



DUSK

## DUSK: Simulated Enhanced Night Vision Goggles

DUSK has been developed for enhanced, full colour Night Vision applications. The design is based on in-depth knowledge of HMD use in real aircraft and the effects of HMD properties on pilot performance. The lightweight, helmet mounted binocular unit faithfully replicates the performance of real NVGs. Additional options are: Headtracker, Simulated Battery Pack, Helmet Mount, Full Colour Display.

### Specifications\*:

#### Optical

Field of view 40° Circular  
 IPD adjustment 51 - 71mm total  
 Dioptric adjustment +2.0 to -6.0  
 Vertical adjustment 16 mm range  
 F/A adjustment 27 mm range

Tilt adjustment 10° minimum  
 Exit pupil/eye relief 7mm@25 mm distance  
 Full-field 7mm @ 25 mm distance

#### Display

Display technology FLCoS  
 Number of displays 2  
 3D capable Yes  
 Resolution 1280 x 1024  
 Aspect Ratio 5:4  
 Refresh rate 60 - 85 Hz  
 Color depth 24bpp  
 Brightness 40fL  
 Contrast ratio 200:1  
 Display diameter 22.4mm (0.88")  
 Total pixels 1.310.720  
 Pixel pitch 13.62µm x 13.62µm

#### HMD

Interfaces 2x DP  
 1x USB  
 1x Power  
 Yes (USB)  
 Yes (USB)  
 Camera Optional  
 Head tracking Optional  
 Weight <0.4kg  
 Flip-Up/Flip Down Ball & Socket  
**Power** 7,5W  
 Input voltage 12V

\*Specifications are subject to change without prior notice

### About Cinoptics:

Cinoptics defines, designs and manufactures electronic optic systems for integration in Virtual and Augmented Reality applications. Cinoptics offers a clear perspective on complex technologies. Due to our experience, vision and extensive network we can transform specific needs into tangible results.

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