

TELEVATOR

— MOBILE TETHER PLATFORM —

MOBILE UAV OPERATING PLATFORM

Vehicle-mounted or deployed at a fixed site



System illustration · vehicle and equipment depend on configuration

Mobile

Vehicle or fixed site

Tether

Ground-fed power

EO/IR

Observation payloads

Relay

Communication payloads

Integrated operating system

TELEVATOR combines a launch and landing platform with ground control, a Valofly tether system and a mission-specific aircraft. Ground-fed power supports extended observation or communication missions. Aircraft, payload and operating limits are specified for each system.

- **Mobile deployment**
Integration on a suitable vehicle, trailer or fixed-site platform.
- **Valofly tether equipment**
Ground station, cable and onboard module selected as a matched set.
- **Network connection**
Wired data path and separate control position are configurable.
- **Landing support**
Compatible landing geometry; UWB precision landing optional.

Configuration-specific specifications · September 2026

TECHNICAL CORE DATA

~100 m¹

Tether design target

Valofly

Tether equipment

Ethernet

Optional data path

UWB

Optional landing support

Platform & operation

System role	Integrated launch, landing and operating platform
Deployment	Suitable vehicle / trailer or fixed-site deployment
Tether length	Up to approx. 100 m as system design target; configuration-dependent ¹
Power configuration	Specified for the selected aircraft, tether equipment and cable length
Payloads	EO/IR observation or communication relay, mission-dependent
Aircraft compatibility	Selected VECTIS configuration with compatible landing geometry ²

Systems & integration

Tether equipment	Valofly ground station, cable and matching onboard module
Data path	Wired Ethernet optional; bandwidth depends on equipment
Operating modes	Tether power with radio control, or wired control and data
Remote control site	Separate operator position via suitable network / fibre link
Backup power	Onboard buffer / backup battery matched to the selected aircraft
Landing support	UWB precision landing optional; platform integration required

CONFIGURATION NOTES

¹ Cable length is not a guaranteed operating altitude. Cable geometry, aircraft capability and operating conditions determine the usable envelope.

² No standard compatibility claim for the existing VECTIS R coaxial-octocopter / landing-ring combination.

Power, payload, endurance and operating limits are defined for the selected system configuration. Contact Vectorbirds for a configuration tailored to your application.