



66 -- UAV-CAPABLE COASTAL HYPERSPECTRAL IMAGER

- [Combine Synopsis/Solicitation](#) - Posted on Mar 06, 2007
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Description

The purpose of this amendment is to respond to technical questions submitted against RFP Number N00173-07-R-RS02.

Question 1: In Table 1 of the Attachment, the Dimension cells in the Total Package row are empty. Was this information accidentally left out? Answer 1: The cells referenced in Question 1 should read NA. The Government's intent is that the total airborne package be comprised of the four individual units listed on the table. To allow maximum flexibility in placement of the total package components, each unit may be spread over the UAV and connected by cables as needed for data communications and power, or packed together as needed for integration. As noted in paragraph 2 of Section 4 of the specification, the functions of two or more individual units may be combined into a single unit, as well.

Question 2: Does a Ground Sample Distance (GSD) of 2 m from 1000 m above ground imply that the Instantaneous Field of View (IFOV) is 2 mr? Answer 2: Yes. Also, the platform should move only one GSD between the start of integration for sequential frames.

Question 3: What tolerances can be applied to the GSD/IFOV? 10%?

Answer 3: The IFOV may be smaller than 2 mr x 2 mr as long as the full cross-track swath is at least equal to 800 meters (i.e. 2 meters x 400 pixels = 800 meters). This may be achieved with a smaller IFOV (GSD) and a larger number of pixels. The IFOV can be greater than 2 mr by no more than 10%.

Question 4: Dimensional constraints: Is each subsystem meant to be individually packaged within the dimensions given for it and then integrated into the UAV in individual locations that are not within some single cuboid? Answer 4: See Answer 1, above

Question 5: Are you able to indicate the relative positioning of each subsystem relative to all the others? There are dimensions 1, 2, and 3 What is the orientation of each of these relative to the airframe? It probably doesn't matter for the Controller and transceiver, but may impact imager design and, perhaps to a lesser extent, on the choice of GPS/IMU.

Answer 5: As noted in Question 2 to Amendment 1 of this solicitation, the Navy has not determined which UAV platform will be used with this system, and is relying on the Offeror to identify the UAV platform or platforms that are functionally and operationally compatible with their proposed system. Given this, the relative positioning of each subsystem, and the orientation with respect to the airframe, is at the discretion of the Offeror. The dimensional constraints were chosen so that the Offeror has considerable latitude in their design, while maintaining the Government's ability to integrate the system onto several platforms. While not mandatory, the Government prefers that the along track be the same as Dimension 1 for the imager, and there is no preference for the other two dimensions. Also, while not mandatory, the Government would prefer that subsystems could integrate using COTS cabling that would ease maintenance and replacement efforts for integration to the platform.

Question 6: Imaging time: Is the 15 minute total time just for a single continuous image of which there might be several per flight, or is that the total imaging time per flight?

Answer 6: The proposed system shall be capable of capturing and storing a single continuous image for at least 15 minutes. There may be several images captures for each flight, and each may be as long as 15 minutes. The total imaging time per flight is one hour, as stated in the specification.

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