



Nomad Program Overview



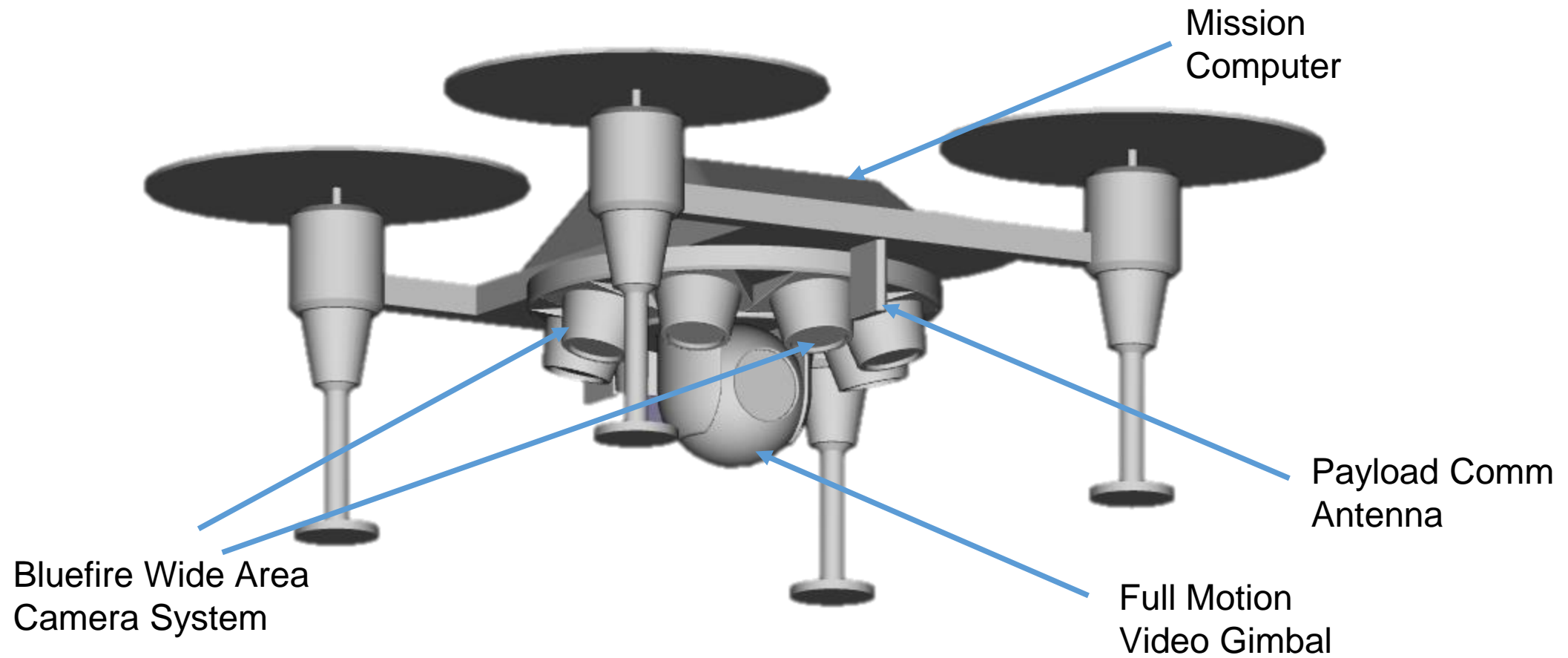


Overview

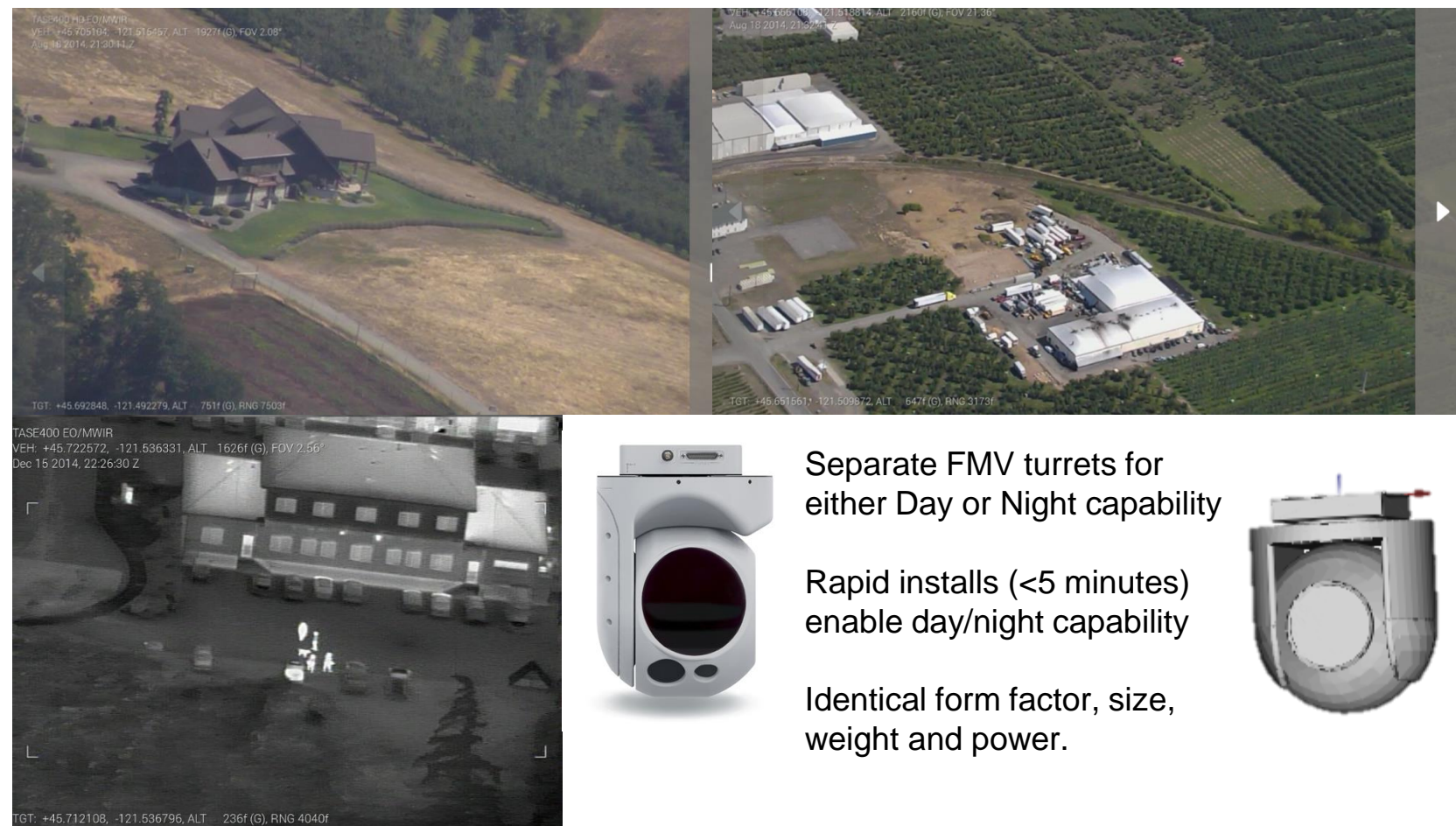


- Full Motion Video
 - Imaging System
 - Gimbal
 - Data Output
- Wide Area Camera
 - Cameras
 - Control Capability
- Communications

Overview



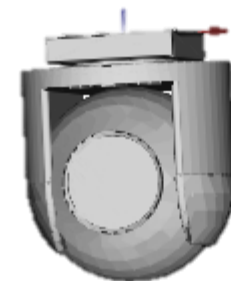
For Instructional Use Only



Separate FMV turrets for either Day or Night capability

Rapid installs (<5 minutes) enable day/night capability

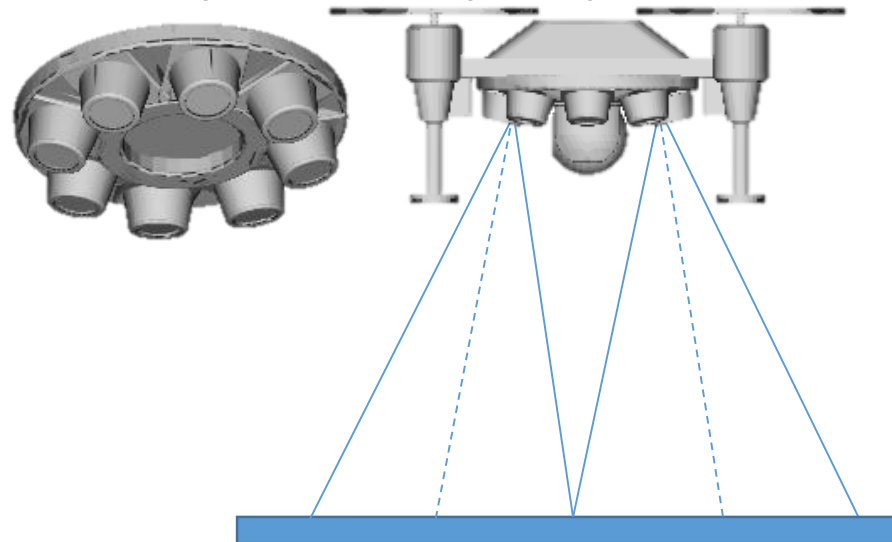
Identical form factor, size, weight and power.



Size	6 in dia
Weight	9 lbs
Pointing Accuracy	1.5 deg
Video Format	h.264
Video Metadata	MISB Compliant KLV Metadata
EO	
GSD (200m Slant Range)	0.10 m
GSD (1000m Slant Range)	0.45 m
Frame Rate	30 fps
MWIR	
GSD (200m Slant Range)	0.50 m
GSD (1000m Slant Range)	0.80 m
Frame Rate	28 fps

Bluefire Wide Area Camera

4 images are taken simultaneously and sent to the ground station, where they are stitched together into a single image



- Can operate in either manual or automatic mode
- Automatic mode sends images down constantly beneath the vehicle – used for overwatch or survey
- User selectable day (electro-optic) or night (low light cameras)

Weight	12 lbs
Coverage Area (200 ft AGL)	380,000 sq ft
Image Format	NITF Compliant JPEG 2000 Compressed
EO	
GSD	0.40 m
Latency	1.8 seconds
Frame Rate	2 fps
Low Light	
GSD	0.60 m
Latency	2 seconds
Frame Rate	1.5 fps

Mission Computer and Communications

- Hardened Single Board Computer
- Runs all mission processing applications
 - Health Monitoring
 - Product re-transmission
- Increased Storage Capability
 - Capable of storing 1100 wide area images, or
 - 95 minutes of video
- Sourced from US company
- Encrypted at rest



- Advanced lightweight tactical datalink
- Capable of operating in Ku, L, S and C bands
- Data rates up to 40 mb/s
- Range up to 15 nautical miles
- FIPS 140-2 Compliant Encryption



Weight	1 lb
Processor	Quad Core Intel Processor
Storage	250 GB Solid State
RAM	8 GB