

## COLOR MONITOR – MK5000 SERIES

---

Monitor of this series are an OEM unit, the TFT-LCD technology with LED backlight is used. The Unit are available in Ruggedized and MIL Spec version. They are suitable for Cockpit; front panel and rear panel mounting version are available.

The monitors are designed to provide a right angle of view, operation in hostile environments and a long service life.

All electronics are inside the monitor including the backlight driving. The standard version include two user connectors; one for power and one for the video and dimming command. The standard interface is LVDS type, on request can be supplied a different video interface.

The Monitor series cover a wide range of size: from 5.5 inch to 46 inch.

Sunlight readable versions can be supplied and housing suitable for outdoors use.

### FEATURES

- Structure in light alloy and custom design
  - Available in MIL Spec and Industrial Grade
  - Easy Installation
  - EMI/RFI Spec Compliance
  - Solid State Backlight a LED
  - Low Cost
- 



Sede Legale: Località Miole snc, 67063, Oricola (AQ), Italy  
Tel +39 0863909003 – Fax +390863907616  
Capitale Sociale Euro 91.800,00 i.v. – C.F. & P.IVA 01386350662  
Registro Società 85325 Avezzano (AQ) - C.C.I.A.A. 62112 L'Aquila  
Email [info@gaengineering.com](mailto:info@gaengineering.com) – Web: <http://www.gaengineering.com>  
Certificazioni: ISO 9001, ISO 14001



## GENERAL SPECIFICATIONS

The following requirements are general ones for display MIL Spec.

The non-specified requirements are depending on the size of the monitor and/or can be customized.

Video Interface:	LVDS (6 or 8 bit)
Dimming Command:	Analog or PWM
Display Treatment:	Glass Antireflective Type
View Area Emi Protection:	Internal Mesh
Power Supply Voltage:	5VDC to 36VDC standard
Temperature Operating Range:	-30°C to +70°C standard
Temperature Storage Range:	-40°C to +70°C standard
Humidity Range:	0% to 90% RH (no condensation)
Luminance:	[cd/m <sup>2</sup> ] 800Min 1000Typ
Contrast Ratio:	600Min, 900Typ
Back Light type:	LED
Shock	75 G's MIL-STD-202, metodo 213 cond B
Vibration	15 G's da10 a 2.000Hz MIL-STD-202, mtd 204 c B
Dielectric Withstanding Voltage	MIL-STD-202, mtd 301
Low Pressure	MIL-STD-202, mtd 105 cond C
Salt Spray	MIL-STD-202, mtd 101 cond B
Insulation Resistance	MIL-STD-202, mtd 302 cond B
Sand & Dust	MIL-STD-202 mtd 110 cond B
Seal	Drip proof, MIL-STD-108
EMI/RFI	MIL-PRF-22885
External Finishing	MIL-A-8625
RoHS	Compliance
Internal Finishing	MIL-C-5541
Preservation & Packaging	MIL-S-24317 para 5

Preliminary Issue – Date: May 06, 2012

© G & A Engineering S.r.l., 2012 – All rights are reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner.

---

It is our intention to provide you with the best documentation possible to ensure successful use of your product. If you wish to provide your comments on organization, clarity, subject matter, and ways in which our documentation can better serve you, please FAX your comments.

The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.