

# VAPOR® 55 MX

TRILLIUM HD55-MVS-LD PAYLOAD

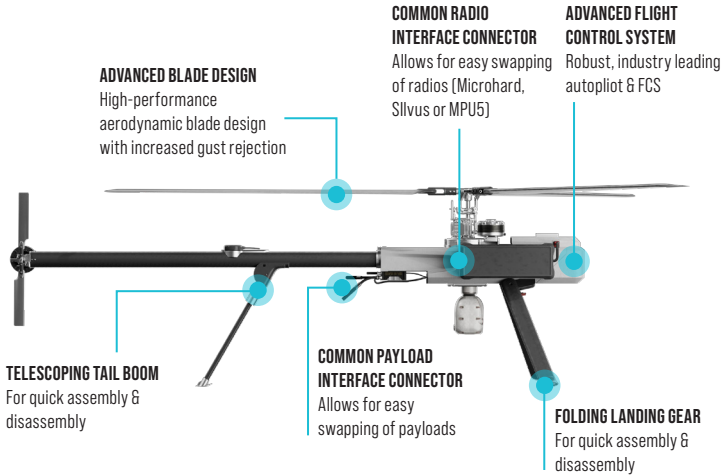


The VAPOR 55 MX is a highly versatile all-electric helicopter UAS, designed to adapt to diverse mission requirements. Its modular design supports seamless integration with advanced payloads like Trillium's HD55-MVS-LD, offering a comprehensive suite of capabilities that make it an essential tool for precision targeting and battlefield support, even in jamming-prone, contested environments.

Equipped with the HD55-MVS-LD, the VAPOR 55 MX provides high-definition electro-optical and infrared imagery, coupled with laser designation for precise target engagement. The VAPOR 55 MX empowers maneuver forces with the ability to direct laser-guided munitions and conduct real-time battle damage assessment (BDA), ensuring accurate and timely mission feedback.

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## VAPOR 55 MX SPECIFICATIONS

<b>RANGE</b>	Up to 20 miles (32 km) with Silvus & MPU5 radios
<b>GROUND SPEED LIMIT</b>	33 mph (15 m/s)
<b>DIMENSIONS</b>	Aircraft: 6 ft x 2.2 ft x 2.1 ft (1.8 m x 0.67 m x 0.64 m) Rotor Diameter: 7.5 ft (2.29 m)
<b>OPERATING ALTITUDE</b>	0-12,000 ft (3,657 m) MSL (density)
<b>ENVIRONMENTAL OPERATIONAL LIMITS</b>	Min: 0 °F (-17 °C) Max: 120 °F (49 °C)
<b>MAX WIND PEAK</b>	Sustained: 34.5 mph (30 kts)
<b>DATA LINKS</b>	900 MHz, 2.4 GHz or 5.8 GHz (Video), Silvus, Persistent Systems, MicroHard
<b>GROUND CONTROL</b>	Live GPS position, full authority control, automatic or manual flight

## KEY FEATURES

- » Sleek, modular airframe design for easy assembly & disassembly
- » Flexible core architecture—key enabler for continuous development that will allow for seamless extensions & upgrades
- » Modular radio options—seamlessly operate with a low-cost encrypted radio or swap to hardened military radio

## HD55-MVS-LD SPECIFICATIONS

<b>WEIGHT</b>	2700 g
<b>CAMERAS</b>	Visible Rolling Shutter 3x MWIR with 10x continuous zoom lens SWIR Camera
<b>FOV</b>	EO: HFoV 13.6° to 4.6° 1280x720 MWIR: HFoV 22° to 2.2° 640x512 SWIR: LD See Spot, HFoV: 5.7° 640x512
<b>LASER TARGET DESIGNATOR</b>	50 mJ STANAG compliant coded laser
<b>ONBOARD GPS/INS</b>	Accurate real-time vehicle and target location
<b>LASER RANGE FINDER</b>	3 km NATO Standard
<b>NVG-COMPATIBLE LASER POINTER</b>	850 nm laser for precise discreet pointing available

## KEY FEATURES

- » Onboard h.264/h.265 compression with adjustable bitrate
- » Field upgradable software
- » Onboard electronic stabilization
- » Onboard scene tracking
- » Object target tracking/MTI