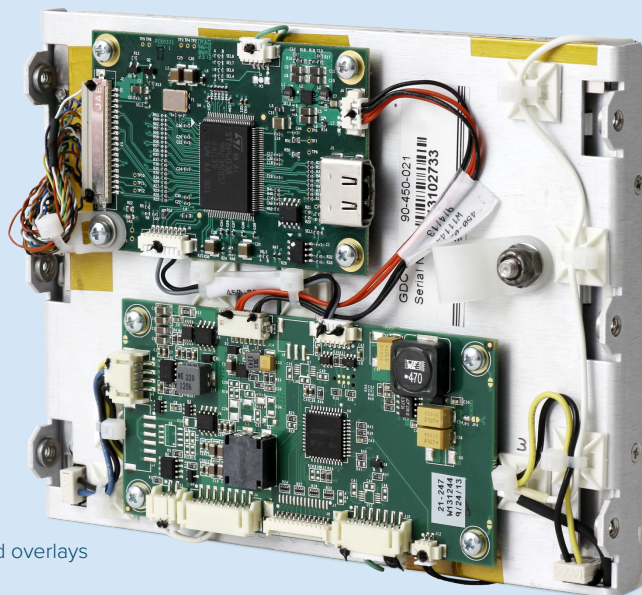


DISPLAY HEAD ASSEMBLY™ SOLAR/NVIS 6.5 TS-EMI

High Bright NVIS Compatible 6.5" LCD Screen with Touch Screen and EMI Filter



Display Head Assembly 6.5 shown with optional HDMI video controller board and overlays

STANDARD FEATURES

- » 6.5", 1024 x 768 Resolution
- » 6:1 Sunlight Readable Contrast
- » Highly Efficient LED Backlight
- » Sunlight Readable LED Backlight Produces 1000+ nits
- » Optical Bonding
- » Projected Capacitive Touch Screen
- » EMI Filter
- » LVDS (Low Voltage Data Signal)
- » Selectable 8-bit or 6-bit Digital Signals of RGB
- » Wide Viewing Angle
- » Wide Temperature Range

OPTIONS

- » Custom Bezels, Enclosure
- » HDMI Video Controller Board
- » Antireflective or Antiglare Protective Glass Overlay
- » Various Overlays (Heaters, Vandal Shields, More)
- » LED Backlight Controllers

DISPLAY HEAD ASSEMBLY™ SOLAR/NVIS 6.5 TS-EMI

BASIC SPECIFICATIONS^{1, 2}

Display	Sunlight Readable, NVIS Compatible, Dual Mode, High Efficiency LED Backlight (General Digital manufactured)
Luminance (dark room) @ Power	3500 cd/m ² @ 9.23 W ³ 2000 cd/m ² @ 5.64 W 1260 cd/m ² @ 3.24 W ⁴ 1000 cd/m ² @ 2.25 W 650 cd/m ² @ 1.60 W ⁵
NVIS-B Radiance	Compliant (see NVIS data below)
NVIS White	Compliant (see NVIS data below)
Module Size (mm)	153.0 (W) x 118.0 (H) x 9.0 (D)
Display Area (mm)	132.096 (H) x 99.072 (V)
Display Size (diagonal)	6.5 inches
Drive System	A-Si TFT Active Matrix
Display Color	16.7 Million Colors
Pixels	1024 (H) x 768 (V)
Pixel Arrangement	RGB Vertical Stripe
Dot Pitch (mm)	0.043 (H) x 0.129 (V)
Viewing Angle	Horizontal: ±80°; Vertical: +80°, -60° (at the contrast ratio > 10:1)
Polarizer Surface	Clear + Antireflection
Polarizer Pencil-Hardness	2H (minimum)
Color Gamut (against NTSC color space)	36% typical (at LCD panel center)
Response Time	Ton + Toff (10–90%); 25 ms (typical)
Signal System (8-bit Digital Signals for Data of RGB Colors, Dot Clock [CLK], Data Enable [DE])	LVDS 1 Port
Power Supply Voltage	LCD Panel Signal Processing Board: 3.3 V
Storage Temperature	-30°–80° C
Operating Temperature	-20°–70° C
Weight	170 g

DISPLAY HEAD ASSEMBLY™ SOLAR/NVIS 6.5 TS-EMI

CONTRAST (per MIL-L-85762-A) WITH PROJECTED CAPACITIVE TOUCH SCREEN & EMI FILTER⁶

Luminance (dark room)	Contrast (dark room)	Weber Contrast (sunlight conditions)	Weber Class
3500 cd/m ²	577:1	8.23	5
2000 cd/m ²	552:1	5.41	5
1200 cd/m ²	614:1	3.16	4
1000 cd/m ²	645:1	2.37	3
650 cd/m ²	670:1	1.55	2

NVIS nLRB COLOR	OEM ANTIREFLECTIVE OVERLAY	PROJECTED CAPACITIVE TOUCH SCREEN & EMI FILTER
U'	0.197	0.198
V'	0.506	0.506
Error Radius (max. passing = 0.04)	0.020	0.020

NVIS nLRB COLOR	OEM ANTIREFLECTIVE OVERLAY
NVIS Radiance B (max. passing = 2.2 nW/cm ² /sr)	0.828 nW/cm ² /sr (Compliant)

1 Specifications other than Luminance are based on the manufacturer data sheet.

2 Available with optional NVIS capability.

3 Rail temperature of 50° C.

4 For customer comparison: At OEM power consumption, the modified display achieves greater brightness than the unmodified OEM display.

5 For customer comparison: At OEM brightness, the modified display consumes less power than the unmodified OEM display.

6 All data obtained while driven by a Kikisui PAD35-10L power supply. Measurements were taken with a Minolta CS-100 photometer.

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