



**STORMCLOUD**

## STORMCLOUD: Simulated Enhanced Helmet Mounted Sight Display:

STORMCLOUD is the Simulated Enhanced Helmet Mounted Sight Display by Cinoptics in collaboration with the National Aerospace Laboratory of the Netherlands (NLR). STORMCLOUD has been created for multiple platforms and features a modular design that can be customized for different rotor wing or jet fighter simulators.

The design of these 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 EF / NH90 Simulators, 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)	Image latency	<3msec
IPD adjustment	Not required	Eye relief	56mm
IPD range	56 - 76 mm	Exit pupil	10mm
Dioptric adjustment	Not required	Display modes	FLIR, Symbology, IIT
Transparency	>70%	Focal length	Custom

#### 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
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	2400gr (incl. helmet)
<b>Power</b>	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.

### Contact:

Cinoptics  
Head Office and R&D Center  
Oxfordlaan 70 [BioPartner Center]  
6229 EV MAASTRICHT  
The Netherlands

T: +31(0)43-36 18 300  
F: +31(0)43-36 18 394  
[info@cinoptics.com](mailto:info@cinoptics.com)  
[www.cinoptics.com](http://www.cinoptics.com)