Artec Ray II

Manufacturer: Artec 3D

Artec Ray II is a laser LiDAR scanner for large objects, buildings, and extensive scenes, with a range of up to 130 meters. Mounted on a tripod, it captures geometry and panoramic color images.

Product page: https://cad.kz/en/catalog/3d_skanery/artec_ray_ii/

Specifications

ACCURACY AND RESOLUTION	
3D point accuracy	1.9 mm at 10 m; 2.9 mm at 20 m; 5.3 mm at 40 m
Angular accuracy	18 arcseconds (0.87 mm at 10 m)
Range measurement accuracy	1.0 mm + 10 ppm
Resolution	3 selectable modes: 3 / 6 / 12 mm at 10 m
Range measurement noise	0.4 mm at 10 m; 0.5 mm at 20 m
SCANNING	
Field of view	360° horizontal / 300° vertical
FIELD OF VIEW AND RANGE	
Range	0.5–130 m
SPEED	
3D capture speed	Up to 2,000,000 points/s
Scanning time without texture at 10 m	1 min 42 s at 3 mm; 51 s at 6 mm; 26 s at 12 mm
Scanning time with texture at 10 m	2 min 42 s at 3 mm; 1 min 51 s at 6 mm; 1 min 26 s at 12 mm
COLOR CAPTURE	
Camera	3 × 36 MP cameras, 432 MP of raw data for a 360° × 300° spherical panorama
High dynamic range (HDR)	Automatically, 5 exposures
CONTROL	
On-scanner controls	WVGA 480 × 800 color touchscreen
Mobile device controls	Artec Remote app for iOS and Android: start scanning, adjust settings, remote control
ALGORITHMS	
Real-time scan registration	Automatic point cloud registration: visual-inertial system tracks scanner movement between stations
Automatic moving object removal	Moving object removal (Double Scan)
Verification and adjustment	Field verification of angular parameters without targets

NAVIGATION SENSORS	
Visual-inertial system	Video-assisted inertial system tracks scanner position relative to the previous station
Tilt	IMU-based, 18 arcsecond accuracy (tilt up to ±10°)
Geolocation sensors	Altimeter, compass, GNSS
INTERFACES	
Wireless connectivity	Built-in Wi-Fi (802.11 b/g/n)
Data storage	Removable USB 3.0 AS256 drive, 256 GB
HARDWARE SPECIFICATIONS	
Scanning technology	Waveform digitizing time-of-flight (WFD)
Laser class	Class 1 (IEC 60825–1:2014), 1550 nm, invisible
Dimensions	120 × 240 × 230 mm
Mounting mechanism	5/8" quick mount for carbon-fiber tripod or adapter
DESIGN	
Weight	5.35 kg without batteries
POWER SUPPLY	
Internal batteries	2 built-in AEB364 Li-ion batteries
Internal battery runtime	Typically up to 4 h
Weight per battery	340 g per battery
External power supply	GEV282 power supply
OPERATING CONDITIONS	
Operating temperature	−5 to +40 °C
Storage temperature	−40 to +70 °C
Low-temperature operation	−10 to +40 °C
Dust and moisture protection	IP54 (IEC 60529), dust and splash protection

Supplier — CAD.kz

Phone	+7 (7172) 578-028, +7 (771) 936-50-20
Email	office@cad.kz
Address	6/1 Pushkin St., Astana
Working hours	Mon–Fri, 9:00–18:00
Website	cad.kz
Company	Товарищество с ограниченной ответственностью «CAD.kz» (КАД.кз)
BIN	080540017610
КБЕ	17

cad.kz

Location	Республика Казахстан, 010000, город Астана, район Байконур, ул. Пушкина, д.6/1, ВП-1
IBAN	KZ248562203140498999
Bank	АО «Банк ЦентрКредит»
BIC	KCJBKZKX

Specifications are according to the manufacturer. The configuration, delivery time and price will be confirmed by a CAD.kz manager in the commercial offer.