

Simulated Submarine Periscope System

Data Sheet



Description

Beck Optronic Solutions' binocular SXGA display module is designed to simulate the eyepieces of submarine periscopes. It features high resolution (1280 x 1024 pixels), full colour, liquid crystal on silicon displays and custom designed, multi-layer coated optics.

The module is available as a standard product or can be customised as required.



Specification

Display type	FLCOS, reflective mode	
Display format	1024 pixel circle	
Field of view	48°	
Eye relief	25mm without protective window 17mm with protective window	
Exit pupil diameter	5mm	
Dioptre adjustment	-2D to +3D	
Interocular adjustment	58mm to 72mm	
Contrast ratio	>200:1	
Uniformity	95%	
Distortion	<8% pincushion	
Colour technique	Colour sequential	
Colour depth	24 bits (red 8, green 8, blue 8)	
Input format	Mode Frame rate	SXGA (1280 x 1024 pixels) 60Hz, non-interlaced
Input connector	DVI connector mounted on Interface controller.	
Micro-display cable	Low voltage differential signalling cable (LVDS). 2.5m long.	
Supply voltage range	12V DC +/-10%	
Power input connector	2.5mm jack plug on interface controller.	
Operating temperature range	+10°C to +60°C (-20°C to +60°C as an option)	
Storage temperature range	-40°C to +85°C	

About Beck Optronic Solutions

BOS has a reputation for excellence in design and manufacture of precision optics that can be traced back over 175 years. Based near London, UK, BOS delivers complex, integrated electro-optic systems for defence and commercial use across the electromagnetic spectrum from UV to LWIR.

For pricing or further information please contact us at:

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