EASy IV

NEW GENERATION AVIONICS SUITE FOR THE FALCON 6X,
FALCON 7X AND FALCON 8X.

DASSAULT AVIATION | Honeywell

EASy IV

The fourth generation of the acclaimed EASy flight deck adds even more capability:

- Streamlined aircraft operations
- Enhanced situational awareness
- Improved operational safety

This upgrade in capability also enhances aircraft value retention.

link to Honeywell

link to EAsy IV video

For more information on EASy IV, contact your
Customer Service Manager (CSM) or Field Technical Representative (FTR)

EASyIV@dassault-aviation.com

To order, contact your MRO or ASC Representative

FLY SMARTER WITH EASy IV

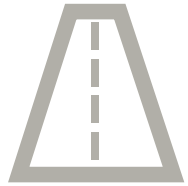
Enhanced processing power, improved graphics and useful new features make navigation in the air and at busy airports easier. You operate with more confidence, with information you need in order to fly more safely.

1

STREAMLINED AIRCRAFT OPERATIONS

- Enhanced graphical flight planning
- Advanced Datalink communications
- RNP AR Approaches
- Engine-out auto-throttle (A/T)
- Enhanced Jeppesen Charts

2



ENHANCED SITUATIONAL AWARENESS ON GROUND AND IN FLIGHT

- New 2D and 3D Airport Moving Map (AMM)
- ADS-B IN with airborne and surface traffic
- SiriusXM® weather (SXM)

3

IMPROVED OPERATIONAL SAFETY

- Improved Take-Off and Landing Data (TOLD) performance computations
- Runway Overrun Awareness and Alerting System (ROAAS)

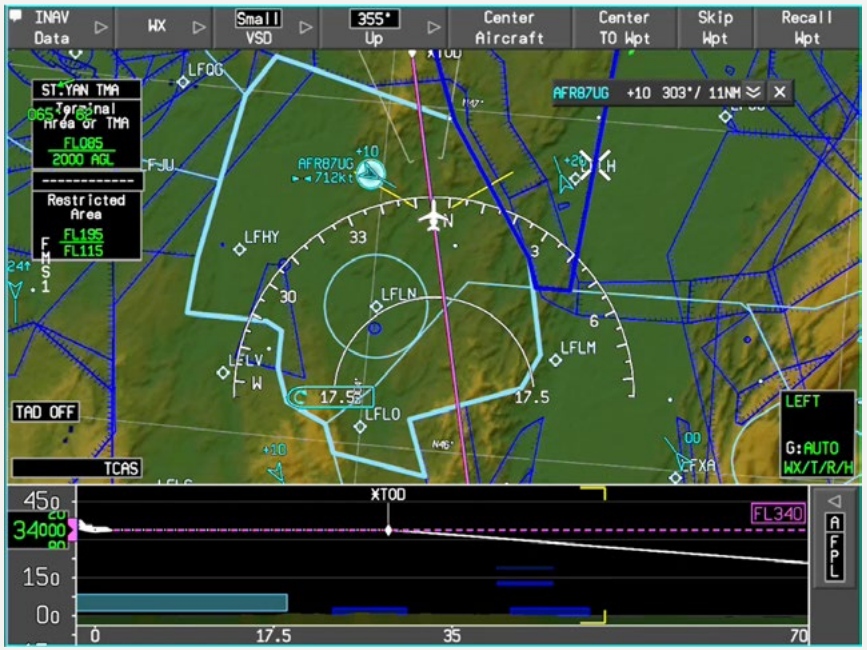
GLOSSARY

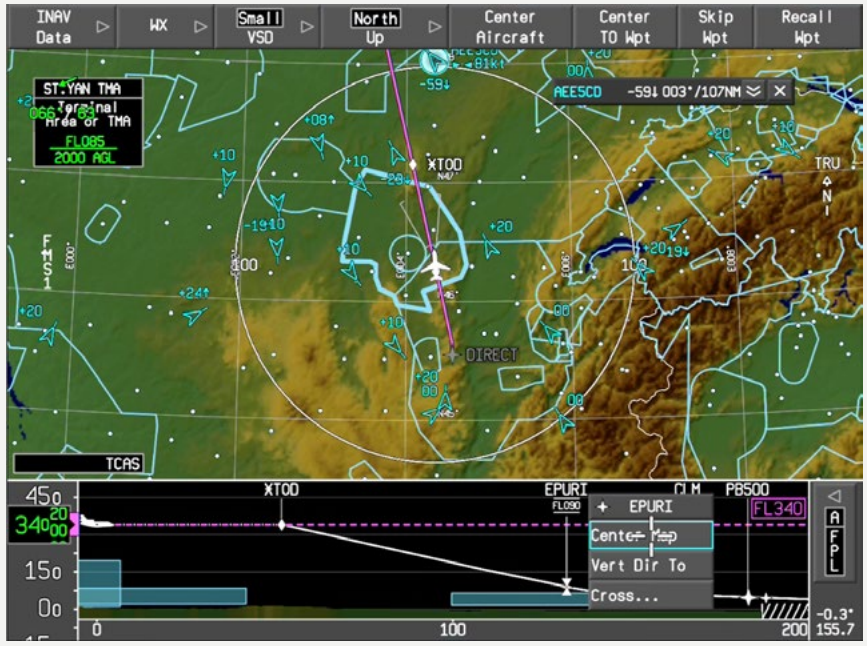
ADS-B: Automatic Dependent Surveillance – Broadcast
AMM: Airport Moving Maps
ATC: Air Traffic Control
CDTI or ADS-B IN: Cockpit Display of Traffic Information also named ADS-B IN
-AIRB: Airborne traffic
-SURF: Surface traffic
-VSA: Visual Separation on Approach (Traffic graphical interaction)
CMF: Communication Management Function
CPDLC: Controller-Pilot DataLink Communications
INAV: Integrated Navigation
IPFD: Integrated Primary Flight Display
LDTA: Landing Distance at Time of Arrival
NG FMS: Next Generation Flight Management Systems
RNP: Required Navigation Performance
ROAAS: Runway Overrun Awareness and Alerting System
TOLD: Take-Off and Landing Data
VNAV/LNAV: Vertical Navigation / Lateral Navigation
VSD: Vertical Situation Display

1 STREAMLINED AIRCRAFT OPERATIONS

A SUITE OF FUNCTIONS AND INFORMATION DISPLAY THAT SIMPLIFIES COCKPIT OPERATIONS

NG FMS – New graphical flight planning interface





Vivid Displays & New Generation INAV / VSD:

EASy IV introduces an advanced version of the INAV moving map with interactive Vertical Situation Display, combined with new Vivid Displays.

The upgrade includes greater display resolution and contrast, new context-sensitive and interactive information layers, improved declutter logics, as well as new graphical flight planning options.

Benefits:

- Better depiction of airspace restrictions and vertical constraints.
- Pilot workload reduced in complex airspace, thanks to multiple graphical interaction.
- Sharper displays for enhanced readability in all light conditions.

1 STREAMLINED AIRCRAFT OPERATIONS

A SUITE OF FUNCTIONS AND INFORMATION DISPLAYS THAT SIMPLIFIES COCKPIT OPERATIONS

EASY IV GRAPHICAL DATALINK

Advanced Navigation and Datalink communications:

Combining the most advanced versions of Honeywell's NextGen FMS and Communication Management Function (CMF 3.4), EASy IV FMS introduces key improvements which help Falcon operators make the most of the latest Air Traffic developments worldwide.

Benefits:

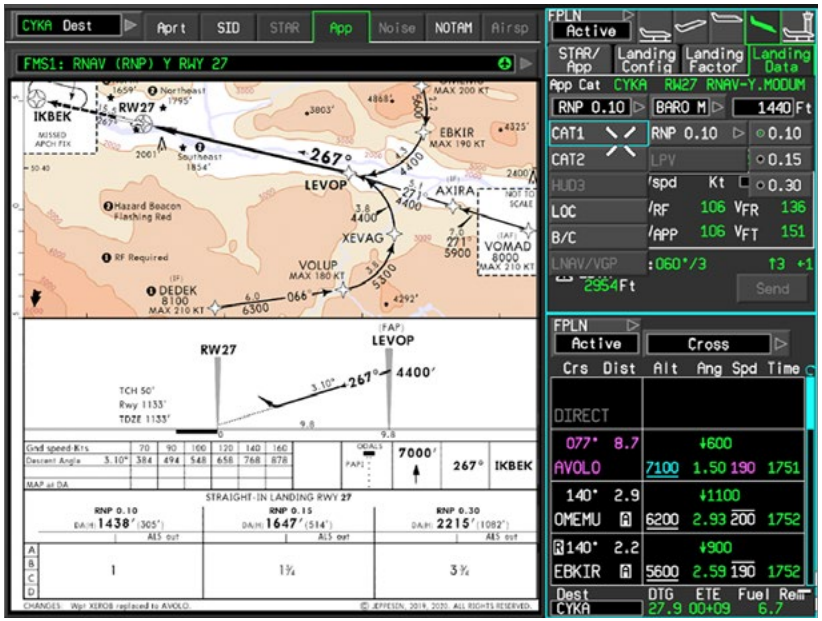
- Navigation capabilities
  - RNP AR approach capability for greater airport access.
  - Redesigned VNAV and improved LNAV over EASy II.
- Datalink communications
  - Enhanced datalink interface for seamless data communications by phase of flight.
  - Broader compliance with the various datalink standards (CPDLC and more largely AFIS) and operational requirements implemented worldwide.
- Reduced cockpit crew workload.

1 STREAMLINED AIRCRAFT OPERATIONS

A SUITE OF FUNCTIONS AND INFORMATION DISPLAYS THAT SIMPLIFIES COCKPIT OPERATIONS

RNP AR approach

RNP AR approach



RNP AR Approaches:

EASy IV includes RNP AR Approaches down to 0.1NM to improve access to runways affected by either terrain or high-density air traffic.

Benefits:

— Improves airport access with shorter arrival and approach routes, along with lower minima to avoid diversion to an alternate airport.

– Reduced fuel burns and emission with more direct approach path.

1 STREAMLINED AIRCRAFT OPERATIONS

A SUITE OF FUNCTIONS AND INFORMATION DISPLAYS THAT SIMPLIFIES COCKPIT OPERATIONS

Auto-Throttle with one engine out

Engine-out auto-throttle (A/T):

In the event of an in-flight shut down, the EASy IV engine-out A/T is capable of managing power, allowing recovering automation for the two remaining engines and freeing pilots from this task.

Benefits:

- Improved Operational Safety - Restores auto throttle operation in single-engine failure situations.
- Reduced flight crew workload in case of engine failure.
- Already a standard feature on all Falcon 8X, now available for the Falcon 7X as well.

1 STREAMLINED AIRCRAFT OPERATIONS

A SUITE OF FUNCTIONS AND INFORMATION DISPLAYS THAT SIMPLIFIES COCKPIT OPERATIONS

EASy IV Airport Charts with Night Mode activated

Enhanced Jeppesen charts:

Improved Jeppesen charts function with a new Night mode, a Panoramic mode, as well as the display of the aircraft symbol on all georeferenced terminal charts.

Benefits:

— Increases flight deck efficiency for more streamlined operations.

2 ENHANCED SITUATIONAL AWARENESS ON GROUND AND IN FLIGHT

NEW EQUIPMENT FOR INCREASED ACCESS AND DISPLAY OF ENVIRONMENTAL INFORMATION

2D Airport Moving Map

3D Airport Moving Map

2D Airport Moving Maps (2D AMM):

EASy IV provides detailed, interactive maps of large and complex airports features such as runways, taxiways, incursion hotspots, holding points, parking stands and terminals.

3D Airport Moving Maps (3D AMM):

Complements the 2D AMM function by providing a 3D view of the airport in the IPFD as the aircraft is about to land and when on the ground.

Benefits:

- Improves safety and efficiency during approach and taxi operations at large and complex airports, in all visibility conditions.
- Reduces risks of runway incursion.
- 2D AMM also supports the depiction of surface traffic featured through ADS-B In.

2 ENHANCED SITUATIONAL AWARENESS ON GROUND AND IN FLIGHT

NEW EQUIPMENT FOR INCREASED ACCESS AND DISPLAY OF ENVIRONMENTAL INFORMATION

INAV View – CDTI VSA

INAV View – CDTI AIRB

INAV View – CDTI SURF

Credit photo: Arnaud GAULUPEAU

ADS-B IN – CDTI:

Provides pilots with an enhanced perception of surrounding traffic.
Comes in 3 different applications:

- VSA (Visual Separation on Approach)
  Displays specific traffic information relative to select traffic, to facilitate visual separation.
- AIRB: displays ADS-B airborne traffic on the INAV moving map.
- SURF: displays ADS-B ground traffic (aircraft and airport vehicles) on the 2D AMM.

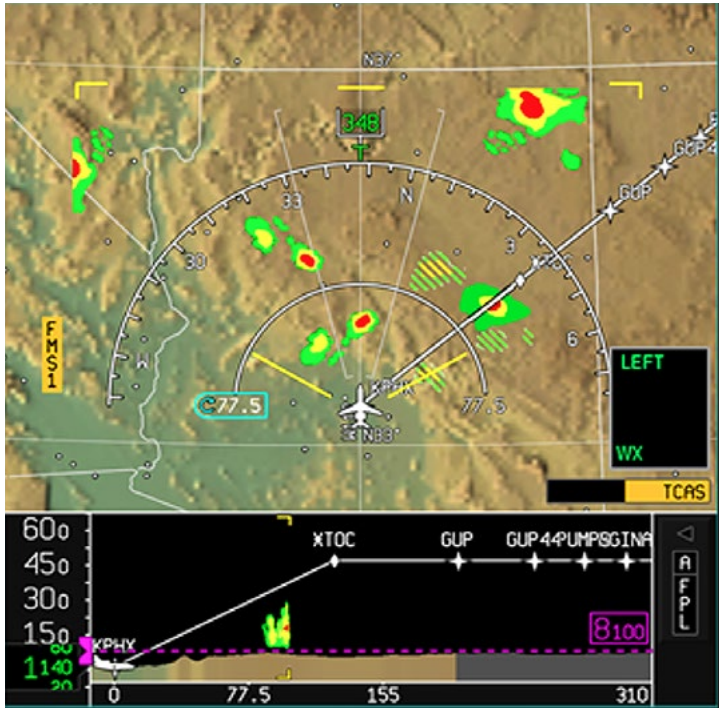
Benefits:

— Improves traffic awareness both in flight (AIRB) and on the ground (SURF).
— Improves out-of-the-window scan and traffic identification.
— Allows for better anticipation / avoidance of possible wake turbulence (AIRB).
— Helps anticipate potentially conflicting traffic situations (e.g. runway occupancy).

2 ENHANCED SITUATIONAL AWARENESS ON GROUND AND IN FLIGHT

NEW EQUIPMENT FOR INCREASED ACCESS AND DISPLAY OF ENVIRONMENTAL INFORMATION

3D weather radar



3D Weather radar

EASy IV introduces a highly automated weather radar featuring 3D volumetric scanning, advanced weather analysis.

Previously offered on the Falcon 8X, the new 3D radar is offered for retrofit on Falcon 7X as the radar 7000, introducing weather data display on the VSD, with turbulence and rain detection capability.

Benefits:

— Improved passenger comfort with smoother flights.
— Ability to strategize when facing challenging weather.
— Ability to optimize weather-induced diversions (resulting in fuel and flight time savings).

2 ENHANCED SITUATIONAL AWARENESS ON GROUND AND IN FLIGHT

NEW EQUIPMENT FOR INCREASED ACCESS AND DISPLAY OF ENVIRONMENTAL INFORMATION

SiriusXM – Graphical and Textual METAR

SiriusXM – Ice Potential

SiriusXM® weather (SXM):

Provides a fully integrated access to a newly enriched set of SiriusXM® Aviation Weather services, for unprecedented weather awareness when flying over North America (U.S., Canada and Caribbean).

Benefits:

- More efficient route with minimized weather-related route changes reduce fuel burn and associated emissions.
- Improved passenger comfort with smoother flights.
- Provides access to the widest range of weather reports and forecasts.
- Improves weather awareness with weather depiction in the VSD (available for certain services only).

IMPROVED OPERATIONAL SAFETY

ENHANCED TAKE-OFF AND LANDING PERFORMANCE COMPUTATION FOR REDUCED RUNWAY HAZARDS

EASy IV TOLD function –
Runway Condition Codes

EASy IV TOLD function –
Factored Landing Distance at Time of Arrival

Enhanced TOLD function:

EASy IV features an improved TOLD function, which allows for a detailed computation of operational and realistic landing distances.
Complies with the latest regulation updates on LTDA (Landing Distance at Time of Arrival) and RWYCC (Runway Condition Code).

Benefits:

— Allows full use of new EASA and FAA runway condition reporting standards.

— Improved ability to serve airports with challenging runways in adverse weather.

— Compliant with EASA mandate and FAA SAFO on LDTA.

3 IMPROVED OPERATIONAL SAFETY

ENHANCED TAKE-OFF AND LANDING PERFORMANCE COMPUTATION FOR REDUCED RUNWAY HAZARDS

ROOAS – airborne alert

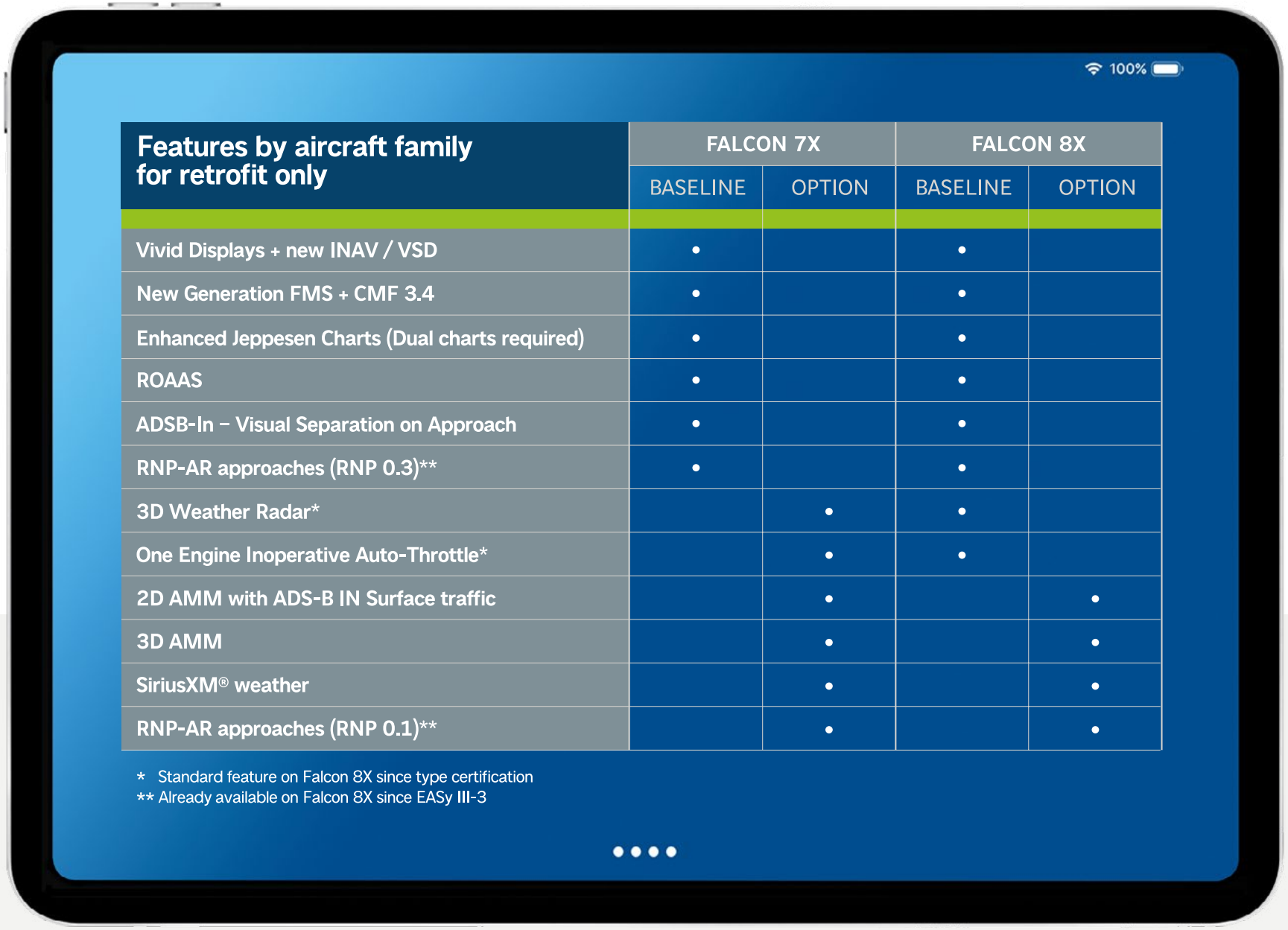
Runway Overrun Awarness and Alerting System (ROAAS):

ROAAS analyzes the aircraft trajectory and the TOLD landing performance to determine if the aircraft can safely come to a full stop within the remaining runway length.

Benefits:

- Reduces the risk of runway overrun on landing.
- Anticipates upcoming mandates.
- May facilitate reduced insurance premiums.
- Improve pilot perception of runway end margin.

FEATURES BY AIRCRAFT FAMILY
(FOR RETROFIT ONLY)



Features by aircraft family for retrofit only	FALCON 7X		FALCON 8X	
	BASELINE	OPTION	BASELINE	OPTION
Vivid Displays + new INAV / VSD	•		•	
New Generation FMS + CMF 3.4	•		•	
Enhanced Jeppesen Charts (Dual charts required)	•		•	
ROAAS	•		•	
ADSB-In – Visual Separation on Approach	•		•	
RNP-AR approaches (RNP 0.3)**	•		•	
3D Weather Radar*		•	•	
One Engine Inoperative Auto-Throttle*		•	•	
2D AMM with ADS-B IN Surface traffic		•		•
3D AMM		•		•
SiriusXM® weather		•		•
RNP-AR approaches (RNP 0.1)**		•		•

* Standard feature on Falcon 8X since type certification
** Already available on Falcon 8X since EASy III-3

DASSAULT AVIATION
78, Quai Marcel Dassault
Cedex 300
92552 Saint-Cloud Cedex
France

DASSAULT FALCON JET CORP.
Teterboro Airport
200 Riser Road
Little Ferry, NJ 07643
USA

HONEYWELL AEROSPACE
1944 East Sky Harbor Circle
Phoenix, AZ 85034
aerospace.honeywell.com
USA

For more information on EASy IV,
contact your Customer Service Manager (CSM)
or Field Technical Representative (FTR)
EASyIV@dassault-aviation.com
To order, contact your MRO or ASC Representative

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