspect Ratio | 1:1 |
| Brightness | 300 FL Max. |
| Viewing Angle | ±15°V ±20°H (CR> 200 in normal light conditions. CR>9 in high lighting environmental conditions) |
| NVIS Mode | Yes (compatible with amplifiers Type I/II class B) |
| Selection Keys | 20 function keys with illumination |
| Touch Screen | Optional |
| Heater | Tipo ITO |



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