



Carta Mapping Kit

Low-cost - Lightweight - Versatile

Carta mapping Kit is a Low-cost, lightweight, and versatile drone mapping solution, that can be mounted on any drone above a 200gm payload capacity. The kit facilitates in capturing a robust three-dimensional geo-referenced map data that can be used to generate analytics for your essential use cases.

From monitoring and surveying constructions sites for efficient progress tracking, to mapping a vineyard for asset management and per-plant farming applications, use our easy to mount kit that comes with an in-built high-resolution camera and that supports our Continental Long Range 4D RADAR for additional depth perception capabilities. The kit can connect to your drone's RTK positioning system to provide a reliable and accurate map information that accurate to centimeter level. Popular off-the-shelf LIDARs can also be interfaced to the Kit.

It is as easy as, Attach, Record, & Play. Using our advanced calibration methods, and the onboard IMU, we assure accurate registration of image data with a depth sensor. Using our advanced visualization and analysis software Carta, you can extract essential information that puts your business ahead of the race.

Technical Information:

- › **Camera type:** Mono (included)/ Stereo vision (optional)
- › **Camera resolution:** Up to 8Mpix
- › **RADAR* Interface:** Automotive Ethernet (100 Base T1)
- › **LIDAR (not part of the kit) Interface:** Ethernet (RJ45) (100 Base T)
- › **Supply Voltage Range:** +14V to +55 V
- › **Peak power (with RADAR):** -60W
- › **Peak power (without RADAR):** -24W
- › **LIDAR power requirement:** Model dependant
- › **Operating Temperature Range:** -40 to +95°C
- › **Storing temp range:** -40 to +95°C
- › **Weight:** -200g (without RADAR)

Benefits:

- › **Long range:** additional depth perception capabilities possible through Conti RADAR (upto 350m) and 3rd party LIDAR
- › **Accurate:** The kit supports interface to your drone's RTK positioning system to provide a reliable and accurate map
- › **Flexible:** Our kit's flexible design allows to interface popular LIDARs in the market for increased depth perception

Typical Areas of Application

- › Monitoring & surveying (Construction / Agri)
- › Asset management
- › Georeferenced work allocation and planning
- › Data gathering for analytics - to gain business efficiency

