COLLINS AIRSHOW 420: FEATURES.

CUSTOM GRAPHICS

Customized, 3-D computerized animation captures passengers' attention. Our content services group creates dynamic graphics for airline presentations, briefings and duty-free sales. Collins Airshow 420 stores hundreds of high resolution, custom graphics that can be updated quickly and easily through a CD-ROM.

ENHANCED GRAPHICS

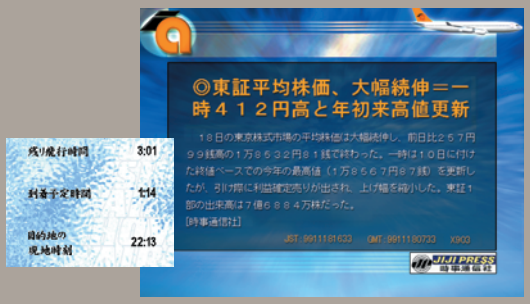
Collins Airshow 420 can display graphics based on different triggered parameters. Special graphics can be used for display throughout the flight (boarding, takeoff, cruise, descent and landing). Displays can include date and time, flight route or destination, time or distance from departure to the destination, ground speed or altitude and aircraft position.

AUDIO BRIEFINGS

Professionally recorded audio briefings can be automated or manually triggered. The briefings are digitally stored and can be shown with corresponding graphics. Standards for volume and clarity are followed to ensure consistency.

MULTIPLE LANGUAGE CAPABILITY

Collins Airshow 420 serves international passengers with audio and text in a variety of languages. Enhanced graphics allow the system to display a variety of images within specified parameters, such as cruise or descend phase, altitude and time to destination.

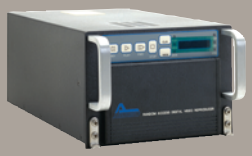


COLLINS AIRSHOW 420/RADVR: SPECIFICATIONS.

DATA INTERFACE UNIT (DIU)

Mechanical	1/2 ATR
DIMENSIONS	
Height	7.62 in. (193.5 mm)
Width	4.88 in. (124.0 mm)
Length	12.69 in. (322.3 mm), 14.28 in. (362.7 mm) w/handle
Weight	10.8 lbs (4.90 kg)
Power	+28 VDC, 66 W maximum
ENVIRONMENTAL	
Temperature	0° to +50°C (operating)
Altitude	-1000 ft. to +15,000 ft. (operating)
Vibration	+/-1.75G RMS, 10 to 2,000 hertz random
CONTROLLER	Airshow Control Unit (ACU) RS485 IFE System Control Panel
ARINC DIGITAL INPUTS	RS419/429 2-Wire Bus, 6-Wire Bus (ARINC 561)
ANALOG INPUTS	ARINC 565 Static Air Temperature with +20 VDC Reference
ANALOG OUTPUTS	Channel Audio Out to PA Amplifier NTSC Composite, Y/C (S-Video), Balanced Video
DISCRETE INPUTS	10-Wire Altitude Gray Code Audio Mute Software Assignable Inputs (4) Airborne Radio Telephone Switches
DISCRETE OUTPUTS	Airborne Radio Telephone
RS232 SERIAL INTERFACE	Mouse Port Printer Port Modem Port for 4800, 2400, 1200 or 300 bps data transfer

RANDOM ACCESS DIGITAL VIDEO REPRODUCER (RADVR)



Mechanical	3/4 ATR ARINC 628 Compatible 3/4 ATR ARINC 722 Compatible
DIMENSIONS	
Height	5.25 in. (133.4 mm)
Width	7.50 in. (190.5 mm)
Length	12.50 in. (317.5 mm), 14.12 in. (358.6 mm) w/handle
Weight	13.5 lbs (6.12 kg)
Power	+28 VDC, 2 W maximum 115 VAC, 400 Hz, 57 W (nominal), 75 W (maximum)
ENVIRONMENTAL	
Temperature	0° to +40°C (operating)
Altitude	-1000 ft. to +15,000 ft. (operating)
Vibration	+/-7G RMS, 10 to 2,000 hertz random
DIU CONTROL INTERFACE	RS485 Interface (ARINC 485 compatible)
VIDEO	
Channels	One input, two outputs
Standard	NTSC, Composite, Y/C (S-Video)
Resolution	640 x 480 pixels
Play time	120+ minutes on two CD-ROMs or 250+ still images
Colors	128,000
Format	MPEG-1 (ISO 11172), VCD/TARGA images
AUDIO	
Channels	Two audio channels per video channel
Format	MPEG-1 (ISO 11172)

For more information, contact:

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Rockwell Collins

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COLLINS AIRSHOW 420

Moving Maps, Flight Information and Entertainment Services for Airlines

Collins Airshow 420 technology brings reliable, real-time information, orientation and entertainment services to airline passengers who want to stay informed and connected.

THE ULTIMATE SOURCE FOR AIRBORNE INFORMATION.

Collins Airshow 420 delivers information that satisfies the needs of the airline passenger. That's important in today's fast-paced, information-driven world where connectivity is crucial and time is at a premium.

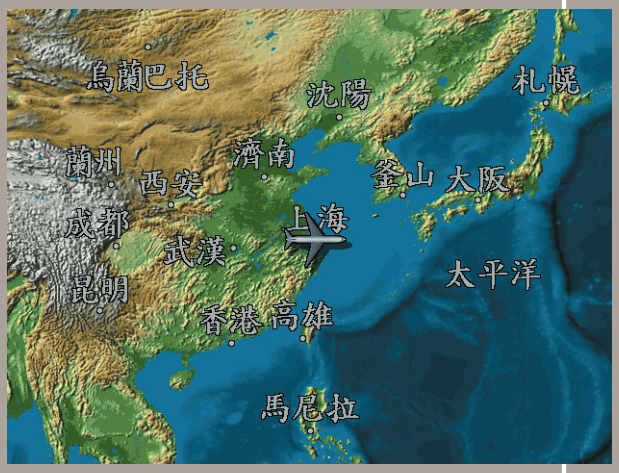
Collins Airshow 420 provides real-time status of the aircraft's position and route of flight. Multicolored maps show the aircraft's position and route, plus information such as ground speed, altitude, time to destination and estimated arrival time. In addition, the system also has the capability of providing real-time news and connecting gate information.

The system provides a variety of maps that feature a wide spectrum of choices for passengers. Topographic, photographic and 3-D perspective maps - along with up-to-the-minute information on current flight status - furnish passengers with an unsurpassed sense of time and location. Collins Airshow 420's Journey Management system automates the entire flight experience with features such as passenger greetings and information regarding points of interest.

People desire information. With Collins Airshow 420, passengers will feel assured they are being provided with the most complete source of flight information available today.

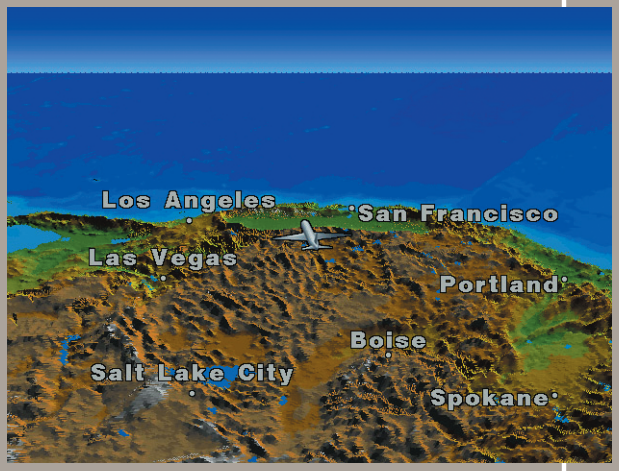
Rockwell Collins

MOVING MAPS: THE WORLD IN PERSPECTIVE.



Photographic

High Resolution



3-D

A variety of maps are available with Collins Airshow 420, including color-contrast options, worldwide coverage and customized map packages.

PHOTOGRAPHIC MAPS BRING REALISM TO FLIGHT TRACKING

Color-enhanced maps, using actual satellite images, portray a realistic view of the terrain for passengers. Satellite data is merged with enhanced terrain elevation and ocean depth data to provide an accurate, photo-realistic image of the earth's geography at any location.

MAPS BLEND HIGH RESOLUTION WITH BROAD COVERAGE

Topographic maps show city names and points of interest to give a detailed view of your flight path. Maps are available in worldwide coverage.

3-D OR OVERHEAD MAP VIEWS GIVE A UNIQUE PERSPECTIVE

With the most detailed topography of any moving-map system, the Collins Airshow 420 puts the flight progress in clear perspective. Simulated terrain is portrayed as it would appear from the flight deck on a clear day.

COLLINS AIRSHOW 420: OPTIONS.

Airshow Network

Connecting Gate

RADVR

Collins Airshow 420 offers a variety of options that enhance the flight experience. The options link passengers to the world with news, entertainment and connecting gate information.

AIRSHOW NETWORK

Collins Airshow Network satisfies passengers' need to know. Airlines can choose from a variety of subscription services that connect passengers with updated reports such as headline news, financial markets and weather.

The system is supported 24 hours a day by Rockwell Collins' Network Operations Center. A sophisticated network of servers and proprietary software provides passengers and pilots with the information they want while in flight.

Collins Airshow Network can be customized to fit individual airline needs. The system can be scripted based on flight phase or other designed triggers. Configurations may include combinations of connecting gate information and various news and weather content services. The result is a seamless presentation that keeps passengers entertained and informed.

CONNECTING GATE INFORMATION

Collins Airshow 420 provides an optional Aircraft Communications Addressing and Reporting System (ACARS) that displays connecting gate information and terminal charts on the aircraft's video system. Passengers receive vital connecting gate flight information through a text display. That information is also dynamically portrayed through the use of an aircraft symbol at the arrival gate.

RANDOM ACCESS DIGITAL VIDEO REPRODUCER (RADVR)

The RADVR is a CD-based audio/video player that can be remotely controlled and programmed when interfaced with Collins Airshow 420. The system presents a variety of entertainment and information segments combined with Collins Airshow 420 displays. Collins Airshow 420 continually updates the aircraft's position and route, allowing the RADVR to automatically select and play the correct video/audio segment at the designated time.

JOURNEY MANAGEMENT: TAILORED INFORMATION FOR AIRLINE PASSENGERS.

Journey Management is the concept of automatically choreographing information and entertainment material to be presented throughout the flight. From takeoff to landing, Collins Airshow 420's Journey Management capability provides captivating sights and sounds that will inform and entertain passengers.

The system greets passengers with a "Welcome Aboard" message. Maps, short-subject programs, advertisements, headline news, destination weather, arrival video and connecting gate information can all be displayed depending on airline configurations.

A defined set of events, tailored to the airline's requirements, triggers the information. The system offers numerous Journey Management trigger conditions, which can be tailored to the airline's requirements.