



NYXT Flight Inspection Systems



NYXT



2008 New Flight Inspection System



KCAB Cessna Citation Encore

- Next Generation flight inspection system
- Multiprocessor NCU
- Full Windows/XP Graphical Workstation
- HYBRID IRU, DGPS and RTT positioning
- High resolution digital TVPS camera
- New console design



Custom Console Designs



Custom Keyboard with Flight Inspection Hot Keys



Next Generation NCU



- ARINC 600 6MCU form factor (Small footprint)
- Multi processor design
- Power PC main processor
- Green Hills Integrity OS
- Ethernet connectivity
- Multiple display capability
- External data logging
- DO-160C compliant
- DO-178B compliant

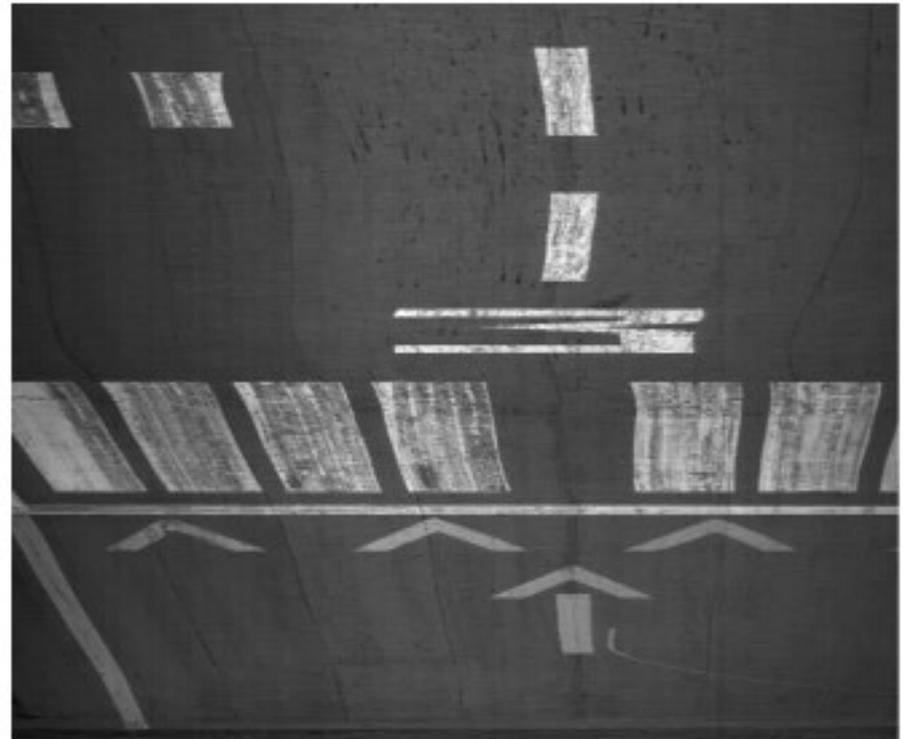




Digital TVPS Camera



- High resolution digital line scan camera
- Position accurate to less than one foot





Signal Analysis and Direction Finding



- Integrated Spectrum Analyzer
- Workstation remote control operations
- Software controlled antenna selection

- Integrated Direction Finding
- Drives cockpit RMI display
- Remote Workstation configuration and control
- Workstation RFI / RMI display





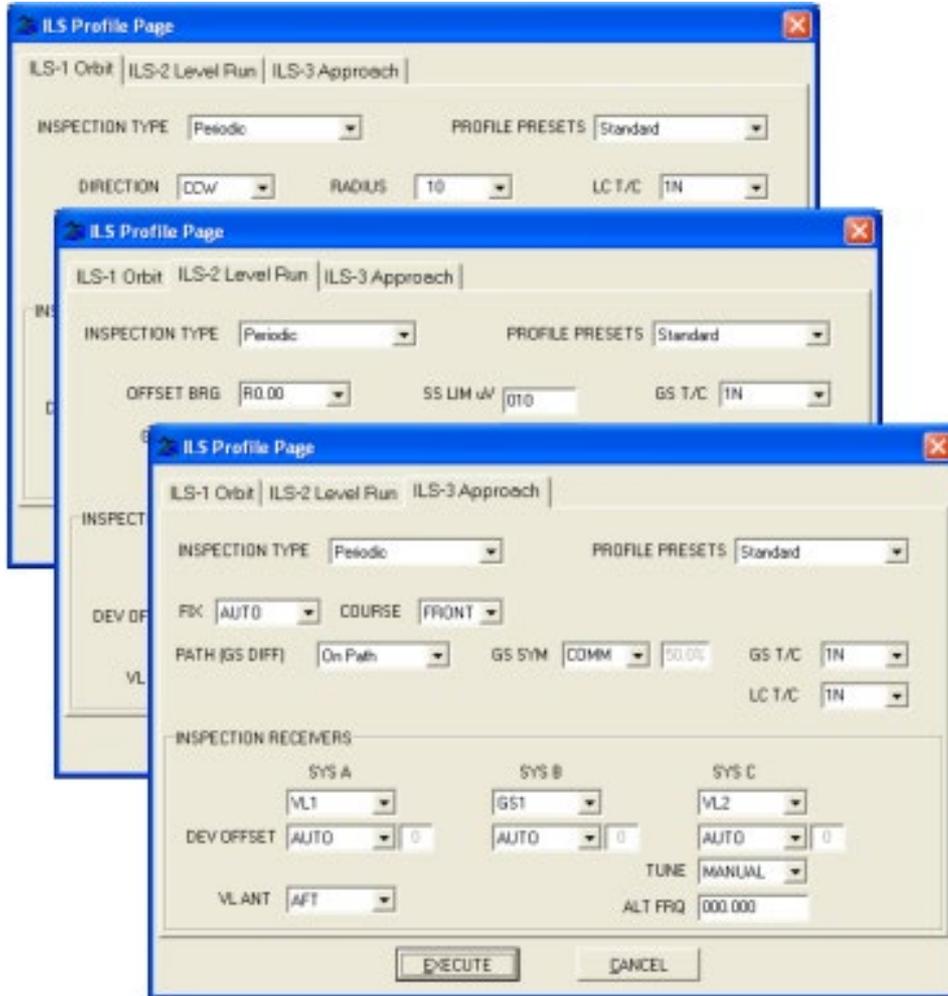
AFIS View - Graphical User Interface



- Windows/XP based Graphical User Interface
- Multiple Graphic display bands
- User has full control of graph presentation
- Complete zooming, scrolling, and custom axis settings
- Multiple window display
- Situation Awareness
- Sensor monitor
- Mission summary reports



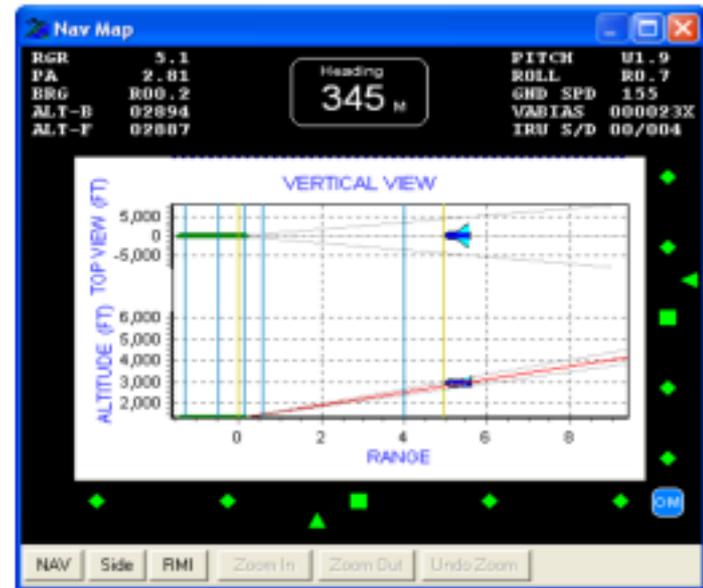
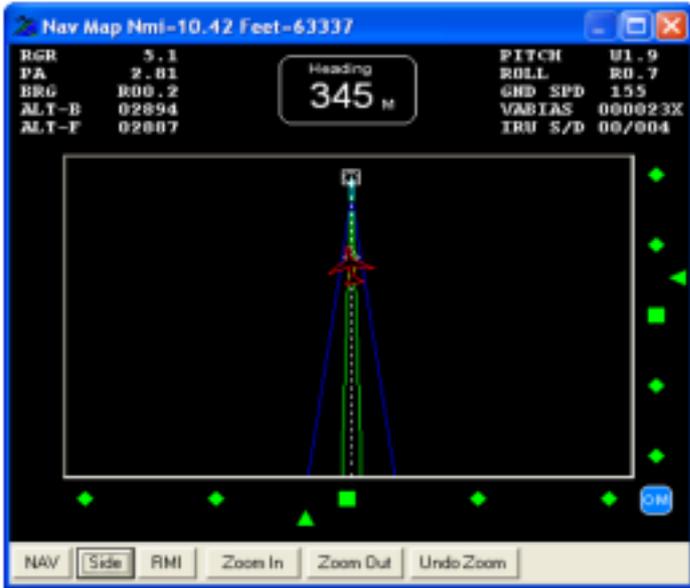
Quick and Easy Inspection Mode Setup



- One button press access to all mode setup parameters
- Predefined parameters accommodate for 99% of setup requirements
- Parameters settings retained between runs and missions



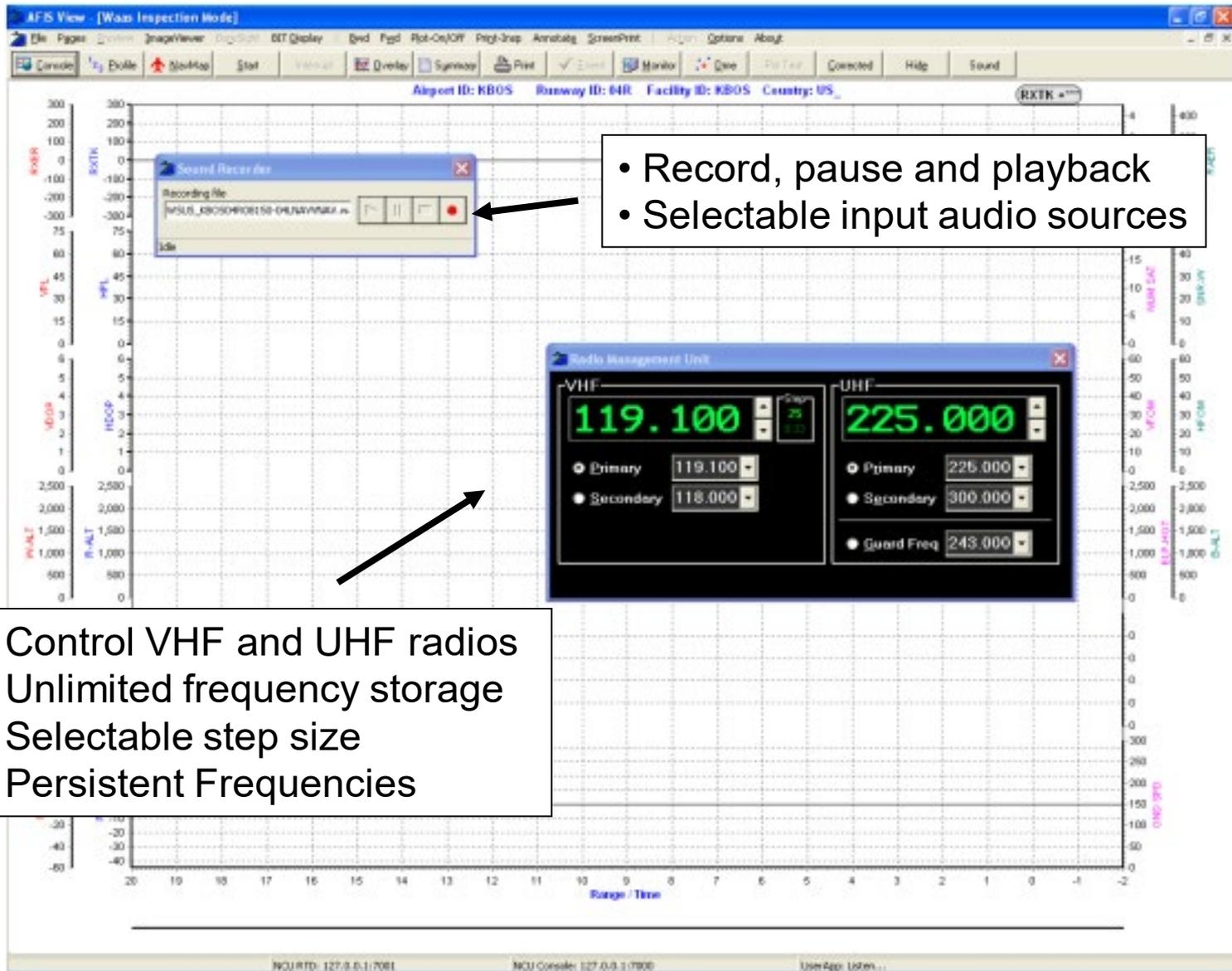
Situation Awareness



- Multiple views
 - NAV – Site display
 - Side View
 - Selectable RMI pointers
- Data Displayed
 - Aircraft position
 - Transmitter locations
 - Projected path
 - RFI / RMI indicators



Radio Management and Sound Recording

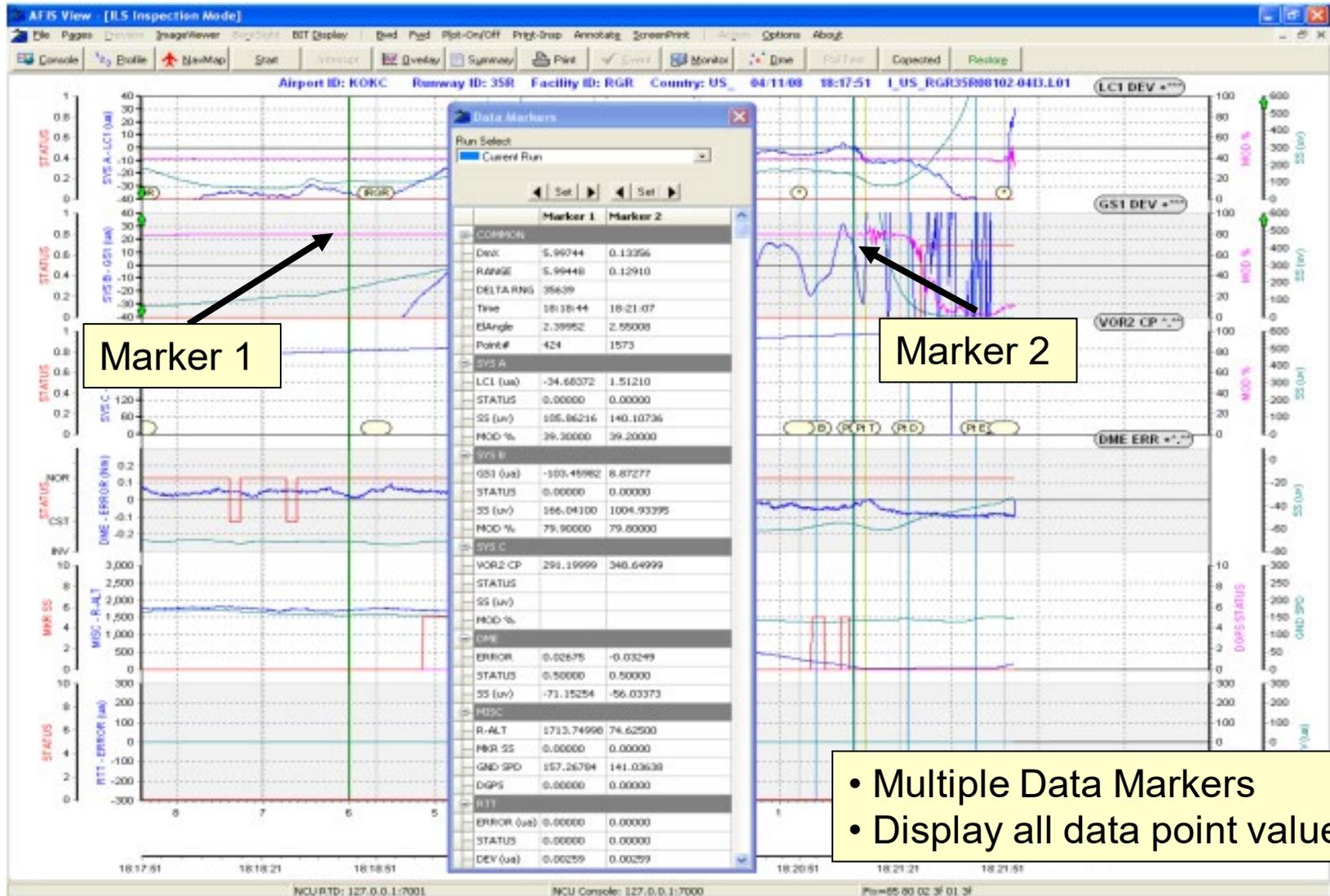


- Record, pause and playback
- Selectable input audio sources

- Control VHF and UHF radios
- Unlimited frequency storage
- Selectable step size
- Persistent Frequencies



Data Point Analysis





Integrated Reporting System

ILS Summary Report: I. US. RGR35R08102

Facility: APT: KDKC FAC: RGR RW: 35R CAT: 2 ACFT: Date(s): 04/11/08
 TYPE INSP: Periodic COMM WID: 0.70° COMM ANG: 02.90° COR FAC Tx1: +**,** Location:
 RID: SIC: Tech: COR FAC Tx2: +**,** Remarks:

BFSL
 FDB PA: 02.90 TH DIS: 1088.0 TH HGT: +1282.0 TCH/RDH: 056.32 GS LAT: N035°22'52.40 AIM PT LAT: N035°22'52.39
 GS OFF: L00001 GS HGT: +1284.0 GPI RNG: 01111.69 GS LON: W097°35'20.13 AIM PT LON: W097°35'20.10

Display Print

Status	Run	Profile	Date Start Stop	ILS 1 ILS 2 ILS 3-L ILS 3-G	TC ILS 2 ILS 3-L ILS 3-G	SS / BRG TC SS / BRG TC SS / BRG	--- Mod	CLR 90 PA ALN PA	CLR 150 C-PA Z1 Z1	CW 5BP Z2 Z2	SYM% SYM% Z3 Z3	Mod % 90 WID-90 Z4 PT-B	Mod % 150 WID-150 Z5 PT-C	ALT-B WID-T PT-T	ALT-B	Dmc Err Rng Brg	Dmc SS Rng Brg
1	ORBIT ILS 1 CW / 10.0	04/11/08 18:01:19 18:06:39	Loc F	1N	028 / R39.7			260 / 14.1	175 / 39.7	03.63	49.54	41.1 / 31.4	62.4 / 39.6	02503		00.09 10.31 L16.35*	-76.00 10.31 R11.02*
2	ORBIT ILS 1 CCW / 10.0	04/11/08 17:54:18 17:57:44	Loc F	1N	040 / L35.3			260 / 13.8	251 / 14.7	03.66	49.60	41.5 / 30.8	40.7 / 33.5	03498		-0.12 10.29 L17.71*	-75.00 10.29 R26.59*
3	LEVEL ILS 2 CL	04/11/08 18:10:28 18:13:07	GS	1N	040/12.5			02.86	**,**	01.96	48.8	00.35	00.36	00.71	02907	-0.06 12.36 L00.65*	-73.00 11.93 R00.65*
4	APOH ILS 3 ON Path	04/11/08 18:17:51 18:25:38	Loc F GS	1N	63 / 7.7 63 / 8.4	38.9 79.9	L007 02.96	-003 / 04.45 +004 / 08.17	+001 / 00.69 +009 / 00.59	+003 / 00.18 +002 / 00.00	+005 / 00.00 +036 / 000.14 00178	-015 / 01.28 +071 / 000.00 00119	+071 / 20.90		00.09 05.53 L00.54*	-77.00 03.98 R00.54*	

- Records results for all runs
- Procedure audit trail
- Printable reports
- Data exportable in XML format



DME/DME - Inspection Mode

APIS View [Dme/Dme Inspection Mode]

Airport ID: KBOS Runway ID: 04L Facility ID: KBOS Country: US 03/20/07 11:56:38 DDUS_KBOS04L07079-65APCHL01 (Rate: 0.00)

Monitor Page

Position	Facility	Results	Status	Waypoint	LegSummary
VOR ID	905			PEE	TSE
P-RNG	018.04			PRS	0.00 0.00
R-RNG	054.67			ARG	0.00 0.00
2D XTE ERR	000.31			STATUS	PASS PASS
BRG ERR	000.03				
VOR SS	179				

Monitor Page

CRITICAL DME FAILURE	AVG	WST	DIST	STATUS
PEE	0.00	0.00	80.0	PASS
TSE	0.01	0.00	80.0	PASS

VOR/DME DATA

VOR ID	AVG BRG ERR	WST XTK ERR	TRK DIST	STATUS
BOS	P	C	30 018.0	045 00.00 *** 00.01 16.23 *** **
LVM	D	F	30 036.6	043 00.04 *** 00.00 16.30 *** **

Nav Map Nmi-70.29 Feet-427102

FP END	16.1	PITCH	00.0
PA	***	ROLL	020.0
BRG	222.3	GND SPD	220
ALT-E	05000	V/IAS	-00084
ALT-F	04998	IRU S/D	00/000

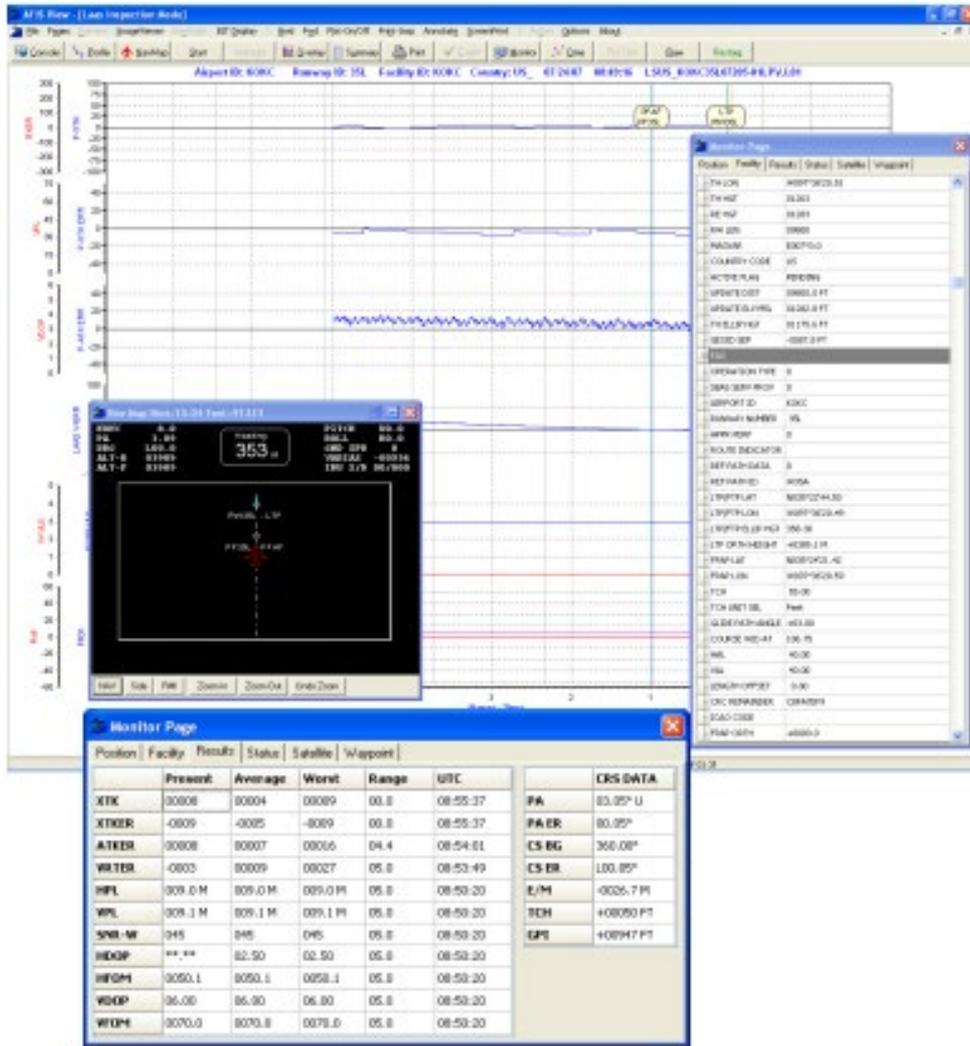
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NAV Side PMI Zoom In Zoom Out Undo Zoom

- Multiple DME Channels monitored
- Leg Summary report data consisting of out of tolerance areas
- Display of DME, waypoints and flight route
- Display DMEs used during inspection



SBAS and GBAS Inspection Modes



- Full support of SBAS / WAAS
- Full Support of GBAS / LAAS
- Display Type 1 (PR Correction Data) Message
- Display Type 2 (Integrity Data) Message
- Display Type 4 (FAS data block) Message
- Support Rockwell Collins GNLU 930 and 955 units



Air To Ground Data Link

What you see in the air, you see on the ground

- Used by FAA / NASA to down link critical flight inspection data for facility maintenance
- Supports Ethernet ready radios / satellite connection
- Data Link provides remote access and control of all flight inspection parameters
- Security access levels can be established
- 40 mile coverage using low power spread spectrum radios
- 900 Mhz and 340 Mhz frequency allocation



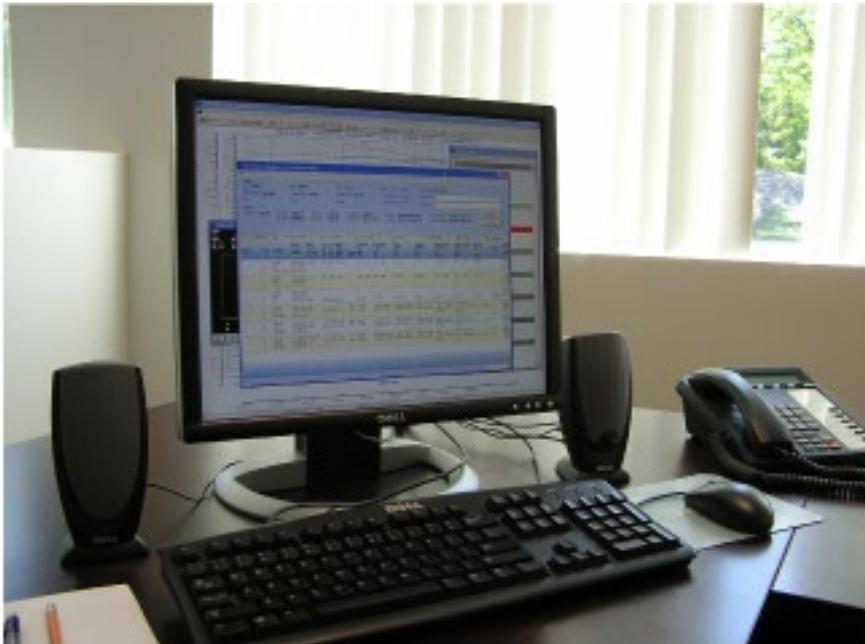
DataMover SS



DataMover ESS-II



Office Desktop Mission Replay



- Replay mission data on office desktop
 - Review runway images and replay sound files
 - Generate end user reports
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- Overlay and compare multiple runs in order to analyze facility trends over time
 - Aircraft simulation mode for training new operators
 - Extract mission data for special post data analysis



WHEN THE FIRST APPROACH HAS TO COUNT

NXT's Automatic Flight Inspection product line includes a full spectrum of flight inspection systems, products and resources.



NYXT Flight Inspection Systems

A World Leader in Flight Inspection Systems

