

WORLDVIEW LEGION

Introducing WorldView Legion, Maxar's next-generation, high-resolution constellation. WorldView Legion's first block will be a fleet of six high-performance satellites that deliver continuity for existing customer missions and dramatically expand revisit over high-interest areas to better inform critical, time-sensitive decisions.

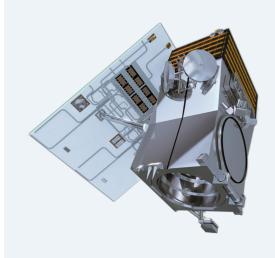
Flying as a constellation, WorldView Legion more than triples Maxar's 30 cm capacity and triples capacity over high-demand areas for more rapid and reliable collections. When all six WorldView Legion satellites are online, Maxar's constellation will be capable of up to 15 revisits per day—throughout the day, rather than at fixed times.

Features and benefits of each WorldView Legion Satellite

- » Very high-resolution
 - Panchromatic 29 cm GSD
 - Visible & near-infrared 1.16 m GSD
- » 8-band VNIR multispectral imagery for a wide variety of applications
- » Industry-leading precision geolocation accuracy (<5 m CE90) without ground control points
- » Direct Access tasking from and image transmission to customer sites using customer-unique encryption keys

- » Communications system compatible with Maxar's existing ground network and Direct Access Facilities (DAFs)
- » Simultaneous receive, image, and downlink operations
- » Large area mono and stereoscopic collection eliminates temporal variations
- » 10-year mission life consistent with WorldView satellites

WorldView Legion will have three product levels. Basic products (Level 1B) provide sensor-oriented, radiometically-calibrated mono and stereo imagery for users to do their own image geo or orthorectification. Standard products (Level 2A/2B) are map-projected with uniform pixel spacing across products for image manipulation and analysis by image processing software. Finally, Ortho Products (Level 3) are ideal for image viewing and locational reference when high positional accuracy is required.



WorldView Legion artist rendering

U.S. Corporate +1.800.496.1225 London +44.20.3695.0920 Singapore +65.6389.4851 MAXAR.COM

Design and specifications of each WorldView Legion satellite

Orbit	Altitude: 450 km Type: mid-inclination and synchronous, 10:30 am descending node Period: 94 min
Life	Expected service life: 10 years
Spacecraft size and mass	Size: 3 m tall x 2 m x 2 m (not including width of solar array) Dry mass: < 750 kg
Sensor bands	Panchromatic: 450 - 800 nm 8 Multispectral Coastal: Blue: 400 - 450 nm Blue: 450 - 510 nm Green: 510 - 580 nm Yellow: 585 - 625 nm Red: 630 - 690 nm Red Edge1: 695 - 715 nm Red Edge2: 730 - 750 nm Near-IR: 770 - 895 nm
Ground Sample Distance (GSD)	Panchromatic nadir: 0.29 m Multispectral nadir: 1.16 m
National Imagery Interpretability Rating Scale (NIIRS)	5.9
Swath width	At nadir: 9 km
Geolocation accuracy (CE90)	< 5 m CE90 without ground control points

SENSOR BANDS

- » Panchromatic
- » 8-band multispectral

RESOLUTION AND ORBIT VARIATIONS

WorldView Legion can be flown at a range of altitudes for between 29 and 50 cm GSD. Additionally, WorldView Legion can be flown in a sun-synchronous or mid-inclination orbit. Technical specifications for these other scenarios and collection capability for the entire WorldView Legion constellation can be provided upon request.

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