

Pro Line 21™ integrated avionics system upgrade

FLY WITH A STACKED DECK

Take your Hawker, Premier 1/1A
or King Air into NextGen® airspace

EQUIP YOUR PRO LINE 21 FOR THE FUTURE

Pro Line 21™ displays bring much more than synthetic vision. Featuring integrated ADS-B Out annunciations and enabling Satellite Based Augmentation System (SBAS) approaches in Europe.

ADS-B OUT

NextGen is transitioning from ground-based to space-based tracking, enabling more aircraft to fly more efficient routes with closer spacing. Complies with the latest standards for worldwide acceptance.

WAAS-CAPABLE GPS

WAAS is the technology that enables precision RNAV GPS approaches, LPV and the ADS-B Out mandate. Now is the time to update – unlock NextGen airspace with a WAAS update.

FLIGHT MANAGEMENT SYSTEM

Taking advantage of the latest routes and terminal procedures requires the latest in FMS technology.

- Saves time and money by enabling LPV approaches
- Uses GPS as primary means of navigation

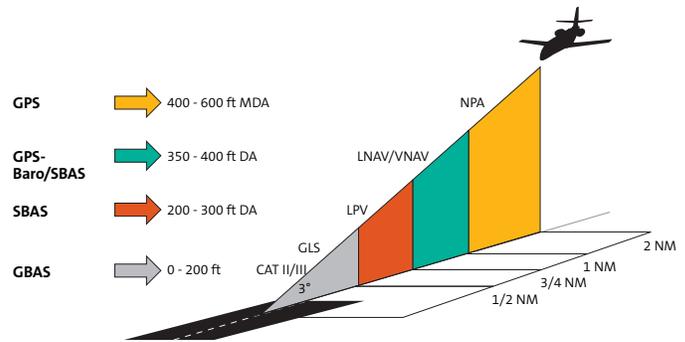
RNP

DME/DME RNP-0.3 NA.

PROVO, UTAH	AL-683 (FAA)	15176
WAAS CH 97307 W13A	APP CRS 134°	Rwy Idg TDZE 8599 App Elev 4497
RNAV (GPS) RWY 13 PROVO MUNI (PVTU)		
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA. Circling NA east of Rwy 18 and 31.		MISSED APPROACH: Climb to 9000 direct HUNSU and on track 206° to SANNCO and right turn on track 296° to MEDKE and on track 350° to FFU VORTAC and hold.

- Adds XYZ approaches
- Automatically shares takeoff and arrival data with our Integrated Flight Information System (IFIS) and Synthetic Vision System (SVS)

LPV



- More than 4,000 LPV approaches available in the United States and continuing to grow
- Without SBAS, you are restricted to the NPA approach minimums

Synthetic vision

Fly with increased confidence at night, or in any weather

- Always know where you are relative to nearby terrain
- Stay oriented with your landing runway*, simply and visually
- See where your airplane is going with Flight Path Vector

*Runway depiction requires an additional SVS database.



Pro Line 21 upgrades

Baseline package includes the latest AFD software version 10.4 and FMS software version 4.2 to support worldwide LPV/RNP and establish a baseline for the latest options like integrated ADS-B, IFIS 6 and SVS.

Special package pricing available when ADS-B, SVS and IFIS upgrades are combined.

Package price will vary depending on current configuration of the aircraft.

	UPGRADE PACKAGE	OPTION
(AFD 3010E) wall-to-wall ADI	X	
Flight Path Vector	X	
Integrated ADS-B annunciation	X	
Enhanced engine indication	X	
LPV (EASA APV)	X	Complies with TAWS Mode 5 monitoring requirements
FMS 4.x RNAV (GPS) approach	X	
LPV approaches	X	
Increased database memory (vs. FMS 3.X)	X	Ability to load world/FMS world database
XYZ approaches	X	
Integrated RAIM	X	
FMS 4.2 RF legs (curved approach)	X	
RNP 1/RNP 2/RNP 4	X	
FMS runway depiction on SVS	X	
FMS Navigation Beyond 73N and 60S	X	
WAAS GPS	X	Enables ADS-B and LPV/APV
IFIS Version 6 electronic charts (chart link)*	X	
Synthetic Vision System on PFD		X
Optional runway database		X Requires subscription to database
XM/SXM Satellite Weather*		X Requires additional hardware
ARINC graphical weather		X Requires purchase of the data link option
Second FMS/GPS		X
TCAS II		X
VHF data link		X Growth for CPDLC
HF-9000 high-frequency radio		X
Airshow® 500		X
MFD composite video		X i.e., FLIR or security camera
Collins Avionics Service Program (CASP SM)		X

*For Premier 1A, IFIS Version 6 is a baseline feature for aircraft already equipped with IFIS-5000.

OPTIONS

DATA LINK (VHF)

Send your FAA-filed flight plan directly to the aircraft, as well as other important messages.



SECOND FMS/GPS

For mission-critical situations where backup is important.

COMPOSITE VIDEO AND S-VIDEO - NTSC VIDEO ON MFD



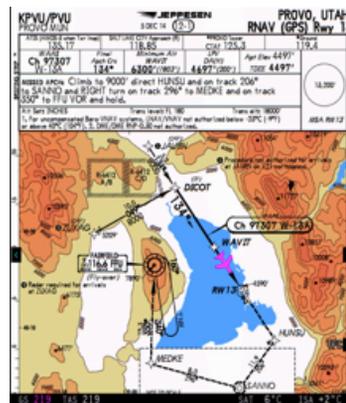
The display of video, in an NTSC format is presented on the lower half of the MFD. Video sources may be EVS, surveillance, or information cameras. Multiple video sources may be selected via an external switch.

INTEGRATED EFB (IFIS)

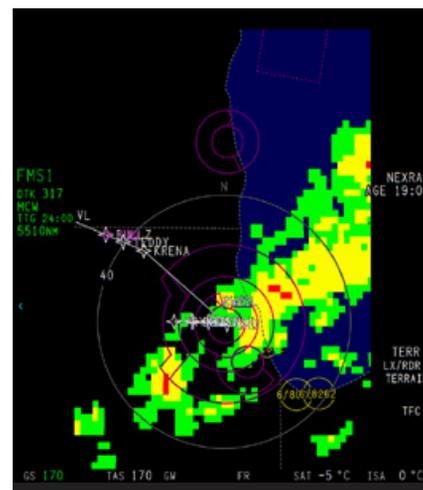
The Collins Pro Line 21™ Integrated Flight Information System (IFIS) brings common functions like charts, graphical weather and enhanced maps to your Pro Line 21 displays.

With this integration, the FMS automatically shares flight-plan data with the IFIS. This enables automated chart selection, presenting aircraft position on chart, overlaying the flight plan on graphical weather and much more. Pilots have greater situational awareness while reducing their workload, compared with federated EFBs.

- Ownship on chart
- SIDS, STARs, approach, airport charts
- XM WX Satellite Weather
- Enhanced maps with airways and intersections
- Geopolitical boundaries
- Chart Link-automated interface links FMS flight plan to origin and destination charts



Graphical weather





For efficient aircraft operations, you must get the most from your aircraft. The Collins Pro Line 21 integrated avionics system is designed to enhance a wide range of business, commercial and military aircraft. With large, clear liquid-crystal LCD displays and state-of-the-art functionality, Pro Line 21 expands aircraft capabilities and improves situational awareness in every phase of flight.

To learn more, go to
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