

Lightweight Mast for Multiple Purposes

LWM



- ★ **LWM can elevate a payload of 20 kg up to 5 meters**
- ★ **Possible to reposition the vehicle with mast extended**
- ★ **Protective bellows provides additional sand or ice protection**
- ★ **No guy-wire to stabilise the mast**
- ★ **Lightweight composite material provides high strength and rigidity**
- ★ **Manually or electrically operated**
- ★ **LWM is silent during operation**
- ★ **Low cost product with high reliability and minimal maintenance**
- ★ **Near zero backlash**

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User features

The Lightweight Mast can be integrated with different payloads and mounted on any vehicles

Some examples of payloads:

- Surveillance systems
- Signal intelligence systems
- Cameras and thermal sights
- Laser range finders
- Antennas

Intelligent control systems with interface capability

The LMW can be operated from inside the vehicle

Control panel for handling the mast can be made autonomously or integrated with the sensor or vehicle system

Dimensions

Elevated height:	5 m
Stowed height:	1.3 m
Weight of payload:	Up to 20 kg
Weight of mast:	55 kg
Elevation time to fully extended:	15 sec.
Power supply:	24 V DC
Outside diameter of mast:	130 mm.
Footprint of mast:	306 x 168 mm.

Environmental

Operational temperature range: -40 deg. C to +70 deg. C

Storage temperature range: -55 deg. C to +70 deg. C

Optional

For mobile mounted solutions, an electric motor can be fitted as plug & play, and be operated from inside the vehicle.

Remarks:

In this example the payload is a daylight camera system from Copenhagen Sensor Technology.

General features.

FSDS offers a lightweight mast based on a patented all electric drive system characterized by low power consumption during extension and retraction.

The LWM has a modular design. It is manual driven and can be fitted with a plug and play electric motor.

The system is scalable in payload and height and can easily be mounted on any vehicle.

If the mast is fitted with a sensor package, it meets the increasing requirements for reconnaissance and surveillance applications - stationary as well as on-the-move operations. The mast interface can be customized for any sensor package.

For more information about the company and other products - please visit our website: www.f-sds.com