MEGA-CHILE

MAN PACKABLE ATTACK DRONE

AIR to AIR COUNTER UAS

&

AIR to GROUND STRIKE CAPABILITY

Double Barrel 40x46mm Grenade Launcher Fits in a Back Pack

Hondoq’s Modular Approach

Problem:

Current tactical drones lack versatility and advanced capabilities cost way too much.

I Most military drones are limited to basic ISR functions, restricting their operational utility.

II Advanced capabilities typically require expensive, specialized platforms, straining military budgets.

III Rapid capability deployment is hindered by lengthy procurement cycles, reducing tactical flexibility.

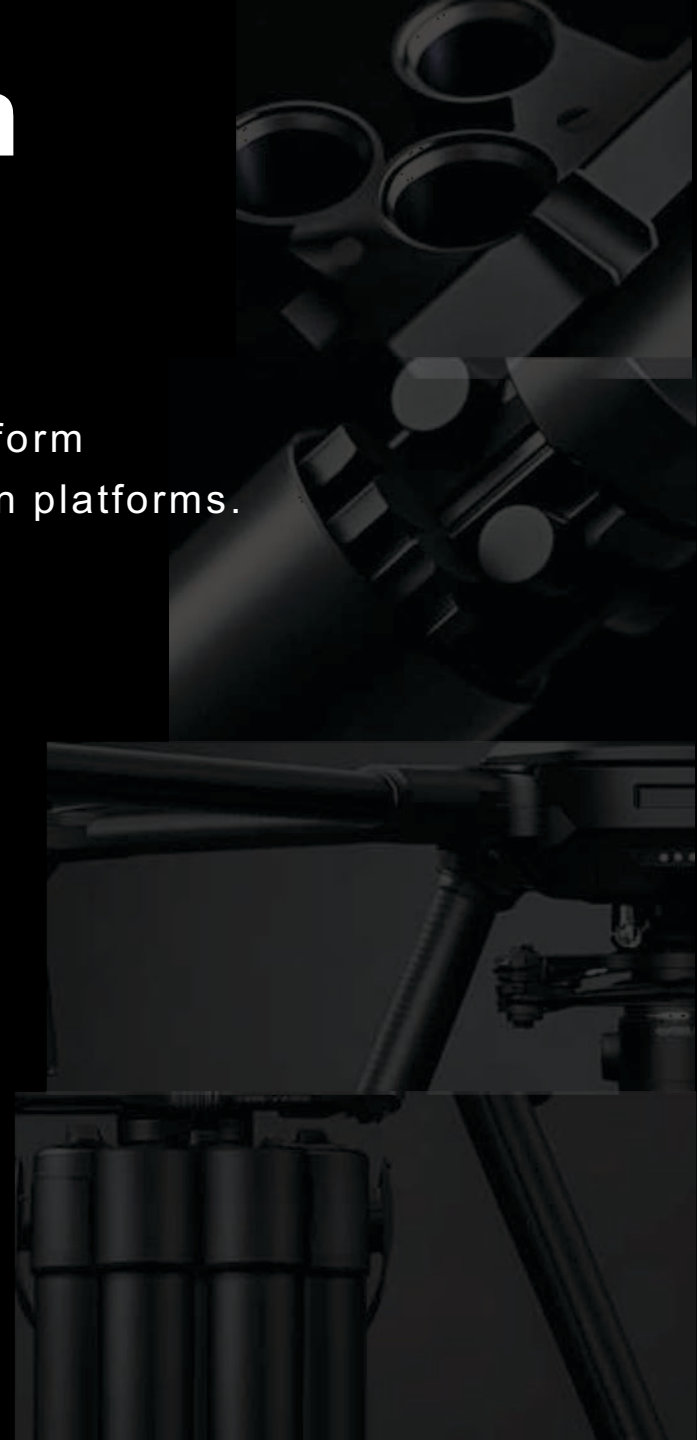
Solution:

Hondoq's modular payloads transform standard drones into multi-mission platforms.

We offer rapidly deployable kinetic and non-kinetic effect systems for various tactical scenarios.

Our technology integrates seamlessly with existing DoD inventory and COTS drones, maximizing compatibility.

Our approach significantly reduces total ownership costs and logistics footprint for military units.



MEGA-CHILE SPECS:

Parameter	Specification
Air Vehicle Weight (empty)	3.9 lbs
Max Payload Capacity	9.4 lbs (10.4 lbs demonstrated)
Max Gross Takeoff Weight	18 lbs (<55 lb requirement)
Rotor Span (rotors extended)	24 inches
Length (rotors extended)	18 inches
Configuration	'T' frame coaxial octocopter, foldable
Range	38 km
Max Endurance	1 hour (20 min with full payload)
Max Altitude	6,500 ft AGL
Cruise Speed	30 knots
Max Speed	50 knots
Battery Specification	6S 10000mAh LiPo (22.2V, 222Wh) or 6S 16000mAh Liion (21.6V, 345.6Wh)
Launch Method	VTOL - no launch equipment required
Recovery Method	VTOL controlled landing
Max Wind (Takeoff)	15 kts avg / 20 kts gust
Max Cross-Wind	25 kts
Temperature Range	Min: 27 deg F tested – Max: 130 deg F tested
IP Rating	IP55
Precipitation Limits	0.5 inches / hour
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IP Rating	IP55
Precipitation Limit	0.5 inches / hour

Current Capabilities:

- Software-driven lifecycle tracking and configuration management
- Field-modifiable code enables mission-specific customization
- Betaflight or Ardupilot firmware with configurable parameters
- ROZ/RAS KML file import for geofencing and airspace compliance
- Accelerometer indicates weapon fired
- GPS enabled pre-programmed waypoint navigation

Key Design Features:

- Foldable, man-packable design fits in Kydex sheath for rucksack transport (Dimensions when folded, with 2x 40mm Grenade Launchers attached: 8.5 inches x 12 inches x 16.5 inches)
- Reusable platform—OWA-capable but not OWA-limited
- Keeper™ SmartMount fully integrated into MegaChile UAV for immediate payload attachment
- Over 50% of components 3D printed for expeditionary field repair
- Tested to survive 50-meter drops
- Designed for man-packability, quick deployment from a rucksack, lethality, and use in GPS-denied and EW-heavy environments

CAPABILITIES

Current EO Capability:

- Resolution: 1200TVL
- Field of View: 100° HFOV (4:3 aspect ratio)
- Low-Light Sensitivity: 0.00001 lux (starlight)
- Day/Night Capability: Full day/night operations supported
- Weather Capability: Full day/night operations in low visibility (weather) with reduced range
- Video Transmission: 5.8 GHz analog FPV (5.5-6.0 GHz), real-time streaming
- Data Storage: Betaflight blackbox or ArduPilot on FC SD card (exportable as KML)
- Video system: PAL or NTSC

Current Readiness Levels:

- Technology Readiness Level (TRL): TRL 9 – Kinetic payload technology field-tested with U.S. Government units
- Manufacturing Readiness Level (MRL): MRL 8 – Pilot line capability demonstrated; ready for low-rate initial production

Historical Production and Sales:

- Andrena™ 40 and Keeper™ SmartMount fielded since 2023
- Successfully passed multiple U.S. Government live-fire test and evaluation processes
- Field-tested in the U.S. and overseas under adverse conditions
- Month-long deployment at JRTC
- 100+ test flights completed; estimated 300+ by demonstration
- Demonstrated production capability with prior DoD awards