AIRFIELD
Technology

Automatic Flight Inspection Systems
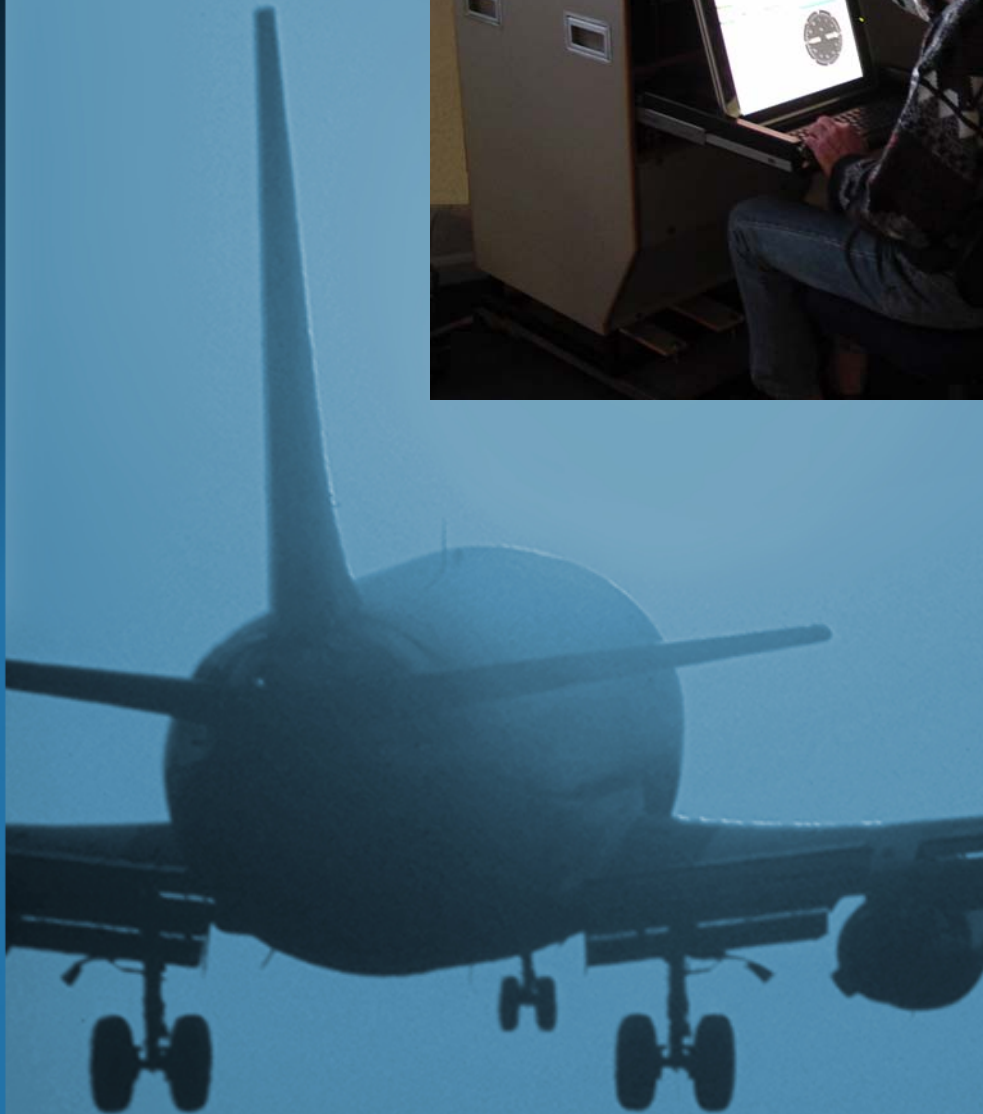
AT-930DG
Automatic Flight Inspection System (AFIS)

Airfield Technology has been building high quality flight inspection systems for more than 15 years.

The features of our top-of-the-line AT-930DG AFIS include:

- Fully Automatic Operation
- All-Weather Capability
- Differential GPS Position Reference
- High Accuracy and Maximum Reliability
- Windows® User Interface Software
- Easy to Operate and Easy to Learn
- Minimum Maintenance Requirements
- Modular System Architecture
- Long-Term Supportability

Standard Capabilities

- ILS Categories I, II, and III
- VOR
- DME
- NDB
- 75 MHz Marker Beacon
- VHF Communications
- PSR
- SSR
- PAR
- VASI / PAPI

Optional Capabilities

- TACAN
- MLS
- GPS Non-Precision Approach
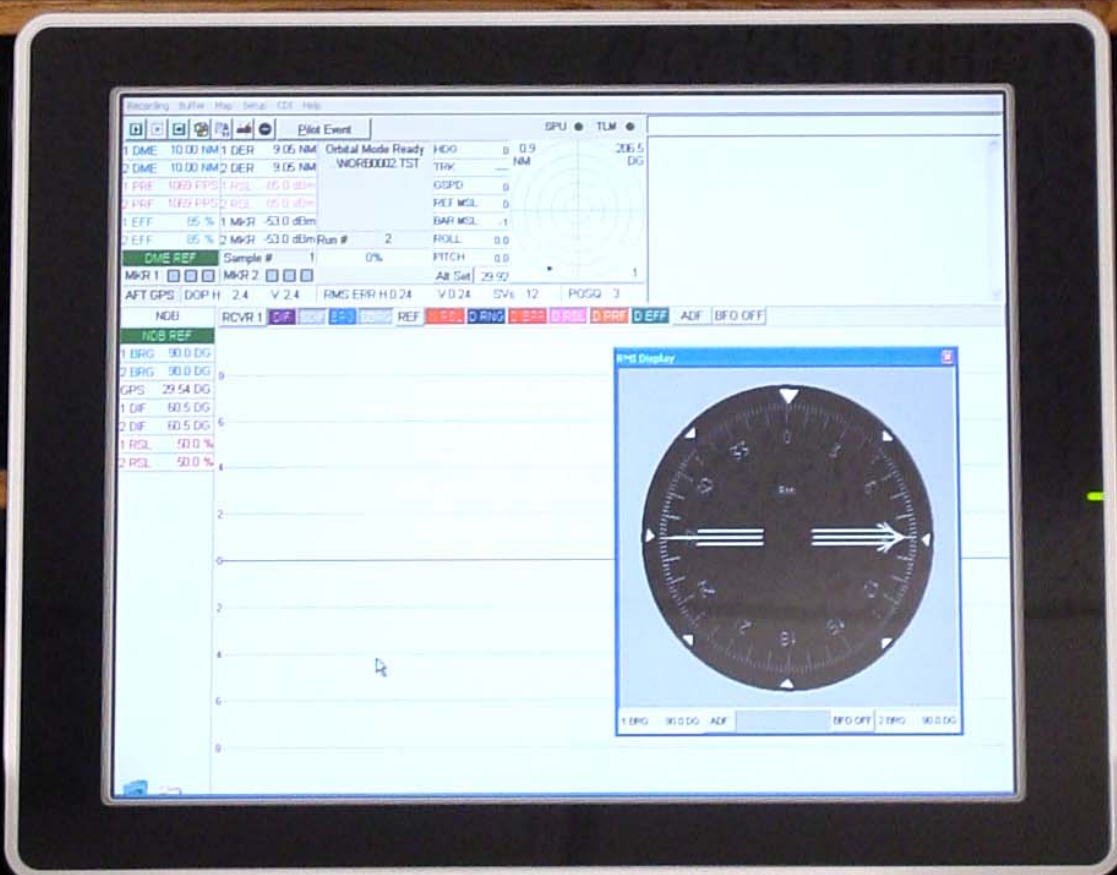- UHF Communications
- SBAS / WAAS

Growth Capabilities

- GBAS / LAAS
- RNAV
- VDB

The AT-930DG Flight Inspection System meets or exceeds the requirements of:

- ICAO Document 8071
- ICAO Annex 10
- FAA OAP 8200.1
- NATO STANAG 3374 AET P-1(B)

1200

329.00

119350
123200

ATC

UHF

COM

GPS NAV

MENU
CLR
ENT
GPS

HRST   OBS   MSG   PFL   VNAV   PROC

COCKPIT AUDIO
ON
OFF   VOL   CALL

INTERCOM
INSPECTOR   PARENTS   OBSERVER

NAV AUDIO
NAV1   TAC1   ADF1   MKR1
NAV2   TAC3   ADF2   MKR2
VOL   VOL   VOL   VOL

COMM
VHF   UHF
VHF
UHF
TX SEL   PTT

DIM

Hobbs

AT-930DG FLIGHT INSPECTION SYSTEM
AIRFIELD TECHNOLOGY

Recording Buffer Map Setup CDI Help

Pilot Event   SPU ●   TLM ●

1 DME   10.00 NM 1 DER   9.05 NM   Orbital Mode Ready   HDG   0   0.9   206.5
2 DME   10.00 NM 2 DER   9.05 NM   WORB0002.TST   TRK   ___ NM   DG
1 PRF   1069 PPS 1 RSL -65.0 dBm   GSPD   0
2 PRF   1069 PPS 2 RSL -65.0 dBm   REF MSL 0
1 EFF   85 %   1 MKR -53.0 dBm   BAR MSL -1
2 EFF   85 %   2 MKR -53.0 dBm Run #   2   ROLL   0.0
DME REF   Sample #   1   0%   PITCH   0.0
MKR 1 □ □ □   MKR 2 □ □ □   Alt Set 29.92
AFT GPS DOP H 2.4   V 2.4   RMS ERR H 0.24   V 0.24   SVs 12   POSQ 3

NDB   RCVR 1 DIF DGV BR-J DGND REF 1 RSL D RNG D ERR 2 RSL D PRF D EFF   ADF   BFO OFF
NDB REF
1 BRG   90.0 DG
2 BRG   90.0 DG
GPS   29.54 DG
1 DIF   60.5 DG
2 DIF   60.5 DG
1 RSL   50.0 %
2 RSL   50.0 %

RMS Display

1 BRG   90.0 DG ADF   BFO OFF 2 BRG   90.0 DG

Advantages

Airfield Technology's extensive experience with radio navigation aid ground equipment allows us to design flight inspection systems that provide exactly the information needed by the flight inspector to evaluate navigation aids accurately and quickly.

Fully Automatic Operation	True aircraft position is determined automatically and reliably. Avionics are tuned automatically. WinFIS software provides automatic analysis of navaid performance parameters.
All-Weather Capability	Proven DGPS / GPS position reference system provides high accuracy in all conditions of weather and visibility.
High Accuracy	Digital signal processing methods provide the most accurate measurements possible.
High Reliability	Airfield Technology flight inspection systems have achieved an incredible reliability rate as proven during years of actual field use.
Easy Operation	Windows user interface software makes the system very easy to learn and operate and provides maximum flexibility.
Easy Maintenance	Modular and elegant design yields a system that is truly easy to understand and maintain.
Long-Term Supportability	Maximum use of off-the-shelf components and modules guarantee long-term supportability and operational lifetime.

The AT-930DG uses high-quality avionics sensors combined with Digital Signal Processing to provide the highest accuracy possible.

Airfield Technology is an **ISO 9001 Certified** company

WinFIS Software

Easy to Learn

Easy to Use

Incredibly Powerful

Airfield Technology has been providing Windows® software for flight inspection longer than any other company in the industry. The first version of our WinFIS software was delivered to FAA in 1995.

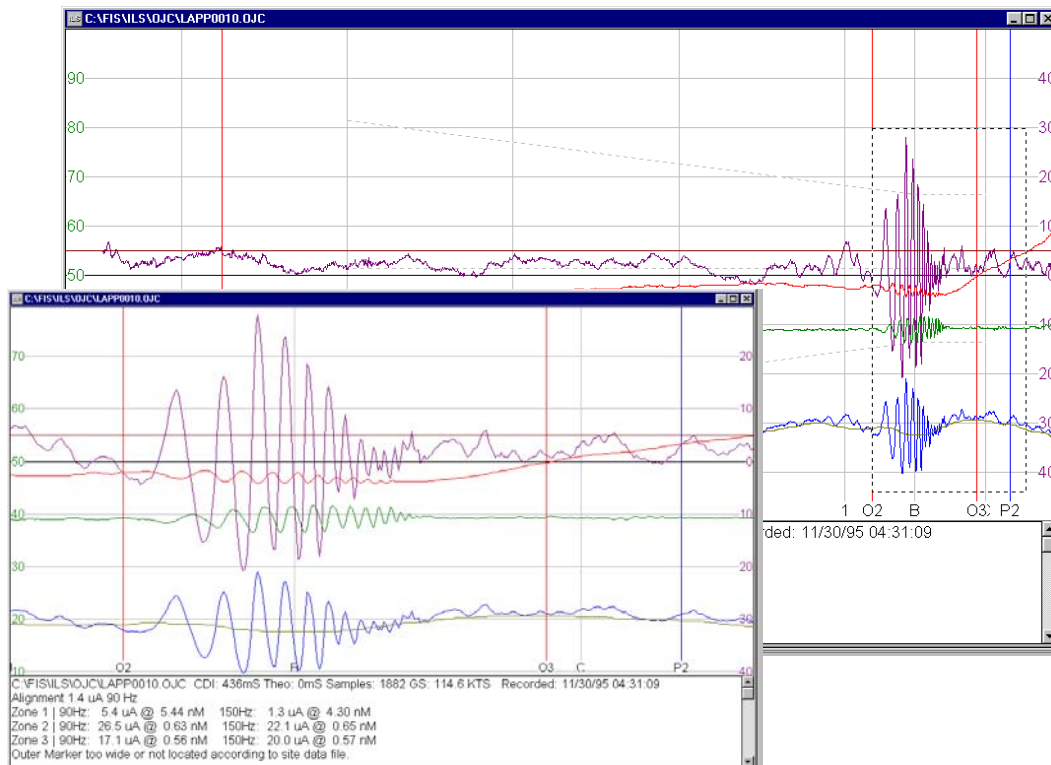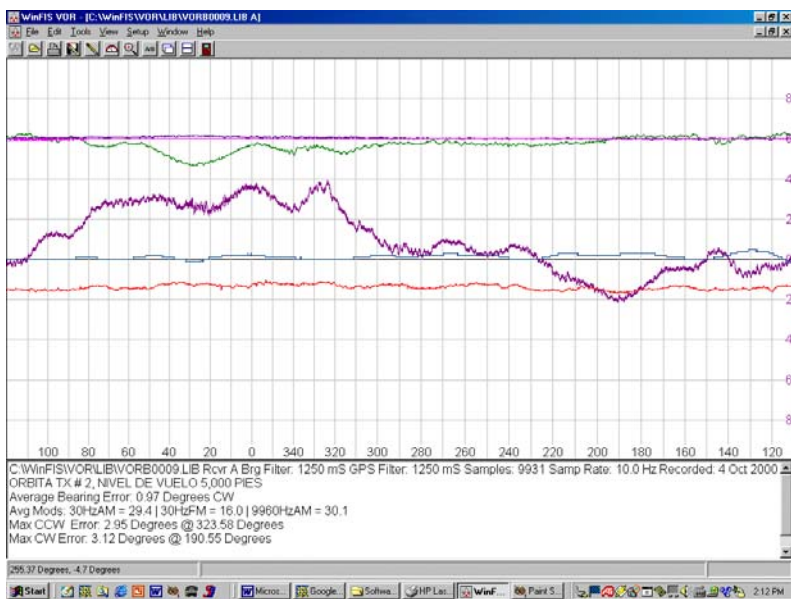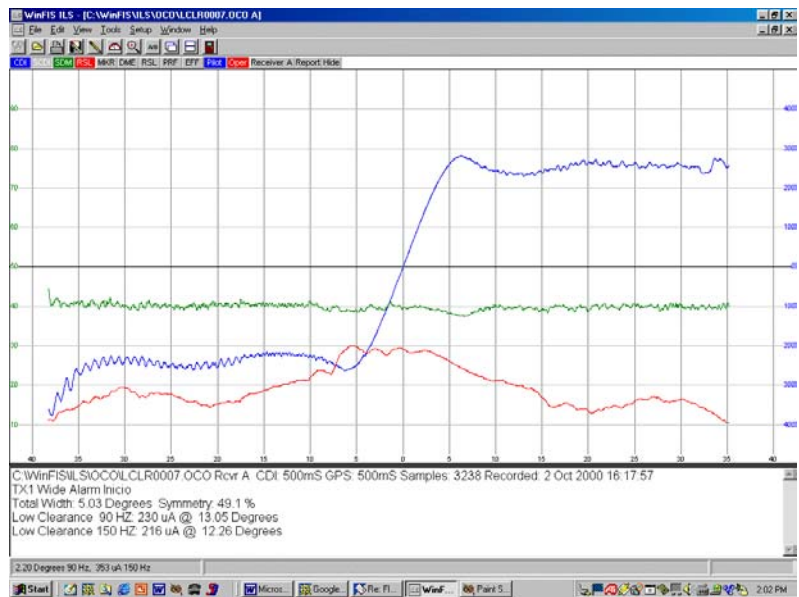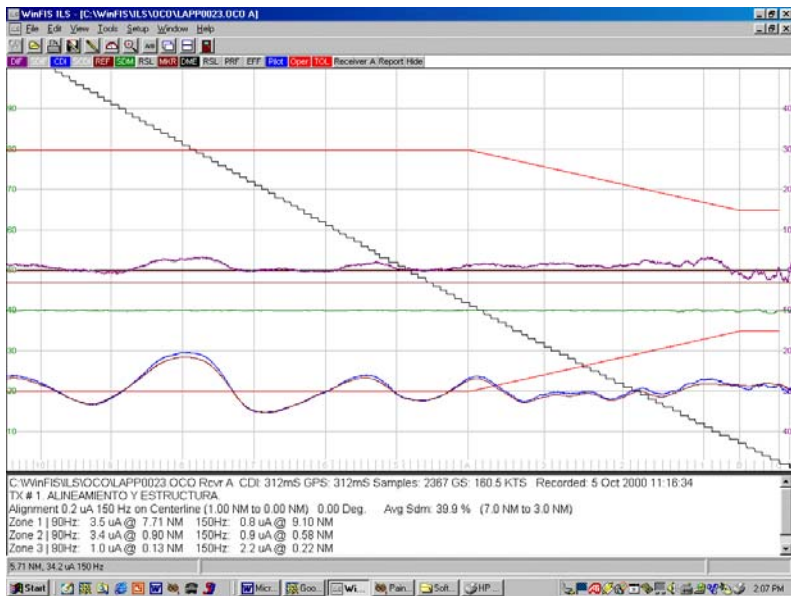|	
WinFIS software is very easy to learn, making the flight inspector comfortable immediately with the system	The software is simple, intuitive, and very easy to use, and the basics are fully understood after the first day of training
Easy to understand data and results improve communications between flight inspectors and ground-based navigation system engineers	Flight inspection software runs on any computer using Windows®, including existing computers at base office
Data may be easily copied, transferred, viewed, archived and printed on other computers	Use existing computer networks for backup/storage, no special hardware or software needed
Data can be shared using common media and methods (CD-ROM, USB Flash sticks, LAN, e-mail, etc.)	Built-in special analysis tools (graphical zoom, inspect individual samples, zone averaging, and more)
Easy to copy and paste results and data (graphical, numerical and text) into other programs (such as Word®, Excel®, etc.)	Multi-tasking – Run other programs during inspections (view procedures, reports, manuals, ICAO Doc 8071, etc.)
Built-in Help Files – Context sensitive help facility provides online reference	Print from any standard printer and computer with WinFIS installed

Screenshot 1 — WinFIS ILS - [C:\WinFIS\ILS\OCO\LAPP0023.OCO A]

File Edit View Tools Setup Window Help

Dif CDI REF SDM RSL MkR RSL PRF EFF Pilot Oper TOL Receiver A Report Hide

C:\WinFIS\ILS\OCO\LAPP0023.OCO Rcvr A CDI: 312mS GPS: 312mS Samples: 2367 GS: 160.5 KTS Recorded: 5 Oct 2000 11:16:34
TX # 1. ALINEAMIENTO Y ESTRUCTURA.
Alignment 0.2 uA 150 Hz on Centerline (1.00 NM to 0.00 NM) 0.00 Deg.   Avg Sdm: 39.9 %   (7.0 NM to 3.0 NM)
Zone 1 | 90Hz: 3.5 uA @ 7.71 NM   150Hz: 0.8 uA @ 9.10 NM
Zone 2 | 90Hz: 3.4 uA @ 0.90 NM   150Hz: 0.9 uA @ 0.58 NM
Zone 3 | 90Hz: 1.0 uA @ 0.13 NM   150Hz: 2.2 uA @ 0.22 NM

5.71 NM, 34.2 uA 150 Hz

Screenshot 2 — WinFIS ILS - [C:\WinFIS\ILS\OCO\LCLR0007.OCO A]

File Edit View Tools Setup Window Help

CDI SDM RSL MkR DME RSL PRF EFF Pilot Oper Receiver A Report Hide

C:\WinFIS\ILS\OCO\LCLR0007.OCO Rcvr A CDI: 500mS GPS: 500mS Samples: 3238 Recorded: 2 Oct 2000 16:17:57
TX1 Wide Alarm Inicio
Total Width: 5.03 Degrees Symmetry: 49.1 %
Low Clearance 90 HZ: 230 uA @ 13.05 Degrees
Low Clearance 150 HZ: 216 uA @ 12.26 Degrees

2.20 Degrees 90 Hz, 353 uA 150 Hz

Screenshot 3 — WinFIS VOR - [C:\WinFIS\VOR\LIB\VORB0009.LIB A]

File Edit Tools View Setup Window Help

C:\WinFIS\VOR\LIB\VORB0009.LIB Rcvr A Brg Filter: 1250 mS GPS Filter: 1250 mS Samples: 9931 Samp Rate: 10.0 Hz Recorded: 4 Oct 2000
ORBITA TX # 2, NIVEL DE VUELO 5,000 PIES
Average Bearing Error: 0.97 Degrees CW
Avg Mods: 30HzAM = 29.4 | 30HzFM = 16.0 | 9960HzAM = 30.1
Max CCW Error: 2.95 Degrees @ 323.58 Degrees
Max CW Error: 3.12 Degrees @ 190.55 Degrees

255.37 Degrees, 4.7 Degrees

Quality

At Airfield Technology, providing the highest quality product to the customer is our primary objective. You can rest assured that every detail will be given close attention.

Proven customer satisfaction

Impeccable references

At the start of a project Airfield Technology prepares a detailed Interface Control Document that specifies exactly what equipment is to be installed, where, and how.

Detailed drawings are prepared to show exactly where the system consoles, antennas and other equipment will be installed.

If the aircraft configuration does not have a proven history of successful use for flight inspection, a sophisticated electromagnetic modeling program is used to calculate the antenna radiation patterns for the key flight inspection system antennas.

Any potential problems with antenna performance are identified and resolved, and the optimum antenna locations on the aircraft are determined before installation.
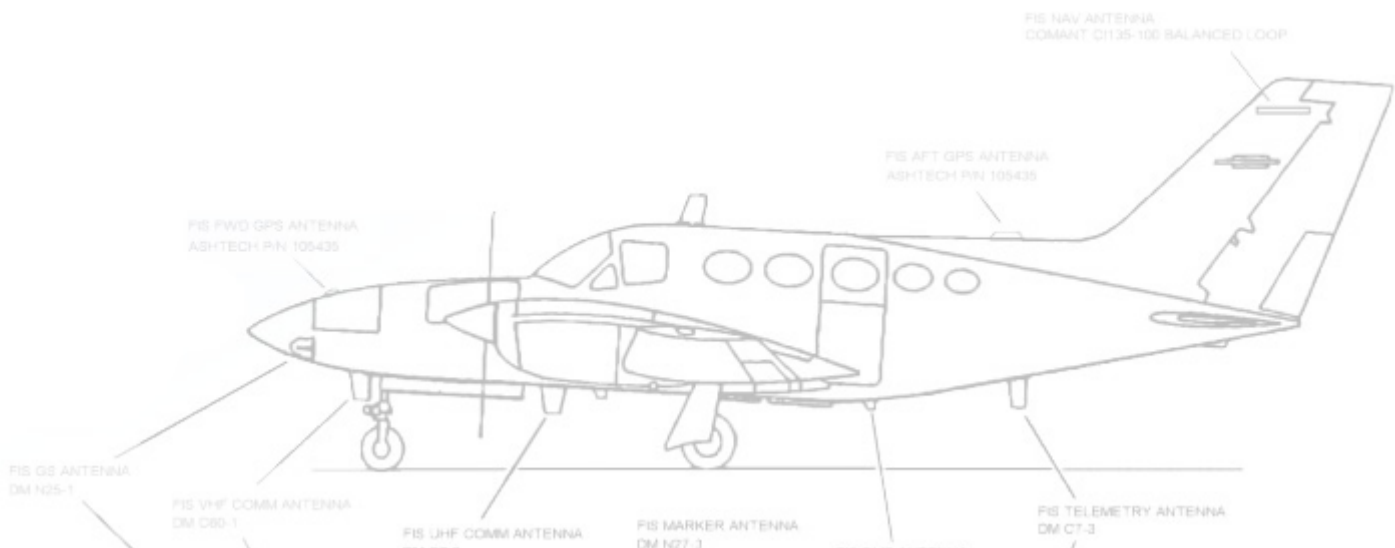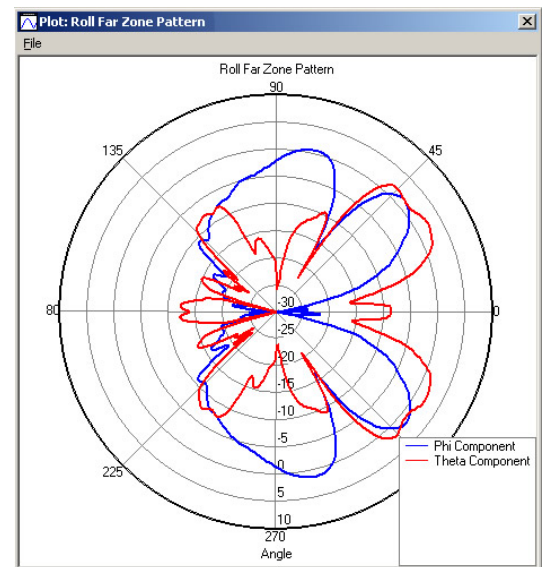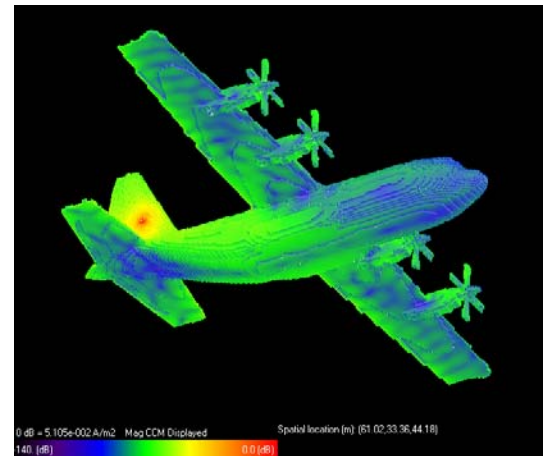
ISO 9001 Certified

Airfield Technology is an ISO 9001 certified company.

The certification confirms that Airfield Technology and our Quality Management System meet the rigid requirements of ISO 9001.

The ISO certification process ensures ongoing compliance to performance standards by requiring periodic audits by external registrars.

This achievement represents our dedication to excellence and indicates our position as an industry leader.

ISO registration also supports our pursuit of continuous improvement and our objective of providing all customers with the best possible products.

The reliability of our products in actual field use has been remarkable, and our commitment to ISO 9001 certification demonstrates our resolve for the future.

Experience

Airfield Technology is the oldest and most experienced flight inspection system manufacturer in the United States. Established in 1991, the company remains to this day under the original management.

Solid, stable and reliable. You can count on us to be there when you need us.

15+ years in business

19 systems manufactured

36 different countries

33 different aircraft

2005	Poland Air Defense Forces / US Air Force
2004	FAA – United States Federal Aviation Administration
2003	Airways Corporation of New Zealand
2003	FAA – United States Federal Aviation Administration
2003	United States Army – Air Traffic Control Activity
2001	COCESNA (Central American Corp. for Air Navigation Services)
2000	Mongolia Civil Aviation Authority
2000	COCESNA (Central American Corp. for Air Navigation Services)
1999	Airfield Technology, Inc.
1999	Alenia-Marconi Systems (ASI)
1998	Navigation Aeronav
1997	Airways Corporation of New Zealand
1997	Radiola Corporation Ltd.
1996	FAA – United States Federal Aviation Administration
1995	FAA – United States Federal Aviation Administration
1995	FAA – United States Federal Aviation Administration
1995	Airfield Technology, Inc.
1992	Korea Civil Aviation Authority
1991	Airfield Technology, Inc.
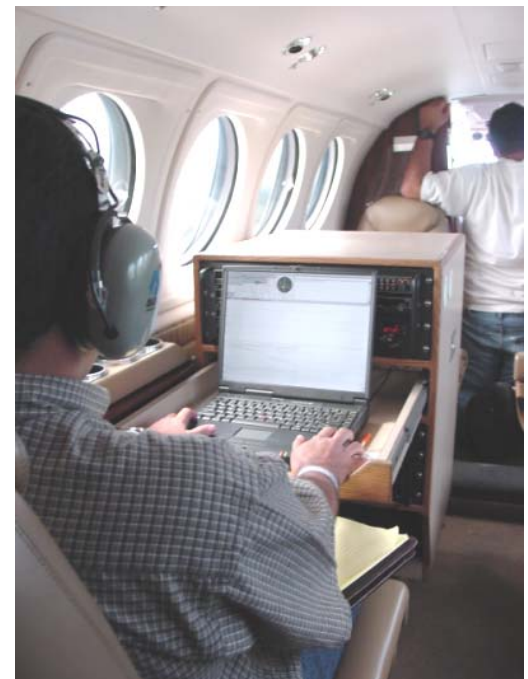
Airfield Technology is committed to providing the finest customer service and support in the industry. We would be happy to discuss your flight inspection requirements and to provide any support we can to assist you in keeping the world's airways safe.

For more information, please contact us.

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