



**PALOMAR
DISPLAY
PRODUCTS, INC.**

LRAS3 BDEK (Long Range Advanced Scout Surveillance System Biocular Electronics Kit)



Palomar Display Products offers a ruggedized, militarized, highly reliable one inch miniature CRT with compact electronics that require less than 15 watts of power.

Palomar Display Products now offers a qualified 2.0 inches miniature CRT with compact electronics. This rugged, militarized, high performance, low power display module is now available for your application.

The display module is designed to provide either U.S. or European TV raster imagery. This image can be used either as an optical/sensor system or as a stand-alone display, monocular or biocular, teamed with an eyepiece. The display also features a CRT with .09 mil spot size for high MTF performance fiber optic faceplate for low geometric distortion, uniform focus, and excellent "small area" contrast ratio are also featured. The electronic module features an integrated high voltage power supply and resonant sweep flyback electronics achieving high reliability and requiring less than 15 watts of power.

Palomar Display Products Part Number: K18709-100

General Performance Specifications

<i>Weight—CRT</i>	< 1.25 lbs.	<i>Line Width Measured at 50% point</i>	.0009°
<i>Weight—Electronics</i>	< 0.40 lbs.	<i>Luminance</i>	100 fL max
<i>Weight—HVPS</i>	< 0.60 lbs.	<i>Luminance Uniformity, Center Linear 50% of Screen</i>	+5%
<i>Power, Watts</i>	13 @ 50fL	<i>Video Format</i>	CCIR 625 line, RS170 525 line
<i>Input, Power Form</i>	± 15Vdc	<i>Video Bandwidth - 3db</i>	30MHz
<i>CRT Dimension</i>	2.5" diameter / 5.5" long	<i>Gray Shades</i>	10
<i>HVPS Dimensions</i>	4.130" x 2.618" x .880"	<i>Operating Temp</i>	-32°C to +80°C
<i>Electronic Dimensions</i>	6" x 3.5" x .40"	<i>Storage Temp</i>	-54°C to +100°C
<i>Display Power Up Time</i>	< 15 seconds	<i>Small Area Contrast Ratio</i>	8:1
<i>Phosphor</i>	P1 or P43	<i>Geometric Distortion, Center Linear, 50% of Screen</i>	<2%
<i>Raster Size</i>	1.8" diagonal nominal (1.57"x .88")		
<i>Aspect Ratio</i>	4:3, 16:9		

Specifications are subject to change without notice

For more information:

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