

SHDS

SMART MULTI FUNCTION DISPLAY (SMFD)



GENERAL DESCRIPTION

SMFD offers both graphics generation and video display capability. It is available as a smart system with internal graphics generation and processing, allowing internal implementation of flight instrumentations, targeting, mapping, engine instrumentation or a number of other functions. This display is capable of presenting full screen or split screen graphics with video. Graphics also can be overlaid on video to maximize the information to the pilot. The smart display also contains wide range of interfaces such as ARINC 429, MIL 1553 B.

FEATURES

- Video Overlay
- Split Screen facility for graphics and video.
- Smart Data Processing capability.
- Optional interfaces such as ARINC 429 / CAN / Ethernet.
- DVI interface for digital video.
- Open GL 1.1 ES support
- RTOS support.

ELECTRO OPTICAL SPECIFICATIONS

ELECTRICAL INTERFACE

S.No	Description	Parameter
1.	Video	STANAG3350B/ YC/ DVI
2.	Communication	MIL 1553B/ARINC 429/RS 422
3.	Discrete	Day / Night Selection, Port Selection, MFD presence.
4.	Power	28 V DC / 115 V AC 400 Hz
5.	Bezel Lightening	0 to 5.5 V AC / 400 Hz

PERFORMANCE PARAMETER

S.No	Description	Parameter
1.	Display Active Area	6" X 6"
2.	Display Type	Color AMLCD
3.	Display Resolution	780 X 780
4.	Gray Shades	64
5.	Brightness Range	630 cd/m2 (Max) 0.1 cd/m2 (Min)
6.	Contrast Ratio	300 : 1
7.	Response Time	≤ 25 ms
8.	Refresh Rate	50 Hz
9.	Pixel Configuration	RGB Strip
10.	NVIS Performance	Class B
11.	Weight	< 8 kg
12.	Power consumption	<100 W without heater ON
13.	Operating Temperature Range	-40° C to 55° C +71° C for 30 min
15.	Cooling	Internal Fan