

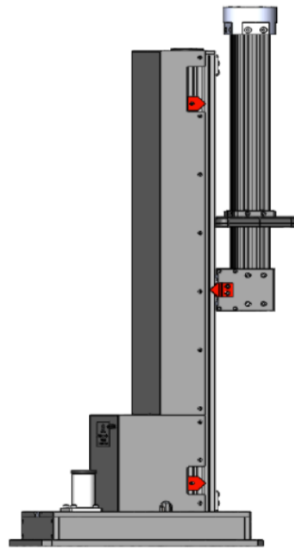
APPLICATIONS:

Border control & observation

OPTIX LM22

Lifting mechanism

The lifting mechanism designed for raising a panoramic device with a multi-sensor system mounted on it above the roof of the vehicle in working position and retracting the same during transport in traveling position. The lifting mechanism is of electro-mechanical type. The drive is carried out by DC motor. It moves the system from transport position to the working position.



The lifting mechanism:

- ✓ After reaching the lower and upper-end position of the EO head drive system has a visual and sound signal;
- ✓ The lifting mechanism raises the wedge tilting device, along with the equipment mounted on it, to a working position above the vehicle roof;
- ✓ Raising and lowering the retractor is possible while the vehicle is moving up to 60 km/h;
- ✓ Includes an overload protection module;
- ✓ The lifting mechanism is generally controlled from the operator's workstation;
- ✓ The lifting mechanism will be in the technical compartment of the vehicle;
- ✓ During the drive operation the EO head drive system is parked in predefined positions without parts of it sticking out of the vehicle;
- ✓ The lifting mechanism automatically stops at the lower and upper positions;
- ✓ During the driving operation, the entire outside of the observation operating system components is supplied in the vehicle;
- ✓ To perform independently the removal and insertion of the insertion of all sensors (thermal

vision camera, daylight camera, laser rangefinder);

- ✓ Provide observation in all directions at any height above the roof of the vehicle;
- ✓ With an emergency system for manual elevating and hiding the head; the opening of the head shaft is protected against precipitation and dirt.
- ✓ OPTIX LM22 payload capacity is 75 kg.
- ✓ OPTIX LM22 power consumption is 360 W at 24 VDC.
- ✓ OPTIX LM22 will be able to operate continuously without failure while exposed to direct sunlight, precipitation (snow, light rain) and when is coated with ice for a period of at least 10 hours. Penetration of rain, snow and so on is prevented.
- ✓ OPTIX LM22 outdoor (ambient) operating temperature is from -25°C up to +55°C.
- ✓ OPTIX LM22 can operate at winds up to 20 m/s.
- ✓ OPTIX LM22 storage temperature is from -25°C up to +55°C.
- ✓ OPTIX LM22 resistance to relative humidity up to 95%.

Note:

Images are for illustrative purposes only.

Due to the company's continuous growth, innovative approach and flexibility, OPTIX reserves the right to change specifications.