

THE VEGA EQUATION

1-4-44

ONE
BACKPACK

FOUR
PAYLOADS

FORTY-FOUR-POUND
LIFT



VEGA.

THE TACTICAL AMERICAN-OWNED
DRONE PLATFORM

Backpack-portable. Heavy-lift.
Multi-payload. Multi-link.
Ready when soldiers are.

U.S.-owned. U.S.-engineered. Field-proven.

Real-time Robotics (RtR) is a U.S.-owned drone manufacturer and solutions provider, delivering tactical platforms with full **NDAA compliance** to meet the strictest U.S. government data security standards.

RtR is the creator of VEGA, the tactical evolution of the Hera platform, engineered for soldiers, operators, and forward teams that need more lift, more payload options, and more mission versatility from a backpack-portable airframe.

NDAA COMPLIANT

U.S. PATENTED

IN-HOUSE MANUFACTURING

RtR **innovates**.
RtR **delivers**.

A complete tactical system.

Vega combines backpack portability, four-payload capability, 44-lb heavy-lift power, and multi-link resilience in one NDAA-compliant tactical drone platform.

Compact enough to fit into one backpack, Vega enables soldiers to deploy rapidly, carry multiple EO/IR pods plus mission tools, and maintain C2 across RF, cellular, Starlink, fiber-optic, and tether links, getting more missions done in harsh field conditions with fewer sorties.

THE VEGA EQUATION

1-4-44

One Backpack

Compact enough to fit into one backpack, rapid deployment by small tactical teams.

Four Payloads

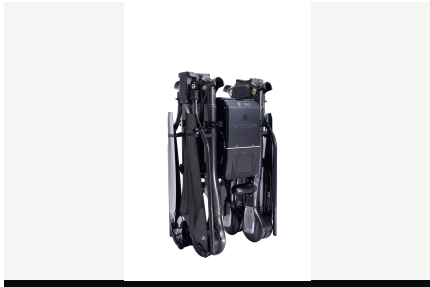
Four payloads simultaneously, EO/IR pods plus drop, spotlight, or loudspeaker.

44-lb Lift

Powerful enough to lift 44 lbs, sensors, SIGINT, jammers, resupply payloads.

Six advantages. One platform.

01-03 / 06



01

Backpack Portability

Compact enough to fit into one backpack for rapid field deployment by small tactical teams in remote, urban, or contested environments.



02

Four-Payload Capability

Spacious enough to carry four payloads simultaneously, including three EO/IR camera pods plus a drop system, spotlight, or loudspeaker.



03

44-lb Heavy-Lift Power

Lifts up to 44 lbs, soldiers gain mission options from a backpack-portable platform: sensors, SIGINT receivers, drop systems, resupply payloads.

What fits in a backpack should not lift
forty-four pounds.
VEGA does.

THE 1-4-44 DOCTRINE, IN THE FIELD.

Resilient. Flexible. Tactical-tough.

04-06 / 06



04

Multi-Link Resilience

RF-agnostic with built-in cellular, Starlink-ready, fiber-optic-ready, tether-ready, and capable of C2 to mobile devices for forward operators.



05

Universal Payload Flexibility

One-click quick release lets operators rapidly swap and operate different payloads and mission tools quickly in the field.



06

Tactical Ruggedness & Compliance

Built for harsh field conditions, operating from $-25\text{ }^{\circ}\text{C}$ to $45\text{ }^{\circ}\text{C}$, with IP54 protection and full NDAA compliance.

Built for the place **where soldiers fight**.
VEGA does not flinch.

$-25\text{ }^{\circ}\text{C}$ TO $45\text{ }^{\circ}\text{C}$ · IP54 · NDAA-COMPLIANT

One drone. Five tactical missions.

From persistent ISR to tactical resupply, VEGA replaces a fleet of single-purpose tactical drones with one configurable platform that goes where soldiers go.

01, ISR MISSION

PERSISTENT AWARENESS



ISR Mission

Carries up to four EO/IR pods, including HeraSight LR and OmniSight, for long-range, multi-axis intelligence, surveillance, and reconnaissance, delivering persistent battlefield awareness day, night, and through obscurants.

02, TARGET ACQUISITION

FIRE SUPPORT



Target Acquisition & Fire Support

Combines stabilized 240x zoom optics, thermal imaging, laser ranging, and Edge AI to detect, classify, and geolocate targets in real time, providing precise grid coordinates to forward observers and artillery.

03, EW / SIGINT

SPECTRUM INTELLIGENCE



EW / SIGINT

Lifts up to 44 lbs of mission-tailored payloads, SIGINT receivers, COMINT/DF arrays, jammers, and EMS sensors, turning Vega into an airborne node for signals collection and electronic warfare.

One platform. **Every spectrum**, every target.

ISR · TARGET ACQUISITION · SIGNALS INTELLIGENCE

Persistent watch. Tactical lifeline.

04-05 / 05

04, TETHERED

UNLIMITED OVERWATCH



Tethered Application

Operates on tethered power for unlimited-endurance overwatch of forward operating bases, checkpoints, and convoys, delivering 360° persistent surveillance with synchronized RGB and thermal coverage.

05, RESUPPLY / CASEVAC

TACTICAL LIFT



Tactical Resupply & CASEVAC

Leverages 44-lb heavy-lift power and a universal drop system to deliver ammunition, water, medical kits, and blood products to dismounted units in contested or inaccessible terrain, reducing risk to manned resupply.

When the road is closed, **VEGA is the road.**

TETHERED OVERWATCH. TACTICAL RESUPPLY. CASEVAC.

Engineered down to the gram.

SIZE	Folded (props · battery · camera): 28.8" × 14" × 14.9" (63 × 38 × 24 cm), backpackable Unfolded (props folded): 48.8" × 42.5" × 24" (124 × 108 × 61 cm)
LIFT	Takeoff (no payload): 38.4 lb (17.4 kg) · Max takeoff (with 44 lb payload): 82.4 lb (37.4 kg)
PAYLOAD MOUNTS	Four payload mounting bays
FLIGHT TIME	60 min (no payload)
LANDING GEAR	Concealed, completely hidden in storage
DEPLOYMENT	Under 1 minute
AI COMPUTE	Nvidia Jetson Xavier NX / Orin, runs sophisticated AI algorithms at the edge across four payloads simultaneously
DATA SECURITY	NDA compliance · U.S.-owned hardware and software
OBSTACLE AVOIDANCE	Front and back · effective day, night, smoke, rain, and dust
CONTROL · WIND	6.2 mi (10 km) range · 31 mph (13 m/s) wind tolerance, Force 6 Beaufort
GPS · BATTERY	RTK and PPK ready · Smart battery 50.4 V · 35 000 mAh
CAMERAS / PAYLOADS	VegaSight EO-IR (Sony FCB-ER9520 + FLIR Boson Plus) · Spotlight · Speaker · Drop System · Phase One P3 · LiDARs · Multispectral · Corona



GROUND CONTROL · HERALINK

Mission-grade ground station.

- MULTI-PAYLOAD** 6 video streams · control 6 cameras · actuate drop, spotlight, loudspeaker.
- MULTI-LINK** RF agnostic · cellular · Starlink · fiber-optic · tether · C2 to mobile devices.
- RUGGEDNESS** Unlimited operational time · 2000-nit screen · -25 to 45 °C · NDA.

THE VEGA PLATFORM



RtR innovates.
RtR delivers.

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