Observation Description:

The Shadow 200 utilizes a Plug-in Optronic Payload (POP 200) with two EO/IR sensors.

Sensor #1 – Electrical Optical:
Type: InSb, 320 x 240 IR Charge-Coupled Device (CCD) array
Resolution: 470 TV lines
Fields of View: 3 Steps
Wide 22 degrees Horizontal x 16.5 degrees Vertical
Medium 6.9 degrees Horizontal x 5.2 degrees Vertical
Narrow 1.72 degrees Horizontal x 1.29 degrees Vertical
Super Narrow 0.85 degrees Horizontal x 0.65 degrees Vertical
Sensor #2 - Infrared:
Camera Type: InSb, 320 x 240 IR Charge-Coupled Device (CCD) array
Resolution: 470 TV lines
Fields of View: 3 Steps
Wide 22 degrees Horizontal x 16.5 degrees Vertical
Medium 6.9 degrees Horizontal x 5.2 degrees Vertical
Narrow 1.72 degrees Horizontal x 1.29 degrees Vertical
Super Narrow 0.85 degrees Horizontal x 0.65 degrees Vertical
The POP 200 camera has focus and zoom. Video can be displayed on a dedicated LCD screen at the operator station or as an inset on the control monitor. Pilot can have pilot camera video displayed while sensor operator has sensor ball imagery displayed. Cameras and displays have a high reliability rate.
Assigned visual observers will be located on Camp Shelby to observe entering and exiting transition route and TALS Approach. At no time will the UA be more than one mile laterally or 3,000 feet vertically from an assigned ground observer. Mission Commanders shall ensure reliable UHF or VHF communication is established between the AO and the ground observers prior to launch. The AO shall remain in contact with the ground observers for the duration of the mission.