

NVIS DISPLAY SERIES

The 25.1" rugged display module is designed for advanced avionics and mission applications requiring a wide horizontal field of view and high information density. Based on an LED-backlit AMLCD with 2560 x1024 resolution and true 8-bit color depth, the display delivers sharp imagery, high contrast, and stable color performance across its 20"x 8" active display area, making it ideal for panoramic maps, sensor fusion, and tactical displays.

The display incorporates a fully ruggedized optical stack, including ITO-coated heater glass with aluminum busbars, woven wire mesh for EMI shielding, and anti-glare glass with broadband anti-reflective coating to ensure excellent readability under high ambient light. All optical layers are optically bonded using OCA for improved durability and optical efficiency. Supporting both normal and night operations, the display complies with MIL-STD-3009 Type-2, Class-B/Class-C and is compatible with Generation III+ NVG systems, enabling reliable performance across all mission conditions

21.5" Sunlight Readable AMLCD with NVIS Dual Mode

- Cost effective
- Very high reliability
- Life-of-the-aircraft, solid-state LED light source with low cost of ownership LED array
- Low weight
- Low operating temperature
- Very low power consumption for increased LRU power budget
- Full night-vision compliance optional (NVIS Class B. Compatible with NVIS Class B & C Goggles)
- Vivid primary colors
- Very wide viewing angle



General Specifications		
LCD Type	AMLCD 25.1 inch	
Resolution	2560 pixels x 1024 pixels (H)	
Action Display Area	507.6 x 203.1 mm	
Aspect Ratio	5:2	
Operating Temperature	-55 °C to +55 °C	
Intermittent Operation	71 °C	
Storage Temperature	-55 °C to +90 °C	
Altitude	50000 ft	
Video Input	LVDS	
Optical Characteristics		
Luminance:	Typically 900 cd/m ²	
Uniformity	1.33%	
Contrast	1000:1	
Day Mode Brightness :	> 550 cd/m ² (Max)	
Night mode Brightness :	0.18 cd/m ² (Min)	
Viewing Angle		
Horizontal axis	-80° to +80°	
Vertical axis	-80° to +80°	
Response Time	Rising - 13 msec Falling 12msec	
Pixel Pitch	0.1983 X 0.1983 mm	
Number of colors	16.2M /262k colors	
Chromaticity	CIE 1976	
NVIS		
Compatibility	MIL-STD-3009 Type I/II, NVIS Class B ; MIL-L85762 Type I/II, NVIS Class B B	
NVIS Backlight u' ang v' Parameters		
White Light	u'	0.19
	v'	0.49
Red Light	u'	0.45
	v'	0.55
Green Light	u'	0.131
	v'	0.623
Blue Light	u'	0.175
	v'	0.310
Heater		
W-W Resistance	12 ohms nominal	
Power Consumption	75 W Max	
EMI Glass		
Thickness	3mm	
Surface	AR Coating	
EMI Shielding Type	Mesh Film	

Electrical Interface					
Pin	Symbol	Function	Pin	Symbol	Function
1	NC	No Connection	41	DCo-	Ch C Data 0 (-)
2	DAO-	Ch A Data 0 (-)	42	DCo+	Ch C Data 0 (+)
3	NC	No Connection	43	GND	Ground
4	DAO+	Ch A Data 0	44	DC1-	Ch C Data 1 (-)
5	GND	Ground	45	DC1+	Ch C Data 1 (+)
6	DA1-	Ch A Data 1 (-)	46	GND	Ground
7	GND	Ground	47	DC2-	Ch C Data 2 (-)
8	DA1+	Ch A Data 1	48	DC2+	Ch C Data 2 (+)
9	GND	Ground	49	CLKC-	Ch C Clock (-)
10	DA2-	Ch A Data 2 (-)	50	CLKC+	Ch C Clock (+)
11	GND	Ground	51	DC3-	Ch C Data 3 (-)
12	DA2+	Ch A Data 2	52	DC3+	Ch C Data 3 (+)
13	BIT	Error Status	53	GND	Ground
14	CLKA-	Ch A Clock (-)	54	DDo-	Ch D Data 0 (-)
15	T-BIST	Built-in Self	55	DDo+	Ch D Data 0 (+)
16	CLKA+	Ch A Clock (+)	56	GND	Ground
17	GND	Ground	57	DD1-	Ch D Data 1 (-)
18	DA3-	Ch A Data 3 (-)	58	DD1+	Ch D Data 1 (+)
19	GND	Ground	59	GND	Ground
20	DA3+	Ch A Data 3	60	DD2-	Ch D Data 2 (-)
21	VDD	Logic Power	61	DD2+	Ch D Data 2 (+)
22	DBo-	Ch B Data 0 (-)	62	CLKD-	Ch D Clock (-)
23	VDD	Logic Power	63	CLKD+	Ch D Clock (+)
24	DBo+	Ch B Data 0 (+)	64	DD3-	Ch D Data 3 (-)
25	GND	Ground	65	DD3+	Ch D Data 3 (+)
26	DB1-	Ch B Data 1 (-)	66	GND	Ground
27	GND	Ground	67	V_LED	Backlight Power
28	DB1+	Ch B Data 1 (+)	68	V_LED	Backlight Power
29	GND	Ground	69	V_LED	Backlight Power
30	DB2-	Ch B Data 2 (-)	70	V_LED	Backlight Power
31	GND	Ground	71	LED_GND	Backlight Ground
32	DB2+	Ch B Data 2 (+)	72	LED_GND	Backlight Ground
33	VCC	Driver Power	73	LED_GND	Backlight Ground
34	CLKB-	Ch B Clock (-)	74	LED_GND	Backlight Ground
35	VCC	Driver Power	75	EN	Backlight Enable
36	CLKB+	Ch B Clock (+)	76	PWM	Brightness Dimming
37	VCC	Driver Power	77	SDA	I ₂ C Data
38	DB3-	Ch B Data 3 (-)	78	SCL	I ₂ C Clock
39	VCC	Driver Power	79	NC	No Connection
40	DB3+	Ch B Data 3 (+)	80	GND	Shield Ground

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The information and data given are typical for the equipment described. However, any individual item is subject to change without any notice

Tactical Systems Pvt Ltd

#12, 2nd & 3rd Floor, 13th Main, 2nd Cross,
Vasanth Nagar, Bangalore 560001
cell: +91.98452.93109

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Specifications subject to change without notice.

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