

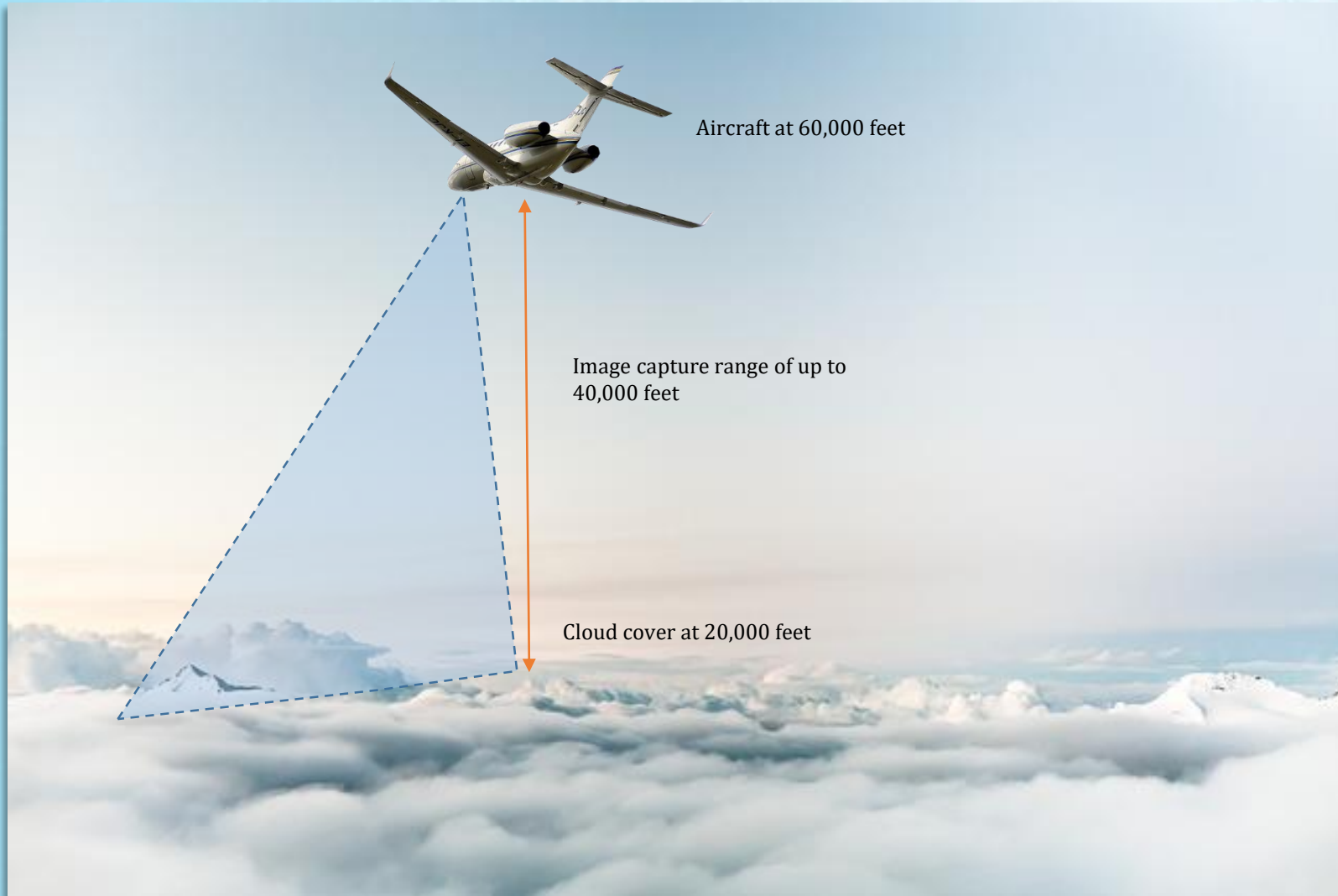
Persistent Surveillance: Flight Visibility

Aircraft pilots need to view the extent of cloud cover during flight. The aircraft flies at the height 60,000 feet and must be able to view cloud cover at 20,000 feet.

Solution:

An imaging system composed of a ruggedized GigE camera in environmental enclosure housing, an embedded computer system, and recorder are used to survey the cloud cover below the aircraft.

The camera is rugged and the housing allows it to withstand harsh temperatures and altitude. The imaging system is able to capture video at a range of up to 40,000 feet. The pilot is able to monitor the surroundings below easily through a monitor.



Rugged, GigE Camera



DVR Recorder



Embedded Computer



Environmental Enclosure Housing

