

# Astronautics **BADGER** PRO+



**INTEGRATED FLIGHT DISPLAY SYSTEM**

# Astronautics

DISPLAYS & COCKPIT INTEGRATION

# BADGER<sup>+</sup>PRO

## BEST-IN-CLASS AVIONICS

**The Badger Pro+ Integrated Flight Display System** consists of 6x8-inch, high-resolution, smart multifunction displays providing primary flight, navigation, and engine data display functions, as well as system synoptics, weight and balance, and checklist information.

The system also displays high-definition video from multiple input types and is night vision compatible. Badger Pro+ integrates information across multiple aircraft systems to provide an advanced and intuitive pilot interface that has been proven in the field over thousands of flight hours.

Badger Pro+ is the latest generation of Astronautics' Badger family with demonstrated reliability over 1,000,000 flight hours in the harshest environments.

Astronautics' Badger Pro+ display system is standard fit on the BELL 429 and SUBARU BELL 412EPX.





## SUBARU BELL 412EPX

### HIGH DEFINITION

- ✓ Outlined graphics & character fonts
- ✓ High-resolution display with 128 ppi
- ✓ LED-based NVG compatibility

### SUPERIOR VIDEO

- ✓ Supports 4 source types (analog & digital)
- ✓ Configurable orientation, sizing, & scaling
- ✓ Overlay of hover, heading, & height info

### PROVEN RELIABILITY

- ✓ Sealed unit with passive cooling, no fans
- ✓ >25,000 mean time between failures
- ✓ Single part number for all displays

### NEW CAPABILITY

- ✓ Advisory vertical approach
- ✓ Additional heading modes
- ✓ Autopilot restoring climb-out



A Bell AH-1Z Viper helicopter is shown in flight, banking to the right. The helicopter is dark green with yellow and white stripes. The background features the Golden Gate Bridge and the San Francisco Bay. The text "ADVANCED GLASS COCKPIT FEATURES" is overlaid in white, bold, sans-serif font.

# ADVANCED GLASS COCKPIT FEATURES

*Photos courtesy of Bell*





Primary Flight Display (PFD)



Composite



Category A



PFD Hover Mode



Engine Instrument Display (EID)



Radar



Weight & Balance



Split EID / Video



Full Screen Video w/ Overlays







# PRODUCT DESCRIPTION

## GENERAL SPECIFICATIONS

Dimensions	10.8"H x 8.7"W x 8.8"D
Power	28VDC   45 nom.
Weight	12.6lbs
Display	6x8-inch viewable area
Resolution	XGA 1024 x 768
Viewing Angle	> ±70 ° H&V   CR>10:1
Luminance	0.05 fL to 200 fL
Contrast Ratio	>7.1in 10k fc ambient

## INPUT / OUTPUT

ARINC 429 Inputs	8
ARINC 429 Outputs	4
3-wire Synchro/Resolver Inputs (XYZ)	6
Synchro/Resolver Reference (26VAC or 115VAC) Inputs	5
ARINC 568 DME Inputs	1
4-wire Resolver Outputs	1
Low-Range Analog Inputs	6
High-Range Analog Inputs	8
RS-422 (crosslink) Inputs	1
RS-422 (crosslink) Outputs	1
RS-232 Inputs	2
RS-232 Outputs	2
Video Inputs (3 Connectors):	SMPTE 292M, DVI, RGB/YPbPr Component, RS-170A Composite

## CERTIFICATION

FAA TSO	C113a, C3e C2d, C4c, C5f, C6e, C8e, C10b, C34e C36e, C40c, C41d, C43c, C44c, C46a C47a, C49b, C55a, C63d, C66c, C87a C102, C115d, C118a, C146d, C147a C165a, C194, C198 & C201
Software	DO-178B Level A
Firmware	DO-254 Level A
Environmental	DO-160G
FAR Part Applicability	Part 25, 27 & 29



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