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STORMCLOUD: Simulated Enhanced Helmet Mounted Sight Display

STORMCLOUD is the Simulated Enhanced Helmet Mounted Sight Display designed and built by Cinoptics in collaboration with NLR. STORMCLOUD has been created for multiple platforms and features a modular design that can be customized for various rotor wing or jet fighter simulators.

The design of this full colour HMSD's is based on in-depth knowledge of HMSD use in real aircraft and the effects of HMSD properties on pilot performance.

Applications include Full Motion and Mid-Range training Simulators. The Simulated HMSD is compatible with DVI and RGB input , thus offering high quality Image & Black Level for Simulated FLIR, IIT image and Symbology.

Specifications*:

Optical

Field of view	40°(H) x 30°(V)	Eye relief	56 mm
IPD adjustment	Not required	Exit Pupil	10 mm
IPD range	56 - 76 mm		
Dioptric adjustment	Not required	Focal Length	3.4 m (adjustable)
Transparency	>70%		

Display

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

HMD

Interfaces	2x DP (DisplayPort) 1x USB 1x Power
Audio	Yes (USB)
Control	Yes (USB)
Camera	No
Head/Eye tracking	Optional
Weight (incl. Helmet)	<2300g
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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