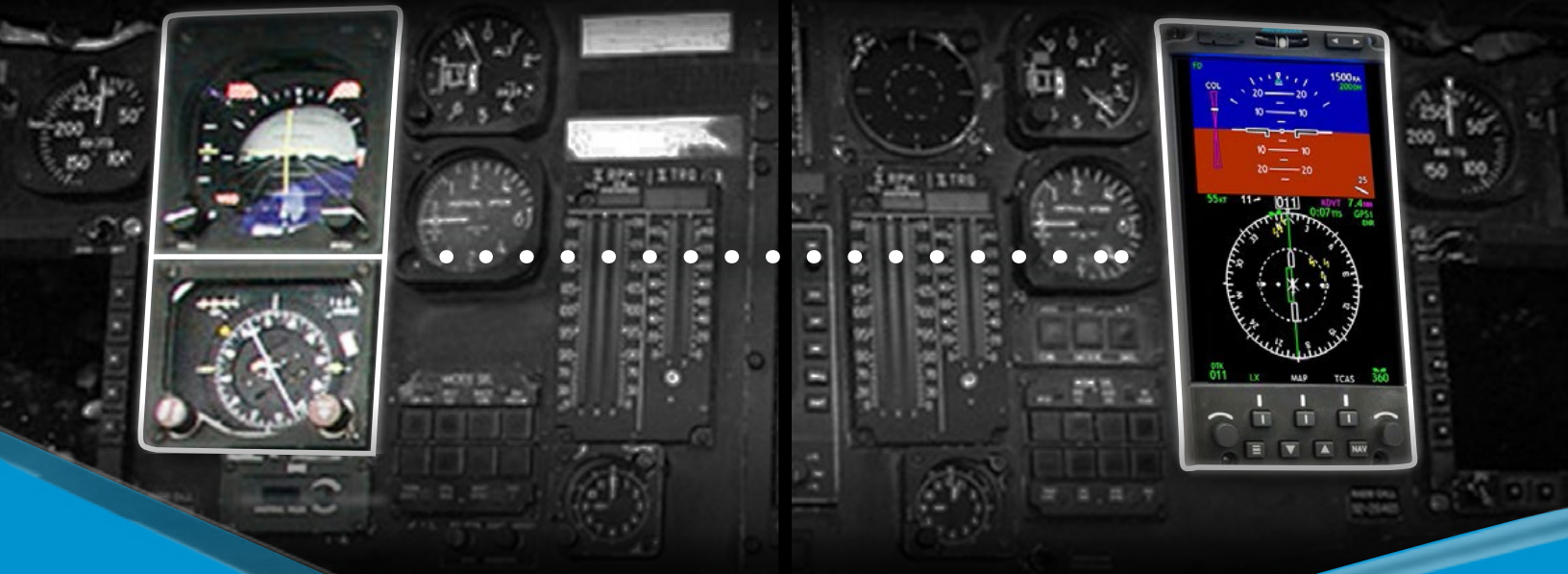


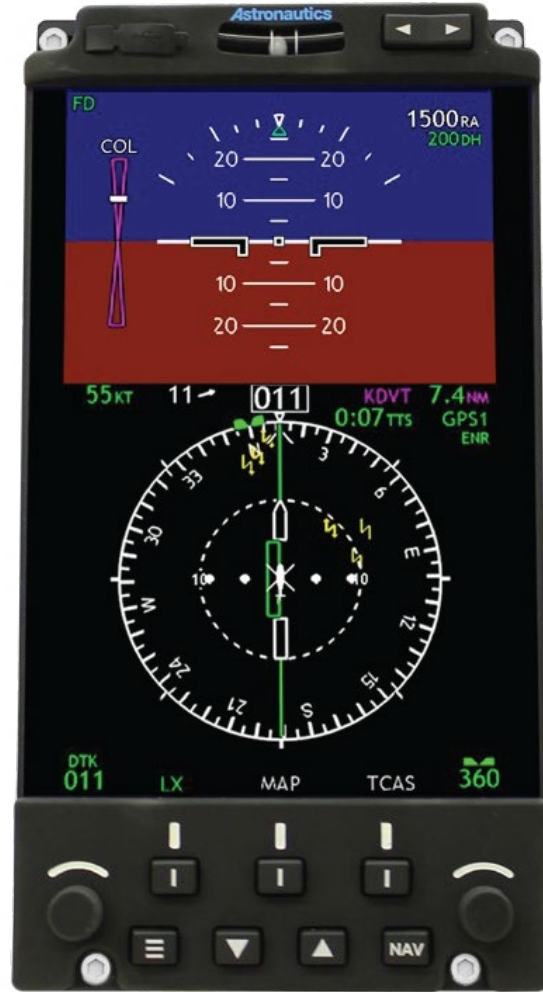
# MODERNIZE YOUR UH-60

WITHOUT A FULL PANEL REDESIGN



Astronautics  WCF AEROSPACE  
**ROADRUNNER**<sup>®</sup>  
ELECTRONIC FLIGHT INSTRUMENT

# ROADRUNNER



## COST-EFFECTIVE, CAPABLE UPGRADE

**Astronautics' AFI4700 RoadRunner Electronic Flight Instrument (EFI)** provides UH-60 operators with a practical, certified path to replace aging analog flight instruments with a modern digital display. Designed for retrofit installations, the RoadRunner EFI enhances pilot situational awareness when leveraging existing avionics and minimizing aircraft downtime.

The RoadRunner EFI supports the full spectrum of UH-60 operations, from military and government missions to commercial and special-mission civil applications. Astronautics is partnering with FAA Part 145 MRO and authorized dealer, **WCF Aerospace**, to provide the FAA Supplemental Type Certificate (STC) for the UH-60 A/L.

Astronautics designed, manufactured, and supported the original electromechanical ADIs and HSIs for UH-60 A/L models. With more than 10,000 units fielded worldwide and millions of flight hours accumulated, the next step is clear: upgrade with Astronautics' own digital replacement—the RoadRunner® EFI.



## MODERNIZE YOUR UH-60 WITHOUT A FULL PANEL REDESIGN

### Replace Multiple Analog Instruments with One Digital Display

The RoadRunner EFI is a 5x7-inch digital display that replaces legacy ADI and HSI indicators, consolidating functions into a single unit while interfacing with existing or upgraded attitude and heading reference systems, navigation radios, and GPS systems.

#### RoadRunner EFI at a glance:

- ✔ Digital replacement for legacy ADI & HSI
- ✔ Minimal cockpit disruption
- ✔ Scalable capability with optional overlays
- ✔ Cost-effective retrofit solution

The RoadRunner EFI received FAA Technical Standard Order authorization in June 2019 and is approved under multiple FAA STCs, including for Leonardo A109/AW119 and Bell 212/412 helicopters. It is also installed on U.S. Air Force T-38 trainer, U.S. Navy Lockheed C-130 transport, and Casa 212 aircraft.

By integrating multiple overlays traditionally spread across the instrument panel, the RoadRunner EFI improves pilot awareness.

#### Standard overlays include:

- ✔ Course deviation
- ✔ Rate of Turn (ROT)
- ✔ VOR map

#### Optional overlays include:

- ✔ Traffic Collision Awareness System (TCAS)
- ✔ External Terrain Awareness and Warning System (TAWS)
- ✔ GPS moving map
- ✔ Lightning detection
- ✔ Weather radar



## Seamless Integration

### INTERFACE W/ EXISTING EQUIPMENT

<b>Legacy Equipment</b>	
VOR/ILS Radio	AN/ARN-123(V) & 145 (V)
ADF Radio	AN/ARN-89 & 149
Gyromagnetic Compass (DG)	AN/ASN-43
Radar Altimeter	AN/APN-209(F)
Flight Director (CISP & CIP)	125930 & 146310
<b>Garmin</b>	GTN-650/750 GNS-430(W)/530(W) GPS-165
<b>Avidyne</b>	IFD-4XX/5XX

### REPLACE EXISTING INSTRUMENTS

<b>New PN (AFI4700)</b> PN 276800-1 (EFI)	<b>Existing PN (VSI &amp; HSI)</b> PN 129060 (VSI) PN 132750-5 (HSI)
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**GENERAL SPECIFICATIONS**

<b>Dimensions</b>	
Electronics Unit	5.0"H x 4.6"W x 6.9"D
Display Head	9.7"H x 5.2"W x 1.5"D
<b>Weight</b>	8.1lbs
<b>Display</b>	4" x 7" AMLCD with a viewable area of 4.1" x 6.8"
<b>Display Resolution</b>	480 x 800
<b>Luminance</b>	>800 cd.m <sup>2</sup>

**CERTIFICATION SPECIFICATIONS**

<b>FAA TSO</b>	C209, C3e, C165a
<b>Software</b>	D0-178C Level A
<b>Firmware</b>	D0-254 Level A
<b>Environmental</b>	D0-160G
<b>FAA System Safety</b>	Part 25 & 29

**I/O SPECIFICATIONS**

<b>ARINC 429 Inputs</b>	8
<b>ARINC 429 Outputs</b>	4
<b>3-wire Synchro/Resolver Inputs (XYZ)</b>	6
<b>Synchro/Resolver Reference (26VAC or 115VAC) Inputs</b>	5
<b>ARINC 568 DME Inputs</b>	1
<b>4-wire Resolver Outputs</b>	1
<b>Low Range Analog Inputs</b>	6
<b>High Range Analog Inputs</b>	8
<b>RS-422 (crosslink) Inputs</b>	1
<b>RS-422 (crosslink) Outputs</b>	1
<b>RS-232 Inputs</b>	2
<b>RS-232 Outputs</b>	2

**READY TO MODERNIZE YOUR UH-60 FLEET?**

Contact Astronautics or WCF Aerospace to discuss how the RoadRunner EFI can support your operational and sustainment goals.

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