IRKUT MC-21 PROGRAM AND HONEYWELL

Honeywell System Suite for IRKUT MC-21 Program

**AUXILIARY POWER SYSTEM**

- HGT750[MC]

**APU ENGINE**

- 25% LOWER EMISSIONS

**CABIN**

- Maximum two class configuration range: 6,000 KM (3,200 NMI)

**CABIN PRESSURE CONTROL SYSTEM (CPCS)**

- Dual controller and outflow valve.

**AIR MANAGEMENT SYSTEM (AMS) COMPONENTS**

- Engine bleed valves
- Pack valves
- Pack components (air cycle machine, heat exchanger cores, ozone converter)

**AMS**

**SATCOM**

- Cockpit connected to ATC

Satcom keeps the cockpit connected to Air Traffic Control, providing both voice and CPDLC communications including HD-710 with AMT-3800 antenna.

**COCKPIT CONNECTED TO ATC SATCOM**

**NAVIGATION RECEIVER**

- The latest in radio navigation capability integrates instrument landing systems (ILS), global positioning systems (GPS), GPS landing system (GLS) and VHF omnidirectional radio range (VOR) functionality into a single receiver.

**SMART**

- SmartRunway® & SmartLanding®

- Traffic Alert & Collision Avoidance Systems (TCAS) is designed to reduce mid-air collisions between aircraft by monitoring the airspace around an aircraft for other aircraft equipped with compliant transponders.

**AVIONICS**

- RDR4000

IntuVue RDR4000 3D weather radar provides advanced weather detection and hazard warning for hail, lightning, windshear and turbulence.

**NAVIGATION RECEIVER**

- SmartRunway® & SmartLanding® are cost effective software upgrades to the Honeywell EGPSWS that increase flight crew situational awareness during taxi, take-off and landing decreasing the risk of runway incursions and excursions.

**WEATHER RADAR**

- RDR4000

**AIR MANAGEMENT SYSTEM COMPONENTS**

- Engine bleed valves
- Pack valves
- Pack components (air cycle machine, heat exchanger cores, ozone converter)

**CPCS AND AMS**

**SMARTWEATHER**

- 3D

**WEATHER RADAR**

- Radar Altimeter ALA-52B

- Traffic Alert & Collision Avoidance Systems (TCAS) is designed to reduce mid-air collisions between aircraft by monitoring the airspace around an aircraft for other aircraft equipped with compliant transponders.

**SMART**

- 163 PASSENGERS

163 passengers in standard two class configuration.

**CABIN**

- 163 PASSENGERS

163 passengers in standard two class configuration.

**163 PASSENGERS**

- Larger personal space
- More carry-on luggage
- More light
- Bigger aisle

**BUSINESS CLASS**

- 16 seats with pitch 36"

**ECONOMY CLASS**

- 147 seats with pitch 32"

**MAXIMUM TWO CLASS CONFIGURATION RANGE**

- 6,000 KM (3,200 NMI)

**AVIONICS**

- ADF DFA-75B

- VOR/ILS LOCALIZER/GUIDERSLOPE/Marker/GPS ANTENNAS/GASKETS

- DME TRANSCEIVER DMA-37B

- INERTIAL REFERENCE UNIT (IRU)

- ATC TRANSPONDER TRA-100B

- LASERBEAM VI

- RADAR ALTIMETER ALA-52B

- TCAS

**WEATHER RADAR**

- Traffic Alert & Collision Avoidance Systems (TCAS) is designed to reduce mid-air collisions between aircraft by monitoring the airspace around an aircraft for other aircraft equipped with compliant transponders.

**AVIONICS**

- All estimates on performance and operational benefits relating to Honeywell products provided within this document are based on Honeywell data.

**CABIN**

- 163 passengers in standard two class configuration.

**163 PASSENGERS**

- Larger personal space
- More carry-on luggage
- More light
- Bigger aisle

**MAXIMUM TWO CLASS CONFIGURATION RANGE**

- 6,000 KM (3,200 NMI)

- Business Class: 16 seats with pitch 36"
- Economy Class: 147 seats with pitch 32"

**CABIN**

- biggest fuselage in single aisle aircraft

**BIGGEST FUSELAGE IN SINGLE AISLE AIRCRAFT**

- larger personal space
- more carry-on luggage
- more light
- bigger aisle

**AUXILIARY POWER SYSTEM COMPONENTS**

- Starter Generator
- Electronic Control Unit (ECU)
- Starter Generator Control Unit (SGCU) and Start Power Unit (SPU)

**AUXILIARY POWER SYSTEM**

- Starter Generator
- Electronic Control Unit (ECU)
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