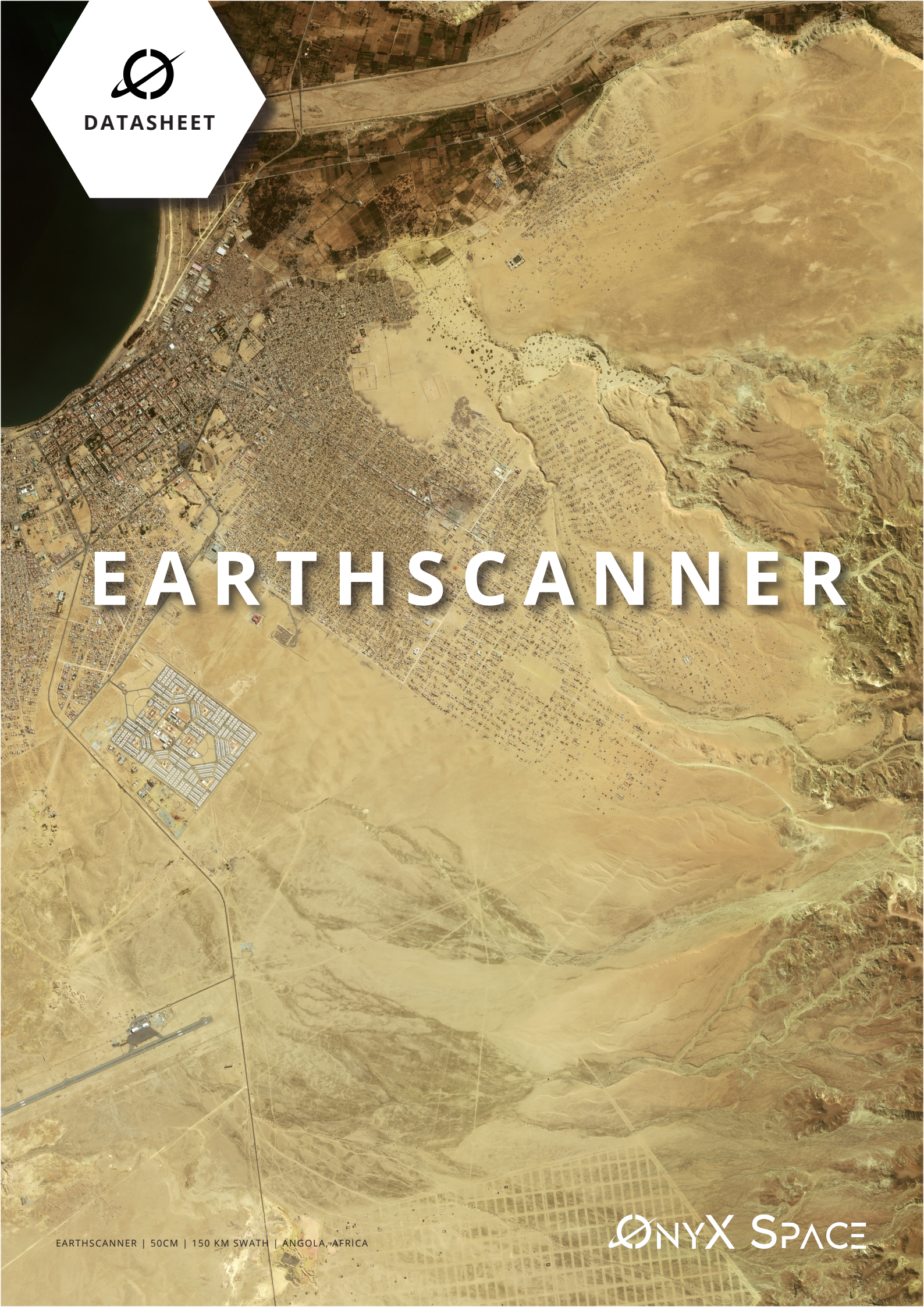
DATASHEET

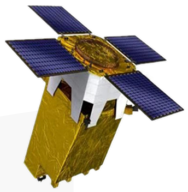
EARTHSCANNER



EARTHSCANNER | 50CM | 150 KM SWATH | ANGOLA, AFRICA

ONYX SPACE

EARTHSCANNER



50 CM GSD

150 KM SWATH

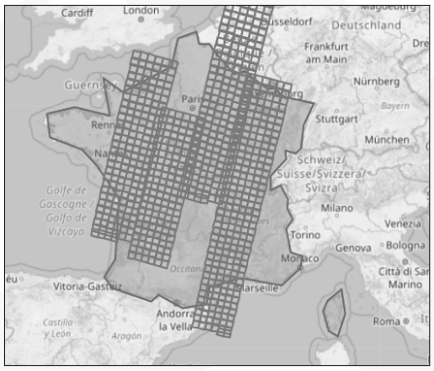
The EarthScanner satellites were launched successfully in 2020, 2022, and 2023 with the world's widest swath among sub-meter satellites, with a width of 150km and a GSD of 0.5m, shortening the period to obtain high-resolution images in large areas.

EarthScanner is adaptable for timeless large-scale mapping with a 1.3 million km² daily image capacity and can capture an entire city or country in a single image.

Weight	1.25 T
Orbit	Altitude: 481 km Type: Sun-synchronous
Sensor bands	Panchromatic: 450-800nm 4 multispectral: Blue: 450-510 nm Green: 510-580 nm Red: 630-690 nm Near-IR: 770-895 nm
Ground Sampling Distance	PAN (nadir): 0.50 m MS (nadir): 2.00 m
Dynamic range	12 bits
Swath width	150 km
Onboard storage	16TB
Revisit time	2 Days
GEO location	<8.5m (CE90)
Off-pointing angle	± 45°
Imaging Mode	push broom imaging

- The world's largest swath sub-meter optical remote sensing satellite
- Image capture capability reaches 1.3 million km² per day
- Large scale rapid mapping with weekly monitoring requiring time series imagery over several thousands km².

COUNTRY COVERAGE EXAMPLE



FOUR EARTHSCANNER WIDE SWATH STRIPS (150KM WIDTH) OVER FRANCE.

SENSOR BANDS

PANCHROMATIC

MULTISPECTRAL

ONYX SPACE

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