

DM-1131



12" vetronics display system

Main features & benefits:

- High level of ruggedization
- Unique front bonding technology keeps the display condensation-free and provides superior optical performance at all times
- 20 user-definable function buttons
- Uncompromised thermal vision capability in high resolution
- Symbol Generator for dynamic graphics overlay
- On-Screen Display for text overlay
- Rapid HMI development and customization with ActEv
- Serial control of peripheral devices
- CAN-Bus communication

Barco's DM-1131 is a 12" 1024x768 XGA flat panel display, which has been specifically designed for observation and driver enhancement on board rugged vehicles.

The DM-1131 can handle a wide range of external RGB and video sources, including digital maps and FLIR. Furthermore, the display offers extensive functionality, including 20 user-definable function buttons, a powerful symbol generator for fast graphics overlay and on-screen display functionality.

Barco's DM-1131 offers the option of ActEv, an easy-to-use software development tool that allows to implement the end-user's desired functionality into the display system by assigning actions to events. It allows system integrators to generate customized software applications, fully tailored to their clients' needs.

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Technical specifications

ELECTRO OPTICAL

Panel type:	Color a-Si TFT Active Matrix LCD
Panel size:	12.1" (310 mm) diagonal
Panel resolution:	XGA - 1024 x 768 pixels
Pixel dimensions:	0.240 mm (H) x 0.240 mm (V)
Image dimensions:	245.76 mm x 184.32 mm (9.676" x 7.257")
Panel specifications:	16M colors (3x8 bit processing) with dithering 256 greyscales (3x8 bit processing) with dithering
Peak white luminance:	
Standard:	Typ. 280 cd/m ² (81.72fL)@25°C ambient
EMI Mesh:	Typ. 210 cd/m ² (61.3fL) @25°C ambient
Contrast ratio:	300:1 @ dark environment
Dimming ratio:	200:1
White uniformity:	Typ. 25% non-uniformity
Viewing angle (typ.):	Horizontal 60° Left and Right @ CR ≥ 10 Vertical Up 40°, Down 50° @ CR ≥ 10

INPUTS

Video:	Standard 2 differential inputs (PAL, NTSC, STANAG B, STANAG C)
RGB:	1 input
Supported resolutions:	DOS, VGA, SVGA, XGA
Communication:	Up to 2 serial channels, switchable between: RS-232 and RS-422
Connectors:	Dual MIL CAN MIL-C-38999/3

OUTPUTS

Video:	1 slave output, non-differential 1 recorder output, non-differential
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MECHANICAL DATA

Mounting:	4 X M6 captive bezel bolts
Orientation:	All orientations
Weight:	Max. 7.1 kg (15.6 lbs)
Cooling:	Natural convection, no fans installed
Dimensions:	(WxH) 300 mm (11.811") x 240 mm (9.449")
Depth:	95 mm (2.74")

ENVIRONMENTAL

Low operating temp.:	-33°C / -27.4°F	DEF STAN 00-35
High operating temp.:	+55°C / +131°F	DEF STAN 00-35
Low storage temp.:	-33°C / -27.4°F	DEF STAN 00-35
High storage temp.:	+71°C / +159.8°F	DEF STAN 00-35
Humidity:	Test CL-6	DEF STAN 00-35
Vibration:	4 hrs per axis DEF STAN 00-35 Pt 5/3 Chapter 6-01 fig 8	
Shock:	30 g-12.5 ms half sine	MIL-STD-810 D
EMI/EMC:	DEF STAN 59-41 Class A	
Drip proof:	IP 65	
Altitude (operating):	Up to 3,000 m	MIL-STD-810E
Altitude (storage):	Up to 12,000 m	MIL-STD-810E
Sand & dust, salt fog:	Analysis	MIL-STD-810
MTBF:	9,525 hours GM 40°C	MIL-HDBK-217F

POWER

Power supply:	28 VDC	MIL-STD-1275B
Max. Power consumption:		
Without Symbol Generator:		145 W
With Symbol Generator:		150 W

CONTROLS & INDICATORS

Bezel controls:	20 programmable function buttons Push button, metal dome Programmable, dimmable backlight and key status indicators
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AcTev TOOLBOX

DM-1131 (SG) is fully AcTev compatible.

OPTION

Symbol Generator:	For complex and dynamic graphical overlay
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In search of continuous improvement

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Technical specifications are subject to change without prior notice

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