



SIMERA
SENSE

xScape100 Product Range

Simera Sense is introducing the highest earth observation performance in the most compact form factor for nanosatellites.

Less than
4.75 m
GSD at 500 km

Fits in a
1.5U
Volume

RGB/Video
Multispectral
Hyperspectral

www.simera-sense.com

A new standard for remote sensing payloads.

The xScape100 is shifting boundaries with an unprecedented leap in optical front-end and sensor technologies. The large aperture diameter and long focal length within a compact form factor enable a compelling spatial resolution for 3U and 6U Cubesats.

TriScape100

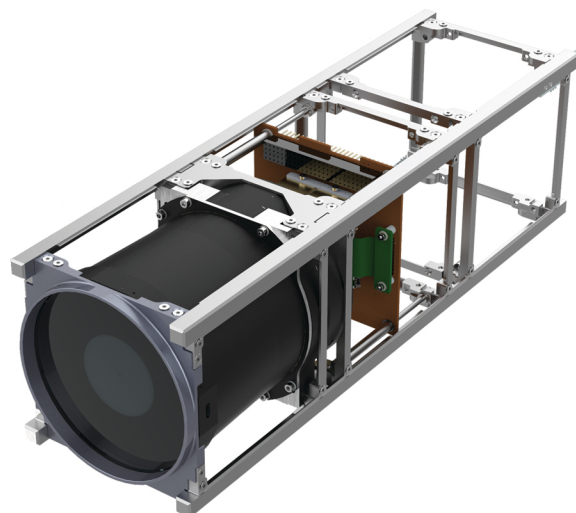
The TriScape100 offers near real-time earth observation with HD-video capabilities in the visible spectrum at an exceptional resolution.

MultiScape100

The TDI enabled MultiScape100 brings more pixel depth in seven spectral bands to enable a whole new range of earth observation applications.

HyperScape100

The HyperScape100 covers the visible and near-IR spectral range in up to 32 bands at an unparalleled spatial resolution.



	TriScape100	MultiScape100	HyperScape100
Configuration	Area Snapshot	Push Broom	Push Broom
Focal Length	580 mm	580 mm	580 mm
Front Aperture	95 mm	95 mm	95 mm
GSD at 500 km	4.75 m	4.66 m	4.75 m
Swath at 500 km	19.4 km	19.1 km	19.4 km
TDI Enabled	N/A	256 Stage TDI	10 Stage Digital TDI
Pixel Depth	10 bit	12 bit	10 bit
Spectral Bands	RGB Bayer Pattern	7 Bands VNIR	32 Bands VNIR
Spectral Range	450 - 670 nm	450 - 900 nm	450 - 900 nm
Power Consumption	6 Watt (Typical)	6 Watt (Typical)	6 Watt (Typical)
Mass	1.1 kg	1.2 kg	1.2 kg
Volume	98 x 98 x 176 mm	98 x 98 x 176 mm	98 x 98 x 176 mm
Operating Temperature	-10°C to 50°C	-10°C to 50°C	-10°C to 50°C

SIMERA
SENSE

www.simera-sense.com

Old Paardevlei Road, Somerset West, 7130, South Africa
Tel: +27 (0)21 852 6450, info@simera-sense.com