

Astronautics
BADGER
PRO+



INTEGRATED FLIGHT DISPLAY SYSTEM

Astronautics

AVIONICS SOLUTIONS

BADGER 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

ADVANCED GLASS COCKPIT FEATURES



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

Photos courtesy of Bell

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

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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