

# ARROWHEAD®

## MODERNIZED TADS / PNVS RECEIVER FOR THE APACHE



### SEE FIRST, UNDERSTAND FIRST, ACT FIRST AND FINISH DECISIVELY

Leonardo DRS provides the integrated forward looking infrared (FLIR) receivers for both the Modernized Target Acquisition Designation Sight (M-TADS) and the Modernized Pilot Night Vision Sensor (M-PNVS) for Lockheed Martin's Arrowhead® – Apache's advanced electro-optical fire control system, which is used for target acquisition/designation and safe flight in day, night and adverse weather conditions.

Leonardo DRS' Horizontal Technology Integration (HTI) second generation forward looking infrared technology improves system performance by up to approximately 150%. Enhanced reliability and streamlined field maintenance reduces operation and support costs by as much as 60%.

Arrowhead® supports the U.S. Army's current and future force objective of seeing first, understanding first, acting first and finishing decisively.

#### HIGHLIGHTS

- Integrated imager, scanner, electronics and detector cooler bench
- HTI second generation forward looking infrared technology improves system performance
- Safe flight in day, night and adverse weather conditions
- Improved reliability and streamlined field maintenance reduce operation and support costs



# ARROWHEAD® MODERNIZED TADS / PNVIS RECEIVER FOR THE APACHE

## FOCAL PLANE ARRAY

COMPONENT	DESCRIPTION
SADA-I Detector	480 x 5 LWIR Scanning Array

## VIDEO

Video Output	16 Channel Analog Video, SADA-I
Frame Rate	60 Hz

## POWER

Cooler	+28 V Peak, 336 Watts 95 Watts Steady State
Receiver	+/-135 V Peak, 75 Watts 40 Watts Steady State

## GENERAL

COMPONENT	DESCRIPTION
MTBF	3,912 hours
Diagnostics	Complete Built-In Test
Service Life	>10,000 Hours over 20 Years
Platform	Attack Helicopter

## ENVIRONMENTAL

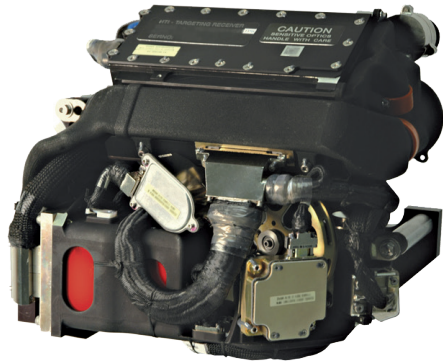
Apache	Meets MIL-STD 810F and MIL-STD 416E for EMI
SADA-I	Meets MIL-PERF-79756090

## OPTICS

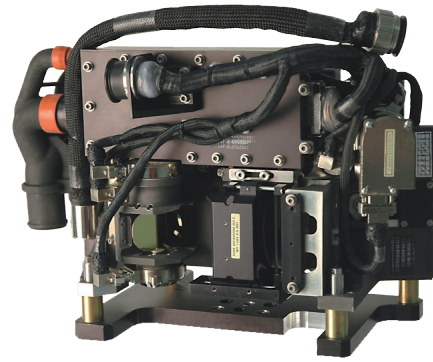
	M-TADS	M-PNVIS
Field of View	20.0° x 26.7°	23.0° x 41.9°
Focal Length	4.8 cm	4.2 cm

## MECHANICAL

	M-TADS	M-PNVIS
Weight	<17 lbs.	<19.5 lbs.



M-TADS



M-PNVIS

### Electro-Optical Infrared Systems

100 N Babcock St,  
Melbourne, FL 32935  
T +1 888 377 7782  
marketing @drs.com

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