



## Powerful cockpit upgrade for P180 Avanti based on Rockwell Collins Pro Line 21 IDS Version 6.0

Pro Line 21 IDS Integrated Display System offers an effective upgrade of next-generation display and graphics technology for Piaggio P180 Avanti aircraft – easy to install by integrating most of the existing aircraft sensors.



### Great enhancement, reasonable effort

With Pro Line 21 IDS retrofit, RUAG Aviation offers owners and operators of P180 Avanti a considerable modernisation of their aircraft's cockpit without the usual high cost of a comprehensive avionics retrofit. By integrating most of the existing sensors, radios, flight management systems and autopilots it is easily installed while providing a wide range of optional features. This allows customized solutions that meet individual aircraft and mission requirements.

### Increase of flight safety

Three high-resolution OEM format Adaptive Flight Displays deliver multiple information at a glance and therefore increase the flight crew's situational awareness in every phase of flight. While the primary flight display (PFD) combines attitude, altitude, airspeed and heading reference with easy-to-handle graphical interface, the system's multifunction display (MFD) enables pilots to quickly reference layers of information to assure flight safety.

### Comprehensive service

RUAG Aviation offers a full turn-key solution at minimal downtime, taking care of the whole mid-life integration – from design to installation – as well as full after-market support of the P180 system. While the market value of your upgraded aircraft increases, operational cost decrease thanks to higher system reliability.



Primary Flight Display (PFD)



Enhanced Maps



Electronic Charts Airport



Engine Display (EIS)

**Basic package:**

- Dual primary flight display and multifunctional flight display
- Single Integrated Flight Information System (IFIS)
- Dual Attitude and Heading Reference System AHRS-3000
- Digital Air Data Computer ADC-85A

**Optional features (subscriptions required):**

- Electronic charts including SIDs, STARs, NOTAMs
- Enhanced maps providing overlays of geo and political boundaries, airspace restrictions, high and low airways
- Graphical weather capability improving strategic planning ability

Key benefits at a glance
High resolution AFD's increase situational awareness
Interface with Rockwell Collins APS 65
Displays support TAWS, Rockwell Collins Weather Radar, TCAS, WX Detection and other advanced features
Significant weight savings over legacy EFIS 85 cockpits
Support of growth for future CNS/ATM
High reliability reduces cost of ownership
Engine Indication System (EIS) for Pratt & Whitney PT6A engines
Minimal downtime providing flexible retrofit solution



File Server Unit

**New Pro Line 21 IDS V 6.0 features**

- Configurable Turbo Prop Engine Indication (EIS) and prop sync
- Display of NTSC video on MFD compatible with:
  - Max-Vis® EVS-1000
  - L3 IRIS™
  - Kollman GAVIS™
  - CMC Electronics CMA-2600, CMA-2610
- IFIS V6.0 XM Weather features:
  - Lightning
  - Satellite images
  - Winds aloft
  - TFR's
- Universal FMS interface features:
  - UNS FHDG
  - LPV annunciation

**RUAG Aviation**

Aeroporto · 6982 Agno · Switzerland  
 Tel. +41 91 611 90 60 · Fax +41 91 611 90 65 · info.aviation@ruag.com · www.ruag.com  
 Legal domicile: RUAG Switzerland Ltd · Seetalstrasse 175 · P.O. Box 301 · 6032 Emmen · Switzerland