



# HYBRID QUADROTOR

## FVR-55

### KEY FEATURES

- > Hybrid Quadrotor™ (HQ) Technology
- > Part 107 Compliant
- > Fully runway independent. Point takeoff and landing.
- > No launch or recovery equipment required
- > Up to 10 hour endurance depending on payload installed and Part 107 limits
- > Supports up to 10 lb (4.5 kg) payloads
- > Land or sea VTOL capability from within a confined area
- > Service ceiling of 12,000 ft MSL
- > Maximum speed of 65 knots (120 km/hr)
- > Universal mounting interface accommodates various customer payloads
- > 2 person operations team – pilot / maintainer + 1 Visual Observer as required
- > 1 hour time to deploy from box to launch
- > Small Mobile Ground Control Station (Windows Tablet or Laptop with Datalink)
- > Removable modular payload bay. Fast, swappable payload integration.

### SPECIFICATIONS

#### Functional

Endurance	Up to 10 hrs (payload dependent)
Maximum Loiter Speed	65 knots (120 km/hr)
Launch and Recovery	VTOL capable from land or boat in ≥ 20 ft x 20 ft area (6m x 6m)
Datalink	Bridged IP and RS-232
Primary Datalink Range	4 Mbps at 60 km/1 Mbps at 100 km
Primary Datalink Latency	<500 ms
Datalink Security	AES 256
Primary and Secondary Data Links	
Payload modularity via front bulkhead Universal Interface	
Payload Capacity	Up to 10 lb (4.5 kg)
Main Payload Voltage	12 VDC
Payload Power	200 W
Mechanical provision for dedicated payload GPS antenna	
Fuel Consumption Monitoring	Within 5% accuracy
No critical data stored onboard aircraft	
Loss-of-Link Capability	Autonomous return to base, loiter, and landing
Total Number of Personnel to Operate	2
Time to Deploy (Shipment to Launch)	1 hour
Pre-Flight/Post-Flight	30 minutes



Don't Compromise. It's an ethos we all live by, yet many have accepted less with no better solution available. To break this paradigm, L3Harris Technologies has demonstrated dominance through HQ, an uncompromising Hybrid Quadrotor Unmanned Aerial System (UAS). HQ is a superior solution to our customers' hardest problems, delivering runway independence, unprecedented endurance and innovative modularity for missions in austere, maritime and confined environments. With HQ, operators can be confident that dynamic mission requirements will drive platform capabilities, not the inverse. Don't compromise for anything less.

## SPECIFICATIONS

### Environmental

Altitude	12,000 feet MSL
Maximum Wind Speed for VTOL	30 kts
WMO Sea State Limit	3–4

### Physical

Size	156" W x 81" L x 13" H (4m x 2.1m x .3m)
Maximum Gross Take-Off Weight	54.9 lbs (25 kg) for Part 107 compliance
Absolute Maximum Gross Weight	63 lb (28.6 kg)

## OPTIONAL ACCESSORIES

- > Iridium for SATCOM operations
- > Differential GPS for shipboard takeoff / landing
- > Gimbaled Sensors to include EO, IR (LWIR, MWIR), LRF, LP
- > Mode S and ADS-B out Transponder
- > Selection of mesh radios
- > Pinhole Situational Awareness camera (optional)

PRELIMINARY SPECIFICATIONS — Subject to Change.

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