



# FIXED WING VTOL ROTATOR FVR-90

The Future of Vertical Lift.

### KEY FEATURES

- > Hybrid Quadrotor™ (HQ) Technology
- > Fully runway independent. Point takeoff and landing. No equipment required.
- > Proven ability to operate from land or sea
- > Universal mounting interface accommodates various customer payloads
- > 2 person operations team
- > 1 hour time to deploy from box to launch
- > Small Mobile Ground Control Station (Windows tablet or laptop with Datalink)

### OPTIONAL EQUIPMENT

- > 100+ km low latency line-of-sight FMV
- > SATCOM capable
- > AES 256 / Type 1 encryption
- > 10 lb underwing payload (5 lbs asymmetric)

### OPTIONAL WESCAM MX-8

- > Sensors: EO, IR, LRF, LP
- > MWIR 640 x 480, 2.75° to 28.4° FOV
- > CMOS 1280 x 780, 1.53° to 30.0° FOV
- > Laser Rangefinder Class 1
- > Laser Illuminator Class 3b Wavelength: 852 nm 150 mW
- > 4-axis gimbal with 6-axis internal passive isolator
- > Digital / Analog Video: HD-SDI, NTSC, PAL RS-23
- > Power: 16–32 VDC 65 W average, 180 W maximum
- > Weight: 15 lbs



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 FVR, an uncompromising Fixed Wing Vertical Takeoff and Landing (VTOL) Rotator Unmanned Aerial System (UAS). FVR 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 FVR, operators can be confident that dynamic mission requirements will drive platform capabilities, not the inverse. Don't compromise for anything less.

### SPECIFICATIONS

General Characteristics		
Length	98 in	(2.5 m)
Wingspan	185 in	(4.7 m)
Height	26 in	(0.66 m)
Empty Weight	70 lbs	(31.75 kg)
Gross Weight	120 lbs	(54.4 kg)
Max Nose Payload	22 lbs	(10 kg)
Power Plant	P4F B100i horizontally opposed 2-stroke	
Maximum Speed	65 kts	
Cruise Speed	50 kts	
Minimum Speed	38 kts	

## SPECIFICATIONS

Maximum Aircraft Range	810 nmi	(1,500 km)
Nominal Payload Datalink Range	54 nmi	(100 km)
Endurance	8–16 hrs	
Service Ceiling	18,000 ft DA	
Launch / Recovery Area	25 ft x 25 ft	(7.6 m x 7.6 m)
Maximum Obstacle Clearance	100 ft	(30.5 m)
<b>Environmental</b>		
Maximum Launch / Recover Winds	30 kts	
Maximum Crosswinds	30 kts	
Maximum Precipitation	0.25 in/hr	
Maximum Temperature	120° F	(49° C)
Minimum Temperature	-20° F	(-29° C)

### Fixed Wing VTOL Rotator — FVR-90

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L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.



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FAST. FORWARD.

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