

Solar-powered Autolauncher for autonomous radiosonde soundings

Solar powered, autonomous balloon launcher

Our automatic radiosonde launcher can work fully autonomously and perform up to 6 unmanned radiosonde soundings. Thanks to its integrated solar panels and batteries, it does not require any special infrastructure and can easily be deployed everywhere.

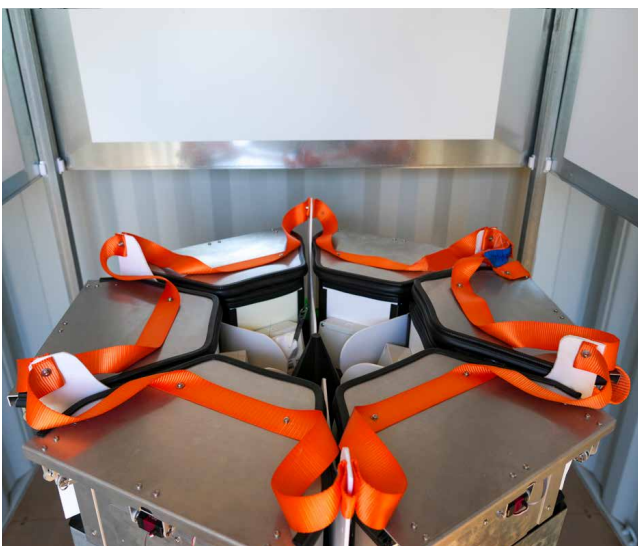
A built-in weather station provides the necessary ground data for the initialisation process. The complete flight can be observed remotely via any smartphone or a web interface. The radiosonde data is received by two antennas (omnidirectional and helical) to provide a full coverage in all possible weather conditions. During the radiosonde sounding, the collected data, status information and standardised messages can be transmitted via LTE.

FEATURES

- Compact design
- No carousel, low maintenance and reliable
- Easy to install, no power supply or data interface needed
- Reliable transmission of the collected data via LTE
- Increases the percentage of successful radiosonde soundings

Technical Data (extract)

Power Supply	12 VDC / 200-240 VAC / solar panels
Loading Capacity:	6 radiosondes
Max. Balloonsize	350 g
Gas type	Helium
Dimensions	2.44 m x 2.99 m x 3.21 m



Balloon launch pad without carousel



Autonomous and solar-powered radiosonde soundings