CUSTOMIZABLE UNMANNED HELICOPTER

LX300™

NAVAL

Unmanned Helicopter for Overwater Operations
A SAFER WAY TO SUPPORT NAVAL OPERATIONS

The LX300™ Naval is an unmanned aerial vehicle – vertical take-off and landing (UAV-VTOL) dedicated to replacing manned helicopters for naval operations in critical conditions. With its tandem-rotor configuration, the unique M-BARK™ technology and its multitask capabilities, the LX300™ Naval is the best suited UAV to face naval hazardous environments and situations.

A RELIABLE CERTIFIED-CLASS HELICOPTER, WITH UNIQUE NAVAL CAPABILITIES

Helicopter operations are often limited by weather conditions. With its tandem-rotor design relatively insensitive to wind direction, the LX300™ Naval can fly close to obstacles and can safely land on a ship, even on a gusty day.

TANDEM-ROTOR ADVANTAGES
- Relatively insensitive to wind direction;
- Easier weight-and-balance distribution;
- Better stability during hovering operations.

M-BARK™ TECHNOLOGY
See details on next page.

SEVERE WEATHER CONDITIONS
ROUGH SEAS
LOW-ALTITUDE MISSIONS
HEAVY FOG
ARCTIC CONDITIONS: ICE SURVEYING
UNIDENTIFIED SHIPS

The large fuselage can incorporate custom communication systems for customers’ specific range and needs.

High-definition gimbal offers the capability to locate, intercept and inspect ships or others.

Image courtesy of L-3 Wescam
The LX300™ is the most versatile UAV-VTOL platform: it can be fully-customizable to perform specific missions. Military-class simulation and the training offered allow managing the risk for each specific situation and environment.

The LX300™ also features the M-BARK technology, which allows unmatched payload configurations. From the quick-attach system to the automatic weight-and-balance, the M-BARK technology offers new possibilities to help you succeed in every mission.

**M-BARK™ TECHNOLOGY**

**NEW POSSIBILITIES FOR NAVAL OPERATIONS**

**M-BARK™ CARGO COMPARTMENT**

**PROTECT YOUR PAYLOADS FROM WATER**

The LX300™ features 3 fully integrated 7 ft³ cargo compartment which allow carrying payloads and hardware inside the fuselage for better protection. Need to protect them from warm or arctic environment? You can use the optional CLIMA-CARGO™, the first tempered and insulated cargo compartment integrated on a UAV.

**M-BARK™ AIRDROP SYSTEM**

**DELIVER FIRST-AID KIT BY DROPPING THE CARGO COMPARTMENT**

The LX300™ also features a «low-velocity airdrop system» that allows dropping the entire cargo compartment and/or additional cargo. Once they are located, you can immediately assist castaways by dropping up to 90 kg of first-aid equipment, such as lifeboats and/or lifebuoys.

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**ICE SURVEYING IN A COMFORTABLE ENVIRONMENT**

Equipment with Ground Penetrating Radar (GPR), LIDAR and/or electro-magnetic systems, the LX300™ Naval can perform ice surveying at low altitude without any risk of crashing in cold water. Helicopter pilots can perform ice surveying inside their warm cabin while enjoying a hot coffee.

**PROTECT THE CREW, SEND A UAV**

Aerial vehicles are the fastest and safest way to locate and control ships and various threats. But helicopters are vulnerable to being shot down over the sea. So, when the situation or the mission is too risky for manned helicopters, don’t take any chances and don’t risk any lives: send the unmanned LX300™.

**SEARCH AND RESCUE DAY AND NIGHT**

The LX300™ Naval can search and rescue all day and all night long. Once it locates castaways, the LX300™ Naval can deliver first-aid kit, communicate directives and offer support for rescuing operations.

**ALWAYS AVAILABLE TO TAKE THE RELAY**

The LX300™ Naval can act as a communication relay between the ship and the deployed crew. One LX300™ Naval offers an autonomy of up to 8 hours; double the system and get unlimited communication relaying.
The LX300™ will meet your standards.

LAFLAMME AERO can deliver payloads, data links, ground stations, training and simulation in order to meet your organization’s standards.

The LX300™ unique cargo space can quick-connect with customized tools to offer the most versatile utility UAV of the naval industry.

M-BARK™ technology
For maximum payload versatility

M-BARK™ payloads

<table>
<thead>
<tr>
<th>TYPICAL APPLICATIONS</th>
<th>Cargo</th>
<th>Imaging</th>
<th>Surveillance</th>
<th>Communication</th>
<th>Search and rescue</th>
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<tbody>
<tr>
<td>Search and rescue</td>
<td>●</td>
<td>●</td>
<td>●</td>
<td>○</td>
<td>●</td>
</tr>
<tr>
<td>Damage assessment inspection</td>
<td>●</td>
<td>○</td>
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<tr>
<td>Law enforcement</td>
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<td>●</td>
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<tr>
<td>Survey (ice or others)</td>
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<td>●</td>
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<tr>
<td>First-responder assistance</td>
<td>●</td>
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<tr>
<td>Communication relay</td>
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LX300™ naval technical specifications

**Performances**

<p>| | |</p>
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<thead>
<tr>
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<tbody>
<tr>
<td>Max takeoff weight</td>
<td>300 kg</td>
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<tr>
<td>Empty weight</td>
<td>190 kg</td>
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<tr>
<td>Payload weight</td>
<td>≤ 90 kg</td>
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<tr>
<td>Fuel weight</td>
<td>≤ 100 kg</td>
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<tr>
<td>Endurance</td>
<td>≤ 8 hours</td>
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<tr>
<td>Mission radius</td>
<td>≤ 150 km</td>
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<td>Max speed</td>
<td>210 km/h</td>
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<tr>
<td>Cruise speed</td>
<td>115 km/h</td>
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**Dimensions**

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<tr>
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<tbody>
<tr>
<td>Airframe length</td>
<td>2.9 m</td>
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<tr>
<td>Airframe height</td>
<td>1.5 m</td>
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<tr>
<td>Airframe width</td>
<td>1.2 m</td>
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<tr>
<td>Rotor diameter</td>
<td>2.8 m</td>
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</table>

**Helicopter technologies**

- Composite blades and fuselage
- Double-hinged rotor technology
- M-BARK™ integrated payload compartment
- Autorotation capability

**On-board systems**

- GPS/INS navigation system w/ optical camera
- Autonomous takeoff and landing system
- SECURE™ obstacle-detection system

**Ground control station**

- User-friendly interface
- Single or dual operator mode
- Pre-program autopilot mode
- Manual override mode
- Flight-programming software
- Compact or custom Naval GCS

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