

**High Performance High Fidelity High Reliability** 

## **The Display Engineers**



## **Product Description**

The simulated F/A-18C/D DDI is a high-performance 5inch x 5-inch color, raster Data Display Indicator for avionics simulation applications. RS170-type video interface can be sync-on-green or separate/composite video sync. This display features:

- § Complete remote adjustment, calibration and diagnostics using a standard PC.
- § High-brightness, fine dot pitch color CRT. Available with NVIS compatibility.
- § Precision scan electronics and wide bandwidth video.
- § Same functional controls and form-factor as the flight display, plus contrast enhancement filter for improved readability.
- $\S~$  Built for durability and low life-span cost in simulator applications only, including full motion platforms. Cannot be used in aircraft.

# Simulated F/A-18C/D DDI **Data Display Indicator**



F-18 Cockpit



**DDI Rear View** 

Precision Display Technologies § 4635 Longley Lane, Building 109, Reno, NV 89502 Phone (775) 825-4488 § Fax (775) 825-4489 § www.pdt-usa.com § CAGE Code 1KMZ5

# Precision Display Technologies

## **Performance Specifications**

Resolution:	640 x 480 to 1280 x 1024 multi-			
V / 15	sync			
Vertical Frequency:				
Horizontal Frequen	5			
Video Bandwidth:	100MHz, -3db			
Input Impedance:	75 Ohms			
Connectors:	30 Pin Ba yonet Connector			
Synchronization:	Composite Video (R, G, B) with			
	sync on G or separ ate composite			
	sync (Optional Horiz ontal/Vertical sync)			
Frequency Detect:	A utomatic upon change of Video			
	input			
Brightness:	150ft -L screen center, without filter			
Video Signal Sensit	tivity: 0.7 vlts peak-peak (1.0 volts			
	peak -peak including composite			
	sync). Input circuits are designed			
	to withstand up to 5 v olts peak-			
	peak without damage			
Horizontal Linearity: 2% of picture width, (Ball chart				
·	method)			
Vertical Linearity:	2% of picture height, (Ball chart			
5	method)			
Geometric Distortion: 2% v ertical, 3% horizontal.				
Size Changes:	2% maximum			
Position Changes:	2% maximum			
Display Jitter:	0.005 inch peak -peak			
Phosphor Protect:	A utomatically blanks screen if			
1	missing sweep			
Overscan:	Horiz ontal overscan is standard			
	allowing 1:1 displa y of 4:3 video.			
Degaussing:	A utomatic upon power-up			

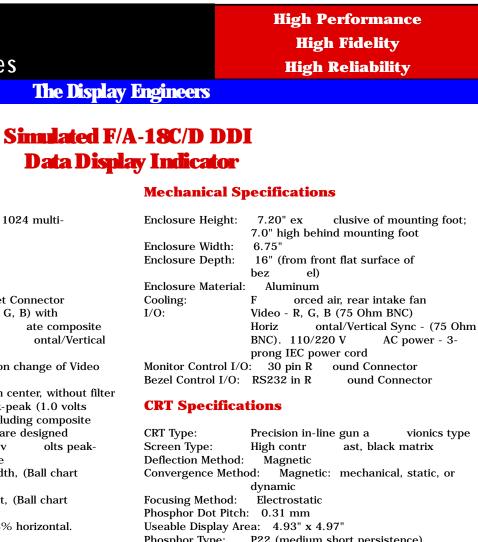
## **Operating Specifications**

Power Requirement	t: 90/264 V	V AC, 4	7-400 Hz;	110 wat
	maximum co nominal	onsumptio	on, 70 w	atts
Temperature:	0 to 40 C op non-oper	er ating	ating, -20	to 70 C
Altitude:	0 to 10,000 40,000 ft no	1	ating, ating	0 to
Relative Humidity:	Up to 90% oper a		ndensing) to 95% (no	on-

### Warranty

These units are offered with the standard Precision Display Technologies (PDT) warranty of one (1) year on parts and labor for design and/or manufacturing defects in PDT supplied components only (original manufacturers warranty applies to all HUD optics, and CRTs), and specifically does not include customer-induced failures or damage caused by shippers.

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Useable Display Are	ea: 4.93" x 4.97"				
Phosphor Type: P22 (medium short persistence)					
Light Transmittance: 30% (filter)					
Linearity:	+/- 2% of picture heig	ht o ver full			
	screen				
Line Width:	@150 microAmp	. 0.020" center,			
	0.024" corner				
Luminance:	@150 microAmp	. White 150 ft-L			
	without filter				
Convergence:	Within 0.2 mm center	, 0.3 mm			
-	corner				

#### **Remote Adjustments** atts

- RGB gain and cutoff Contr ast
- Horiz ontal size and center - Brightness
- Vertical size and center Horizontal linearity
- E-W pincushion Horiz ontal bow
- Horizontal trapezoidal Horiz ontal parallelogram
- Horizontal s-correction HVPS - Con vergence
- Focus - User brightness-contrast
- High/Low limits both day
- and night mode