

CRD1

**American Made
Professional sUAS Platform**



The Carlson CRD1 is an American made sUAS platform with a LiDAR, photogrammetry, bathymetry, or other payload capacity up to 20lbs. The CRD1 is specifically designed for advanced users in the surveying, construction, engineering, mining, quarry, land development, and related industries

The acquired data - LiDAR, photogrammetry, and bathymetric - can be processed in Carlson PhotoCapture (photogrammetry) and Carlson Point Cloud Advanced (point clouds) to create maps, surface models, design and as-built models, volume calculations, profiles/sections, and more.

INCLUDED

- CRD1 Aircraft Ready to Fly
- Radio controller
- SKB Travel Case With Custom Foam
- Prop Protectors
- ISO Mount Plate
- Dual battery charger
- Two 16Ah LiPo batteries with case
- GNSS antenna, battery cables, repair toolkit

KEY SPECIFICATIONS

- Motors: (4) X6 170kv
- Propeller size: 24"
- Weight: ~12 lbs. / ~5.5kg
- Max payload: ~20 lbs. / ~9 kg
- Flight time: ~20-45 minutes (varies with payload and weather conditions)
- Control range: ~9 miles / ~15 km
- Max speed: 50 mph / 72 km/h
- Flight Control: Auterion Skynode
- FPV Camera
- Remote ID Ready
- 4G LTE cell modem
- NDAA Compliant Option Available



BREAK NEW GROUND

CRD1

- Motors: (4) X6 170kv
- Propeller size: 24"
- Weight: ~12 lbs. / ~5.5kg
- Max payload: ~20 lbs. / ~9 kg
- MTOW: 44 lbs. / 20kg
- Power: 10-25Ah 44v 2-6s
- Flight time: ~20– 45 minutes (*varies with payload and weather conditions*)
- Control range: ~9 miles / ~15 km
- Max speed: 50 mph / 72 km/h
- Flight Control- Auterion Skynode
- Dust & water-resistant
- Maximum thrust ~88 lbs. / ~40 kg
- FPV Camera
- Remote ID
- LTE 4G
- 2.4/5ghz Wifi

GCS Radio

- 5.5 inch 1000nits screen
- Android OS
- 4G LTE
- USB
- HDMI
- Micro SD Card
- 15km Control Distance
- FCC certified
- 1080P HD
- 13 hr operation
- IP53
- Operating Temp - 10° ~ 50°
- AMC ground control software

CRD1

Payload Options



Resepi Hesai XT-32 LiDAR sensor



Sony α7R 61MP camera with Pixy gimbal



EchoLogger ECT D052S bathymetric sounder

