



OUTERLINK
GLOBAL SOLUTIONS



PRODUCT LINE AND DATA INFORMATION



THE IRIS CONTROL HEAD PROVIDES A CONTINUOUS MINIMUM 30+ HOUR RECORDING LOOP OF UP TO THREE HIGH DEFINITION IP CAMERA VIDEO INPUTS AND FIVE AUDIO INPUT SOURCES. THE REMOVABLE SD MEDIA CAN HOLD 500 HOURS. THE DIALER ALLOWS FOR EASY "GROUP" SELECTION AND THE ABILITY TO DIRECT DIAL STANDARD TELEPHONE NUMBERS. USB FLASH MEMORY CONTAINS THE ENTIRE AIRCRAFT AND SYSTEM CONFIGURATIONS FOR QUICK SET UP OF THE DEVICE. INTUITIVE CONTROLS AND DISPLAYS ALLOW THE PILOT TO EASILY SELECT TALK GROUPS, CHECK THE STATUS OF

ALL THE IRIS SYSTEM FUNCTIONS AND MAINTAIN RADIO CONTACT WITH ALL COMPANY AIRCRAFT AND OPERATIONS ANYWHERE ON THE GLOBE.

EQUIPPED WITH AN ON-BOARD SELF-TEST OF THE ENTIRE IRIS SYSTEM, THE EASILY READABLE DISPLAY PROVIDES STATUS INDICATORS FOR ALL RECORDING AND COMMUNICATIONS SYSTEMS. THE UNIT USES AN INTERNAL CLOCK THAT ALLOWS FOR CONTINUOUS DATE AND TIME STAMPS FROM AIRCRAFT POWER UP TO POWER DOWN AND SYNCHRONIZES ALL VOICE AND VIDEO RECORDING WITH THE AIRCRAFT DATA.

DIMENSIONS	5.75" W X 4.936" D X 1.835" H
POWER	11V-35V DC
WEIGHT	32 OUNCES
OPERATING TEMP	-40° TO 70°C
STORAGE TEMP	-40° TO 85°C
RELATIVE HUMIDITY	10% - 90% NON-COND
AUDIO MEMORY	MIN 6+ HR CONTINUOUS LOOP
VIDEO MEMORY	MIN 8-HR CONTINUOUS LOOP
PLAYBACK REQUIREMENTS:	
OPERATING SYSTEM	MICROSOFT WINDOWS XP OR LATER WITH WINDOWS MEDIA PLAYER 11 OR HIGHER
PROCESSOR	PENTIUM 1GHZ OR HIGHER

IRIS EQUIPMENT

CONTROL HEAD

SEE IT, HEAR IT, ANALYZE IT.



THE IRIS DATA COMMUNICATION PROCESSOR AND FLIGHT DATA ACQUISITION UNIT ARE COMBINED IN A SINGLE ENCLOSURE. THE SYSTEM IS HIGHLY FLEXIBLE AND PROVISIONED WITH EXTENSIVE AIRCRAFT ENGINE AND AIRFRAME DATA INPUTS FOR CAPTURING DATA FROM BOTH ANALOG AND DIGITAL AIRCRAFT. IN ADDITION, THE SYSTEM USES STATE-OF-THE-ART, INTERNAL, ALTITUDE AND HEADING REFERENCE SYSTEM, AND ACCELEROMETERS TO TRACK 3D MOVEMENT, AND G FORCES, INDEPENDENT OF AIRCRAFT DATA SOURCES. THE SYSTEM IS PROVISIONED WITH A BATTERY

BACK UP WHICH ALLOWS THE RECORDING OF INTERNALLY GENERATED DATA TO CONTINUE DURING AN AIRCRAFT POWER FAILURE. THE LIVE DATA LINK MAKES ALL DATA AVAILABLE FOR SELECTIVE REVIEW BY GROUND PERSONNEL WHILE THE AIRCRAFT IS IN FLIGHT.

THE DATA LINK TO GROUND ALLOWS FOR 2 REDUNDANT, FULLY INDEPENDENT SATELLITE NETWORKS. ALL RECORDED AND STREAMED DATA IS PROTECTED WITH MILITARY GRADE 256 BIT ENCRYPTION.

DIMENSIONS W/ MOUNT	7.86" W X 7.09" L X 2.25" H
POWER	12V-36V DC
WEIGHT	2.6 LBS (1.18 KG)
OPERATING TEMPERATURE	-20°C TO 55°C
STORAGE TEMPERATURE	-55°C TO 85°C
RELATIVE HUMIDITY	10% TO 95% NON-CONDENSING
OPERATIONAL SHOCK	6G, 11MS
MEMORY	64GB SSD

DATA SOURCES:

INTERNAL	GYROS FOR PITCH, ROLL AND YAW, ACCELEROMETERS FOR 3-D G FORCES, INTERNAL CLOCK
EXTERNAL	MULTI FREQ COUNTERS 5-EA ARINC 429 GPS 1-EA ARINC 717 28 DIGITAL 1-EA RS 485 40 ANALOG 3-EA RS 232 MULTI TACH GEN 1-EA ARINC 717

IRIS EQUIPMENT

PROCESSOR



THE HIGH RESOLUTION, HIGH DEFINITION INTERNET PROTOCOL COLOR CAMERA HAS BEEN CERTIFIED FOR USE WITH THE OUTERLINK IRIS SYSTEM. THE SYSTEM CAN ACCEPT UP TO THREE CAMERAS AND THE VIDEO STREAM IS RECORDED AT 30 FRAMES PER SECOND TO GIVE USERS A DETAILED REVIEW. THE HIGH RESOLUTION 1080P CAMERA(S) PROVIDES DETAILED DIGITAL IMAGES THAT ARE ALSO FULLY PROTECTED BY A MILITARY GRADE 256 BIT ENCRYPTION.

IN ADDITION TO THE INDIVIDUAL CREW AUDIO RECORDING, THE IRIS SYSTEM INCLUDES AN AREA MICROPHONE TO PICK UP ALL EXTERNAL AUDIO. THE SMALL, LIGHTWEIGHT MICROPHONE HAS BEEN DO-160 TESTED AND MEETS THE INTERNATIONALLY RECOGNIZED ENVIRONMENTAL STANDARDS.

IRIS EQUIPMENT

VOICE AND VIDEO

SEE IT, HEAR IT, ANALYZE IT.



THE IRIS ANTENNA CONTAINS TWO PHASED ARRAY ANTENNAS THAT TRACK THE SATELLITE AND FOCUS ALL THE ENERGY TO MAINTAIN THE CONSTANT IP CONNECTION. THE DAYS OF "SEND AND FORGET PACKET DATA" ARE GONE. THE CONSTANT IP CONNECTIVITY ALLOWS FOR SEAMLESS PUSH-TO-TALK (PTT) VOIP RADIO WITH YOUR ENTIRE GLOBAL FLEET AND LIGHTNING SPEED BI-DIRECTIONAL DATA COMMUNICATIONS.

IRIS EQUIPMENT

ANTENNA



IRIS CONTAINS A POWERFUL COMPUTING PLATFORM THAT CAN READ, ANALYZE AND OUTPUT CUSTOMER DEFINED OPERATIONAL AND MAINTENANCE EVENT ALERTS. THE S.M.A.R.T. APPLICATION RUNS ON THE IRIS PLATFORM AND CONSTANTLY MONITORS ALL DATA BEING RECORDED. CUSTOMERS CAN DEFINE UP TO 10 EVENTS AND USE UP TO 10 PARAMETERS/CONDITIONS TO DEFINE EACH OF THOSE EVENTS. WHEN A DEFINED EVENT HAS OCCURRED, THE SYSTEM WILL MARK THE EVENT ON THE RECORDER AND SEND MESSAGES OVER THE SATCOM CONNECTION AS A TEXT OR EMAIL MESSAGE. CUSTOMERS CAN DEFINE MESSAGE ROUTING AND PRIORITY TO A PRE-DESIGNATED PHONE OR EMAIL.

IRIS EQUIPMENT

S.M.A.R.T

SEE IT, HEAR IT, ANALYZE IT.



IRIS HAS A COMPREHENSIVE SUITE OF SOFTWARE TO PLAYBACK AND ANALYZE THE RECORDED DATA. THE FLIGHT ANALYSIS SAFETY TREND AND REPORTING SYSTEM (FASTARS) SOFTWARE SUPPLIES VOICE AND VIDEO PLAYBACK TOOLS ALONG WITH MODULES TO CREATE FLIGHT AND MAINTENANCE OPERATIONAL QUALITY ASSURANCE (FOQA/MOQA) EVENTS, ANIMATIONS AND SECURE DOWNLOAD TOOLS CUSTOMIZABLE BY THE CUSTOMER.

THE FASTARS SOFTWARE LETS YOU EASILY IDENTIFY OPERATIONAL EVENTS, THEIR SEVERITY AND TRENDS AMONG YOUR ENTIRE FLEET.

IRIS CAN INTEGRATE WITH A NUMBER OF FLIGHT OPERATIONS AND QUALITY ASSURANCE (FOQA) APPLICATIONS. AS PART OF THE FASTARS SOFTWARE APPLICATION, A RAW DATA PLAYBACK VIEWER IS INCLUDED ALONG WITH A TRANSLATION PROGRAM THAT ALLOWS THE USER TO CONVERT THE RECORDED DATA INTO DATA READABLE BY FOQA SOFTWARE. THIS PROVIDES CUSTOMERS A COMPREHENSIVE SUITE OF TOOLS AND SERVICES TO MANAGE THEIR SAFETY PROGRAM. AN ANIMATION MODULE LETS CUSTOMERS CREATE A 3D ANIMATION OF THEIR MODEL AIRCRAFT.

IRIS EQUIPMENT

FASTARS

OUT WITH THE OLD. IN WITH THE NEW.

IRIS WILL SAVE YOU TIME, MONEY AND USEFUL WEIGHT ON YOUR AIRCRAFT. STOP THE GUESSING GAME AND KNOW EXACTLY HOW YOUR AIRCRAFT IS BEING OPERATED AND MAINTAINED WITH THE MOST COMPREHENSIVE FLIGHT DATA MONITORING, TRACKING AND COMMUNICATIONS SYSTEM AVAILABLE.



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The IRIS Flight Data Monitoring and Communication System is covered by US Patent Nos. 9,563,580 and 10,255,214 and US patents pending and by Canadian Patent Application No. 2,897,764. Outerlink® and IRIS® are registered trademarks of Outerlink Corporation.

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