3DR® Site Scan™ specifications and technical data

Site Scan™

Site Scan Drone

FLIGHT TIME
16 minutes with payload

COMMUNICATION RANGE
3000 ft or greater (>1 km)

MAX SPEED
25 mph (40 km/h)

MAX RATE CLIMB
4 m/s in stabilize mode

MAX ALTITUDE
400 ft (122 m) per FAA regulation

DIMENSION
10 in tall (25 cm) / 18 in (46 cm) motor-to-motor

WEIGHT
4.4 lbs (1.99 kg) w. Sony R10C

COMMUNICATION
3DR Link secure WiFi network

FREQUENCY
2.4 GHz

PROPELLERS
10" (24 cm) diameter / self tightening

MOTORS
880 kV

AUTOPILOT
Pixhawk 2

SOFTWARE
APM:Copter

FLIGHT BATTERY
Lithium polymer 5200 mAh, 14.8 Vdc

BATTERY CHARGE TIME
~1.5 hours

CONTROLLER BATTERY
Lithium ion 2600 mAh, 7.2 Vdc

Site Scan App

- Plan and manage missions/ jobs in the field
- Control and fly Solo drone
- Select resolution of surveys and scans
- Monitor historical change while in the field
- Automatically geotag for enhanced model precision
- Publish imagery from 3DR & Autodesk clouds

3DR Cloud

- Unlimited data storage
- Unlimited 2D map and 3D model creation
- Easy access to models from Autodesk® software
- Full data sharing with stakeholders

Camera

SONY R10C

SENSOR: CMOS
SIZE: APS-C
RESOLUTION: 20MP
FOCUS MODE: Autofocus
ISO SENSITIVITY: 100-16,000

LENSES
Sony E PZ 16-50mm zoom lens
Sony E 20mm prime lens

Elevate Your Business

Introducing the Site Scan platform with seamless Autodesk integration

APIONSTUDIO

3DR

Site Scan™ captures existing site conditions and imports the maps and models into the Autodesk tools you use every day

The complete package that lets you survey, scan and inspect your work site.

INTUITIVE

From your site to the cloud with a tap.

FULLY AUTOMATED

A safe and simple experience designed for the field professional. Fully automated flights, from takeoff to data capture to landing, so that operators can focus on data. The Solo® drone comes ready to fly, and it's easy to carry and deploy.

ALL-IN-ONE APP

Execute and manage aerial jobs entirely from the Site Scan app, no controller is needed. Any service technician can control the camera and vehicle using familiar tablet gestures.

CONNECTED TO THE CLOUD

Autonomously send aerial data straight to your cloud analysis system, right from the app. See the full history of past inspections, maps and surveys when you are on the field. Easily share your data with all relevant stakeholders.

POWERFUL

Capture, process, analyze and securely deliver aerial data.

PROFESSIONAL IMAGING

3DR® partners with leading camera manufacturers to deliver the best image quality. Site Scan captures images with the professional Sony® UMC-R10C camera and transforms images into accurate maps and models.

AUTOMATIC UPDATES

We constantly improve Site Scan to enhance its capabilities and match them to your business needs. Automatically receive free over-the- air updates to benefit from the latest innovations.

AUTODESK INTEGRATION

Data collected with Site Scan can be integrated with market leading design and analytic platforms like Autodesk.

COMPLETE

Built for enterprise scale.

INDUSTRY-LEADING SUPPORT

3DR Success Services includes a designated technical account management team. Should your drone ever have an issue due to accident or malfunction, 3DR will overnight you a replacement even before you send your broken one back.

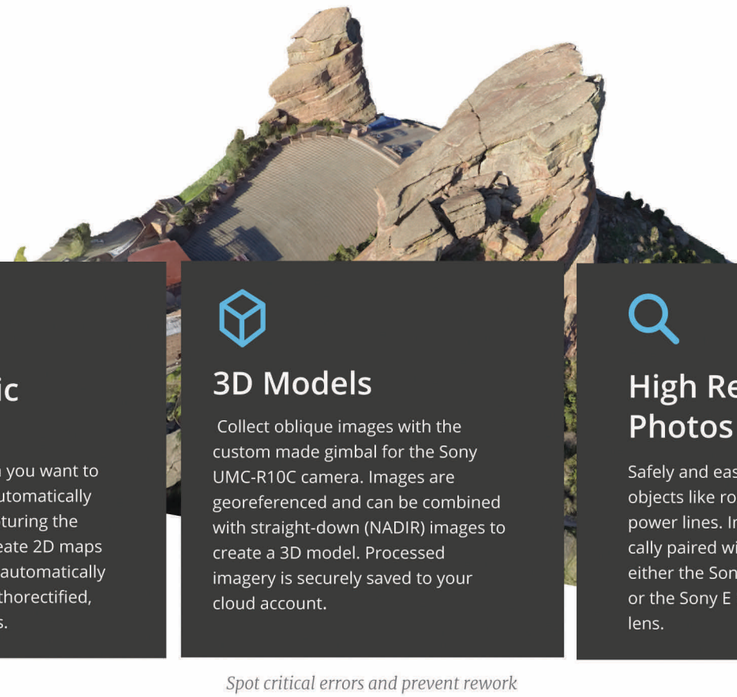
ENTERPRISE CLASS SECURITY

Data integrity is maintained from the camera to the cloud. Minimize mistakes and make sure all inspections are performed as prescribed.

SINGLE VENDOR

Site Scan is built for large organizations with multiple teams using UAVs. Rely on one vendor for hardware, software, and support.

The Site Scan™ app supports all reality capture needs with three modes:



Orthomosaic Basemaps

Simply outline the area you want to survey and Site Scan automatically executes the flight, capturing the images you need to create 2D maps and DEMs. Images are automatically processed to create orthorectified, georeferenced mosaics.

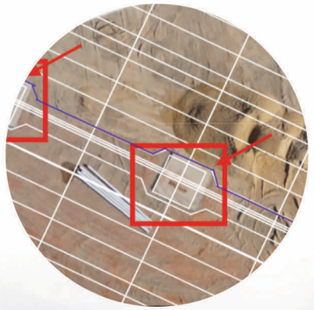
3D Models

Collect oblique images with the custom made gimbal for the Sony UMC-R10C camera. Images are georeferenced and can be combined with straight-down (NADIR) images to create a 3D model. Processed imagery is securely saved to your cloud account.

High Resolution Photos

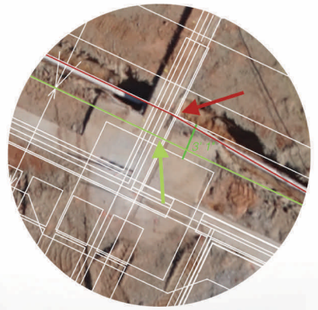
Safely and easily inspect elevated objects like rooftops, towers and power lines. Images are automatically paired with rich metadata. Use either the Sony E 20mm primes lens or the Sony E PZ 16-50mm zoom lens.

Spot critical errors and prevent rework
Overlay design models ontop of existing conditions to spot errors early and document as-built details



Identified Issue: *7"+ over-pours preventing clashes between heating pipes and columns*

Corrective Action: *saw overpour back to column footprint*



Identified Issue: *Heating pipe fed through incorrect foundation sleeve, leaving a 3'1" gap. Identification of the issue ended a three day delay.*

Corrective Action: *feed through the correct sleeve*

Identified Issue: *Incorrect trench-work before pipes installed, buried, and covered with a concrete*

Corrective Action: *re-dig trench as prescribed by CAD*

CAPIONSTUDIO