

# ***AirFASE***®

## Flight Data Monitoring System



### **Unlock the Value in Your Flight Data**

- Compliant with all applicable FDM regulatory requirements
- An essential part of a proactive Safety Management System
- Understandable to help drive operational efficiencies

## Regulatory Compliance:

- Amendment 26 to ICAO Annex 6 Part 1
- JAR-OPS1
- FAA Flight Operations Quality Assurance Program, 14 CFR Part 13
- Civil Aviation Authority CAP 739

## Compatibility:

- Can transcribe data from all common recorder types
- Can be used for all major aircraft models, including Airbus, Boeing, Bombardier, Embraer, etc.
- Compatible with Windows 7, Windows 8, Windows 10, Windows Server 2008, SQL Server® 2008, and SQL 220RR, 2012, 2014

## Benefits:

- Provides developed and tested, risk-based event analysis
- Offers risk reduction through the identification of adverse operational trends
- Facilitates better decision making
- Supplies objective data for the optimization of training programs

## Unlock the Value in Your Flight Data with AirFASE®

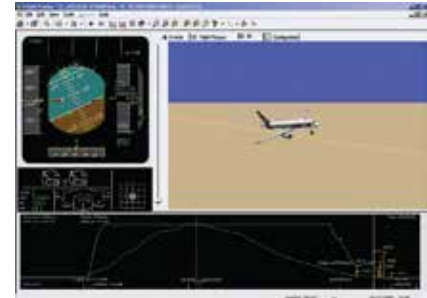
Designed to meet the most demanding requirements for FDM (also known as FOQA – Flight Operations Quality Assurance or FDA - Flight Data Analysis), the AirFASE® Flight Analysis and Safety Explorer software provides a “window into the operation” to help operators understand operational issues and improve safety by reducing incidents. By translating aircraft flight data into meaningful information, AirFASE® enables operators to evaluate flight operation trends, identify risks and initiate information-based, preventive/corrective actions.

Jointly developed and supported by Teledyne Controls and Airbus, AirFASE® offers a proven flight data analysis solution that allows operators to maintain their flight operations monitoring programs, and comply with regulatory agencies' recommendations and requirements.

The AirFASE® software performs all major functions of the flight data analysis process. The software's built-in features that include a sophisticated Flight Analysis Program (FAP), specifically designed for each aircraft type, carryout these functions. The FAP reconstructs flights and compares actual data with recommended values to identify abnormal events and calculate operational trends. Other AirFASE® features include visualization tools, such as 3D animation to facilitate investigation of specific events, as well as comprehensive reporting tools that enable the production of customized reports.

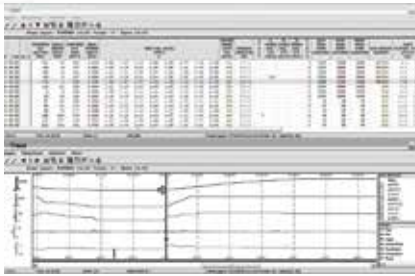
## Automated Data Processing and Analysis

- Raw flight data is translated into engineering values
- Comparisons are made between recorded flight data and standards, as specified in the flight profile specifications (flight profiles are customized according to the conditions under which the aircraft is operated)
- Detection of abnormal events and deviations
- Flight data and event views: events and flight parameters can be viewed in a numerical and/or graphical format
- Flight path: graphical views of altitude/distance, geometric path calculation, aircraft position, and synchronization with graphic representations of color-coded deviations
- Statistical analysis: reports events by phase of flight, single event deviations, combined events, risk detection events, etc.
- Events are categorized based on their level of severity



## Data Management and Security

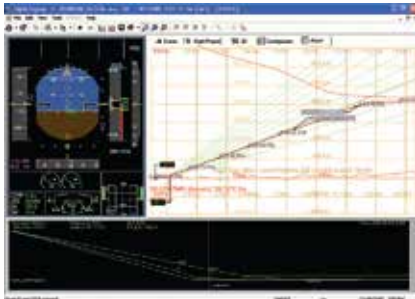
- Microsoft SQL Server RDBMS
- Data de-identification
- Secure data access and storage



## Investigation Tools

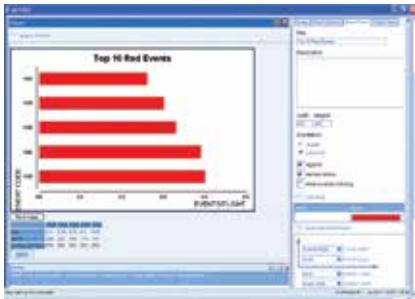
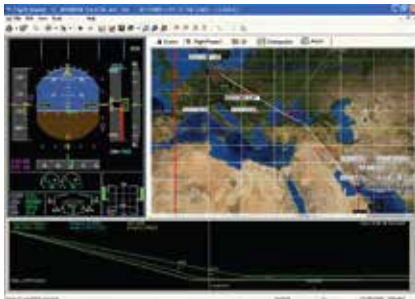
With over 20 years of proven FDM operator experience, AirFASE® brings the most advanced parameter display tools to the industry. For example, the list and trace function offers complete flexibility in the presentation and manipulation of flight data, in both numerical and graphical formats.

Vertical and horizontal profile displays give the user a clear presentation of the aircraft position in the approach and landing phases.



## Flight Profile and Animation Tools

- Interactive 360° 3D animation with zoom and flight path trace views
- Intuitive user controls for replay functions, along with second-by-second manual forward and back
- Fully synchronized displays
- Virtual cockpit instruments
- Lateral and horizontal flight profile displays
- Detailed display tools for takeoff and landing
- Scalable displays



## Reporting

### Standard Reports

- Intuitive user interface
- Ready-to-use reports: automatic access to standard reports, such as overall data statistic reports, trend reports, airport statistic reports, etc.
- Report editor: allows users to create customized reports that can be printed or displayed on screen
- Automatic periodic reports in MS Word and Adobe® PDF format
- Data exporting capability to other software applications



## Operational Benefits:

- Provides better decision making through a statistical approach to flight data analysis
- Training: supports pilot training programs through routine tracking and reinforcement of operating standards
- Engine: provides a means to monitor thrust settings and reverse use
- Maintenance: identifies system performance degradation, leading to early problem detection
- Structural: objective data on flap selection speed and touchdown
- Fuel: provides the means to monitor fuel burn during any flight phase, individually or across the fleet
- Brakes: provides access to brake usage data

## Features:

- Automatic, periodic reports in MS Word and Adobe® PDF format
- User-friendly interfaces
- Quick access to ready-to-print reports in MS Word format
- Easier information review with advanced graphical and 3D animation tools
- Highest level of data security
- Flexible de-identification options
- Multi-level user access control (ability to create user groups and assign specific access rights)

## AirFASE® Installation & Training

- Turnkey system operation
- Onsite installation and training
- Fully configured for all applicable aircraft types
- Operational training by experienced support staff

## Customer Support

To serve our worldwide customer base and meet our clients' expectations, Teledyne Controls maintains a global network of field representatives, who can provide fast, local support. We have personnel in the US and the UK, as well as in Toulouse, France; Tokyo, Japan; Kuala Lumpur, Malaysia; Dubai, United Arab Emirates; Beijing, China; and Singapore. With the diversity of our sales and service organization, we are uniquely positioned to provide our customers with the personal service and attention they deserve.

### Teledyne's Support Service Includes:

- Fault reporting online or by telephone
- A worldwide support team



AirFASE® is an essential part of Teledyne Controls' aircraft data management solutions. Designed to assist airlines with their FDM/FOQA/FDA initiatives, these offerings include innovative airborne data acquisition products, air-to-ground wireless data transfer systems and ground-based applications that integrate to deliver greater benefits to the operators and provide the total solution that airlines need for a successful flight safety program.