



Simulated installation, actual installation could vary



**ICDS**

## *Integrated Cockpit Display System*

- Mitsubishi MU-2



**Sagem Avionics**  
SAFRAN Group

# SAGEM ICDS

## Mitsubishi MU-2 Glass Cockpit The Ultimate Fully Integrated Cockpit

### ICDS PFD & MFD

#### with Moving Maps & Engines

In the original MU-2 instrument panel configurations, the MU-2 uses traditional analog primary flight instruments. With an FAA approved modification, this aircraft can be retrofitted with the Sagem Avionics Integrated Cockpit Display System (ICDS). Primary and multifunction flight displays present flight data on integrated cockpit display systems—reducing the clutter of conventional cockpit designs, as well as increasing efficiency of operations and improving flight safety.

Dual 8.4 inch Sagem Avionics Primary Flight Display (PFD) units provide all of the flight information necessary to operate the aircraft in VFR and IFR flight conditions, including attitude, altitude, airspeed, and compass data. Optional interfaces to existing or new aircraft systems allow display of engine information and/or navigation data such as GPS, VOR, LOC, ILS, and Marker Beacon signals.

The center mounted 10.4 inch Sagem Avionics Multi-Function Display (MFD) unit provides necessary engine information as well as a scalable moving map with informational overlays. The moving map also features the aircraft's position and navigation data, which is supplied by on-board GPS receivers. The MFD also supports the traffic advisory information and digital radar display

The modification also provides the use of the existing right-side conventional instruments as back-ups for reversionary failure mode and verification of reliable primary data.



Integration of the MU-2 fully integrated cockpit is to be worked with the support of Turbine Aircraft Services (TAS), who is a contractor to Mitsubishi Heavy Industries America (MHIA) and who also has exceptional MU-2 aircraft expertise. If you are interested in this STC for your aircraft, call TAS at 972-248-3108 X210, or call Sagem Avionics, Inc. toll free at 1-800-585-8106 (or see below for information).

## SAGEM ICDS

### ICDS-8 Flight Display

Flat-panel Active Matrix Liquid Crystal Display (AMLCD)

#### Physical Specifications:

Width: 8.88" / 225.5mm  
Height: 6.31" / 161.3mm  
Length: 2.75" / 89.2mm  
Weight: 4.20 lb / 1.90 kg  
View Area: 8.4" / 213mm diagonal viewing area

#### TSOs:

C113, C47, C44b, C43c Class IIIa, C2d Type C, C8d Type C, C10b Type II

#### RTCA:

DO-160D Change 1, 2, & 3  
DO-178B Level B

#### Environmental Qualification:

[F1]BAB[RG]XXXXXXXX[A]B[A]A[B]ZYM[XXE3]XXA



ICDS-8 Landscape PFD Mode

### ICDS-10 Flight Display

Flat-panel Active Matrix Liquid Crystal Display (AMLCD)

#### Physical Specifications:

Width: 8.21" / 209.6mm  
Height: 11.12" / 282.6mm  
Length: 3.12" / 79.3mm  
Weight: 6.26 lb / 2.84kg  
View Area: 10.4" / 254mm diagonal viewing area

#### TSOs:

C113, C47, C44b, C43c Class IIIa, C2d Type C, C8d Type C, C10b Type II

#### RTCA:

DO-160D Change 1, 2, & 3  
DO-178B Level B

#### Environmental Qualification:

[F1]BAB[RG]XXXXXXXX[A]B[A]A[B]ZYM[XXE3]XXA



ICDS-10 Portrait Map / Engine Composite mode

### PF35 Air and Navigation Data Acquisition Unit

#### TSOs:

C113, C2d Type B, C8d Type B, C10b Type II

#### RTCA:

DO-160D Change 1, 2, & 3  
DO-178B Level B

#### Environmental Qualification:

[F2]BAB[RG]XXXXXXXX[A]B[A]A[B]ZYL[XXE2]XXA

### EMM-35H Engine Monitoring Module

#### TSOs:

C113, C47, C44b, C43c Class IIIa

#### RTCA:

DO-160D Change 1, 2, & 3  
DO-178B Level B

Prior installation under STC SA 02165AK

#### Environmental Qualification:

[C1]BAB[RG]XXXXXXXX[A]B[A]A[B]ZTL[XXE3]XXA

### SIU - Sensor Interface Unit

#### PMA, STC RTCA:

DO-160D Change 1, 2, & 3;

#### Environmental Qualification:

[F2]BAB[RG]XXXXXXXXZA[ZTM][XXE3]XXA

### AHRS Sensor

#### TSOs:

C4c, C6d  
DO-160D

#### Environmental Qualification:

C4BBB[(SM)(U)XWXXXXZBABCWAM3G33XA

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