

FWS-CS

FAMILY OF WEAPON SIGHTS - CREW SERVED



RAPIDLY ENGAGE TARGETS IN ALL BATTLEFIELD CONDITIONS

Increasing Warfighter survivability in various operational conditions is just one of the features of the new infrared weapon sight from Leonardo DRS' Electro-Optical Infrared Systems business unit. The Family of Weapon Sights Crew Served (FWS-CS) integrates with the M2 .50 caliber machine gun, MK19 Grenade Launcher, and the M240B machine gun. It wirelessly communicates with a Helmet Mounted Display (HMD) allowing Soldiers to receive the imagery from the sight while remaining behind protection.

The FWS-CS contains a long-wave infrared imaging sensor along with a Color Day Imager (CDI), a Laser Range Finder (LRF), and a Ballistic Computer Calculator (BCC). The Weapon Sight displays a static reticle for all weapons and their ammunition. All images displayed within the weapon sight can be displayed to the user within the HMD. When using either the CDI or Thermal Channel, the operator can fire the LRF on a target and the FWS-CS will provide the range to target and display a disturbed reticle for aimpoint to increase the probability of a first burst on target.

Enhanced target engagement provides a significant advantage for Soldiers. This advanced technology enables Soldiers to acquire and engage targets more rapidly while providing increased accuracy resulting in first-burst impacts on target. This capability ensures Soldiers are equipped with the best sensors and targeting devices to dominate the battlefield through lethality and situational awareness in all operational environments.



FWS-CS with the Helmet Mounted Display

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INFRARED FOCAL PLANE ARRAY

COMPONENT	DESCRIPTION
Detector Type	Uncooled VOx Microbolometer
Detector Pitch	10 μ m
Array Size	1280 x 960
Spectral Band	Long-Wave Band

INFRARED OPTICS

Focal Length	66.7 mm
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OPERATIONAL

Frame Rate	30 Hz
Digital Video Output	Yes
Analog Video Output	No
Automatic Gain and Level	Yes
Zoom	2X, 4X
Image Processing	Automatic and Manual Non-Uniformity Correction in Thermal Mode
Wireless Video Capability	Yes
MTBF	700 Hours with 80% Confidence
Weapon Platforms	MK 19, M240B, M2

ACCESSORIES

Included	<ul style="list-style-type: none"> • Soft Case • Lens Cleaning Kit • Operator's Manual • Quick Reference Card • Wireless Remote • Helmet Mounted Display
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VISIBLE FOCAL PLANE ARRAY

COMPONENT	DESCRIPTION
Detector Type	CMOS
Detector Pitch	1.75 μ m

VISIBLE OPTICS

Focal Length	23.3 mm
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POWER

Source	9-32 VDC Vehicle Power 6 AA Batteries
HMD and Remote	3 AA

RANGE

Thermal/Visible	Beyond Maximum Effective Range of Weapon System
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ENVIRONMENTAL

Operating Temperature	-40°C to +49°C Plus Solar Load
Humidity	100%

PHYSICAL

Dimensions (H x W x L)	4.47 x 3.90 x 9.65 inches 11.354 x 9.906 x 24.511 cm
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FWS-CS shown mounted on a M240B with the HMD attached to a helmet.

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