



## Head Up Display Cathode Ray Tubes

Brimar manufactures rugged HUD CRTs used in most NATO forces' avionic platforms. The CRT has been designed, developed and qualified using precision techniques to provide maximum optical performance with minimum mass.

This CRT is currently in volume production and can be supplied with a range of different phosphors and mounting methods to ensure ease of integration into advanced HUD systems.

## APPLICATIONS INCLUDE:

- F-15 Eagle
- F-16 Fighting Falcon
- F-22 Raptor
- Eurofighter Typhoon
- A-10 Thunderbolt
- Boeing 737
- C-17 Globemaster
- Tornado



## TECHNOLOGY

This is a high performing Cathode Ray Tube and deflection coil assembly manufactured using high precision production technology. In addition, there is the option to have a dispenser cathode for improved reliability and life. The Brimar CRT is designed for use with an optical system and features low power usage, light physical weight, small physical size and the option for flexibility to be part of a modular system.

# EXAMPLE TECHNICAL SPECIFICATION

## CRT CHARACTERISTICS

Application: F-16 C/D HUD (G0942)  
 Usable screen area: 78mm min  
 Electromagnetic deflection CRT  
 Raster size: 63.9mm x 85.9mm  
 Luminance: 11,400 FtL  
 Line width: 129 µm centre, 139 µm half field

## ENVIRONMENT

Operating temperature: -40°C to +71°C  
 Storage temperature: -51°C to +85°C

Designed for low pressure, air transportation, and a typical military avionic working environment.

## PHOSPHOR SCREEN & FACEPLATE

Brimar Type J2, other phosphors available

## MECHANICAL

Length: 208 mm max  
 Weight: 1.1Kg max (without leads)

## NORMAL OPERATING VOLTAGES

Anode:	18.0kV
Focus:	2.96kV to 4.76kV
Grid 2 for Cut Off	847V
Cathode	0V
Heater Voltage	6.3V±10%
Heater current	0.3A±10%

FOR MORE INFORMATION ON BRIMAR HUD CRTs



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