

October 12 2020

Iowa Department of Administrative Services
On behalf of Iowa Department of Public Safety
1305 E. Walnut St.
Des Moines, IA 50319

Attention: Randy Worstell, Issuing Officer

Subject: A101220 ISD Proposal for Iowa State Patrol SR-22 Aircraft

Reference: RFB0921005001, Including Amendments 1 and 2

Dear Mr. Worstell,

Please find this proposal for the delivery of a Cirrus SR22 Perception aircraft with requested options, as well as a law enforcement suite of mission equipment.

The Cirrus SR22 Perception will allow the Iowa State Patrol to respond faster, stay on scene longer and conduct more effective surveillance than other aircraft solutions. The addition of flight into know icing and air conditioning make the aircraft a comfortable year-round mission capable asset. Perception's 1324lbs useful load allows the aircraft to carry surveillance mission equipment, pilot, TFO and full fuel resulting in a 775 NM range or over 6.5 hours of loiter time.

ISD and Cirrus Aircraft are proposing the 2021 SR22 Perception single-engine aircraft with related mission equipment and support services for the Iowa State Patrol. The aircraft delivery lead time is 10 months after order, and the equipment installation is approximately two months after delivery to ISD's hangar in Aurora, Oregon. Following completion, ISD will ferry the aircraft to Iowa for acceptance.



The Perception SR22 features numerous safety features unique to the aircraft. The durable airframe and systems are designed to provide maximum protection to occupants in all flight modes and in emergency situations. Cirrus aircraft is the only manufacturer that includes a parachute as standard equipment. The SR22 features gentle handling characteristics that provide a safe and stable platform for law enforcement operations.

We look forward to a long-term partnership with Iowa that can extend beyond the simple purchase of aircraft and mission equipment. We are excited about the opportunity to work with you as you integrate the Perception into your agency and continue to protect and serve the people of Iowa.

We are offering the SR22 with a number of options for the State of Iowa to choose at time of award, including air conditioning, de-ice and other Cirrus packages.

The proposal includes the listed specialized mission equipment to provide a turnkey law enforcement aircraft.

- L3WESCAM MX-10
- Technisonic TDFM9100 (for Iowa State Patrol frequencies)
- Aerocomputers UC6000, or Rapid Imaging's Landform, or Churchill ARS700 Mapping System with Augmented Reality
- Vislink downlink and ground receiver equipment
- Rear seat TFO station (with option for laptop)



CIRRUS
A I R C R A F T

MISSION EQUIPMENT AND INTEGRATION BY ISD

Mission Sensor

WESCAM MX-10 EO/IR

- Thermal imager – SD 640 x 512 pixel, continuous zoom
- Daylight imager – HD 1920 x 1080 pixel, continuous zoom
- Electro Optic Narrow (EON) Day TV Camera / Spotter
- Lowlight imager – EMCCD 640 x 480 pixel
- Auto Video Tracker (AVT)
- Image Fusion Feature

Mapping System

Aerocomputers UC6000 with ARS



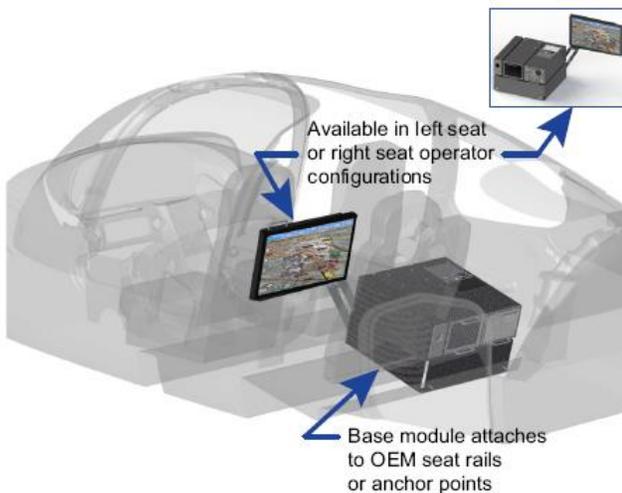
All work proposed for this project assumes that design and installation work is performed in accordance with AC 43.13-2B for aircraft alternations.

The mission equipment and layout in the aircraft takes advantage of the size and comfort of the aircraft. The Technisonic radio and other audio equipment are positioned between the pilot and copilot seat to allow easy access to the controls by any of the occupants in the aircraft. Audio panels are also located in that panel as shown in the images below.



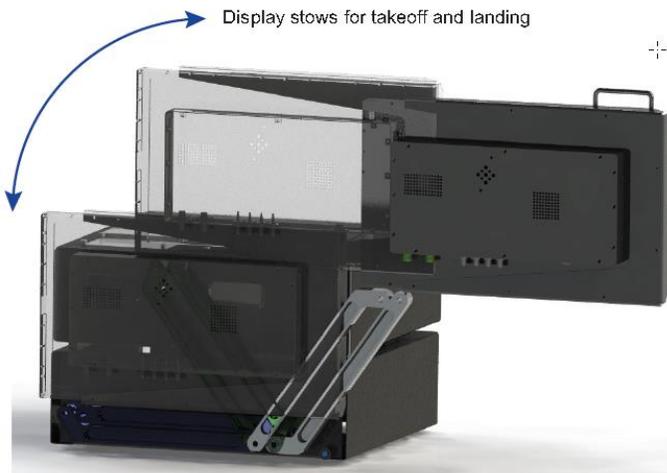
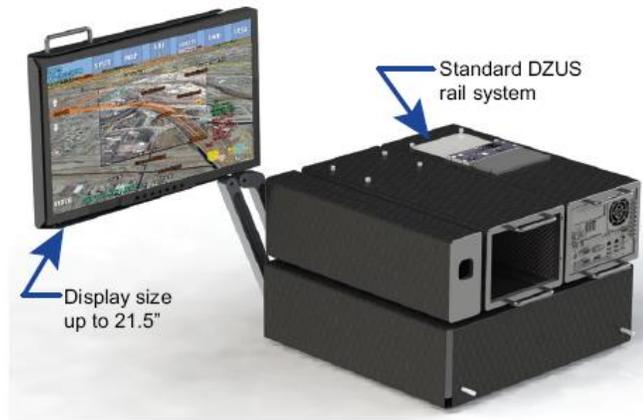
The figures above are two views of the ISD-designed Cirrus console between the pilot and copilot seats.

The MX-10 and Augmented Reality Map system controls will be located in the Tactical Flight Officer station in the aft cabin. ISD's proposal is to provide a modular console that is easily removed or installed in 10 minutes.



- Compatible with a variety of imaging equipment
- Cirrus SR-22 STC coming soon
- Other platform STCs available - contact ISD

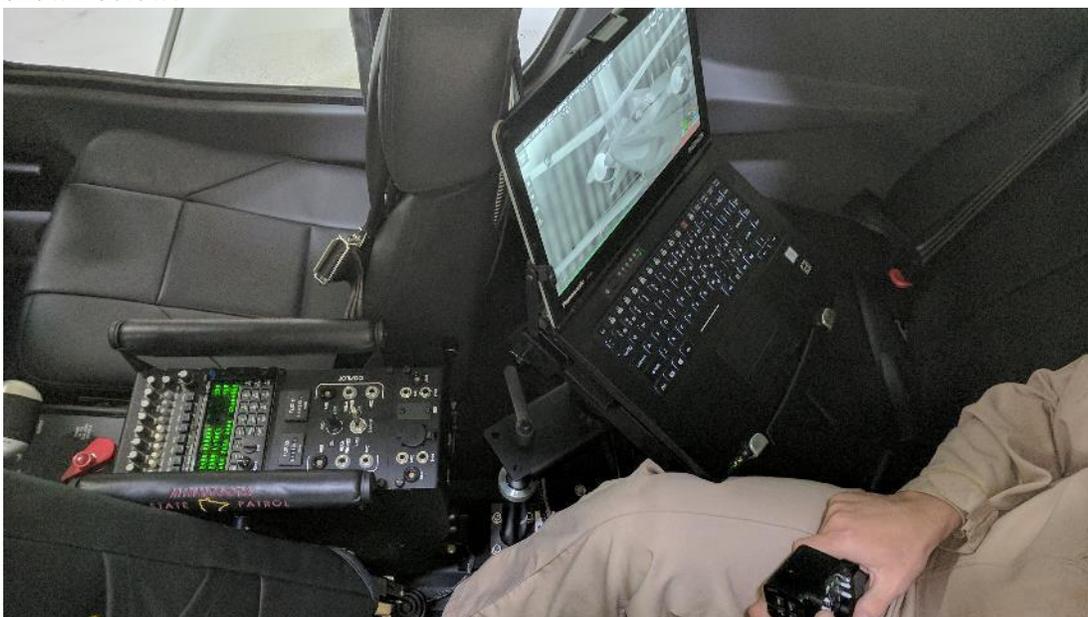
- Modular carbon fiber construction
- Entire system including display < 36 lb
- 5-minute installation or removal



ISD's TFO console is lightweight and efficient. It provides the TFO a large 21.5" touchscreen display to work with, offering excellent resolution of MX-10 and ARS imagery. For safety, the TFO screen is stowed during takeoff and landing.

The console is designed to be installed and removed in a matter of minutes. This permits the air unit to transition from airborne patrol to transport mission very quickly. A keyboard will be provided for the operator's use.

An alternative TFO option is a laptop computer dock in the rear cabin. This option allows the TFO to carry-on the laptop and install on the computer pedestal prior to the mission. The installed laptop us shown below.





ISD is offering the three Augmented Reality Systems mission map systems described in the RFB. ISD has experience with all of them and would recommend whichever ARS the Iowa State Patrol prefers.

ISD Warranty: 12 months parts and labor from date of flight test completion and acceptance by the Iowa State Patrol. Does not cover damage incurred through misuse, abuse, breakage, installation/operation procedures not being followed.

All pricing is included in the response form provided in the RFB.

ISD will offer a trade-in credit on the three aircraft surveyed on October 6 2020. The aircraft prices we presented in our bid for N9539L, N259GF, and N370ES are subject to the aircraft being in the condition that we inspected them on 10/6/2020. Normal wear and tear is expected; however, if these aircraft would happen to sustain damage or become unairworthy then we would need to adjust the price accordingly. Our prices they will be available for pick-up on or before January 15 2021.

Thank you for the opportunity to participate on this program. If there are any questions, please do not hesitate to ask.

Respectfully,

A handwritten signature in black ink, appearing to read "Blaise Dagilaitis", with a long horizontal flourish extending to the right.

Blaise Dagilaitis, President
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