



SPACEVIEW™ 110

SATELLITE IMAGING SOLUTION

HIGHEST RESOLUTION IMAGING SYSTEM COMMERCIALY AVAILABLE

BENEFITS

Provides world-class performance and stability through thermal control systems

Improves situational awareness and intelligence through broad spectral capabilities

Supports multiple missions with dual-purpose payloads

Harris has provided some of the most relied upon imaging systems in space for over 50 years. Today, we continue the legacy by bringing to the market cutting-edge capabilities which offer the fastest, highest resolution imaging capability commercially available.

THE PAYLOAD

The SpaceView™ 110 payload serves as the imaging payload for DigitalGlobe's WorldView-3 and WorldView-4 satellites. Delivering up to 25 centimeter panchromatic resolution, SpaceView™ 110 boasts the most advanced capabilities available from an imaging payload on the market today.

DIVERSE INDUSTRY APPLICATIONS

Satellite imaging offers critical insight to a diverse group of industries, including agriculture organizations, disaster and emergency responders, insurance companies, investment firms, oil and gas companies, and urban planners. For example, agricultural organizations can

utilize the visible and near-infrared (VNIR) imaging capabilities to differentiate between foliage types and determine vegetative health. For disaster and emergency responders, short-wave infrared (SWIR) imaging capabilities can help teams see through smoke to determine the hot spot of a fire to effectively deploy resources. For oil and gas companies that need to explore difficult-to-reach parts of the world, multispectral imaging can be put to use to find natural resources in remote areas.

No matter the industry, the broad spectral range of SpaceView™ 110 offers customers the ability to see and identify what is on the ground at the highest resolution commercially available.

CAMERA SPECS

OPTIONS

PAN + MS Scanning

- 8,000 to 40,000 pixel TDI linear array
- 10,000 lines per second (klps) to 40 klps PAN rates
- PAN + 4MS or 8MS

Thermal Control and Focus Control

- Enable on-orbit adjustment for optimal image quality

Structural Components

- Outer barrel and door assembly

FASTEST SCANNING AVAILABLE

Scanning at 24,000 lines/second, the SpaceView™ 110 imaging payload is capable of providing an image spanning from London to Paris in just 45 seconds. This feature enables users to understand what is happening over a long distance as soon as possible.

HIGHEST RESOLUTION AVAILABLE

From an altitude of 500 kilometers, the SpaceView™ 110 imaging payload is capable of providing imagery with a ground sample distance (GSD) as low as 25 centimeters. This means that the sensor is capable of capturing data points that are 10 inches apart. For example, this imagery would enable urban planners to see cities in such detail they could count the number of people in an area of interest.

PRECISELY MANUFACTURED

The surface figure of the 1.1 meter diameter primary mirror is manufactured to an accuracy of 1/1000th of a human hair. In fact, if the smoothness of the Primary Mirror is off by even the width of a human hair, the image would be a complete blur. This precision is key to delivering superior image quality that may be passed along to end users to accurately assess imagery and make important decisions.

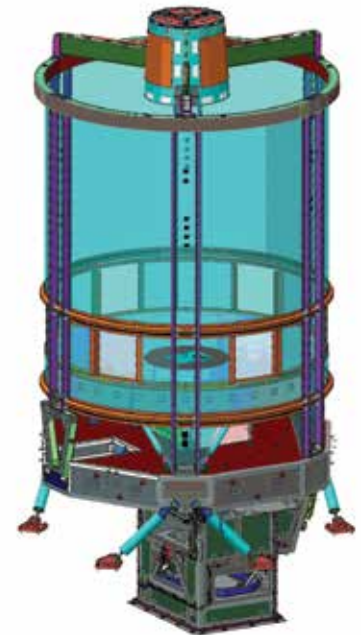
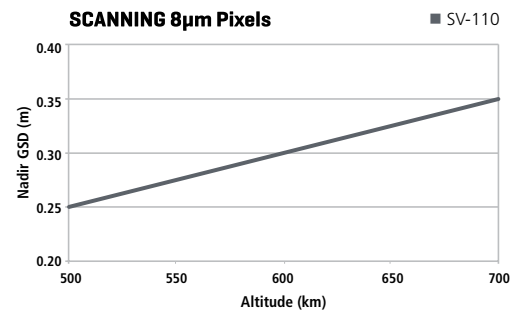
END-TO-END CAPABILITIES

Harris solutions extend to include processing and compression aligned with system and mission needs. The optimal solution may be tailored to support needs based on overall size, weight, and power requirements.

SPACEVIEW™ 110 SV-110

Aperture	1.1 m
Payload Mass	470 - 550 kg
Imaging Power	925 - 1100 W
Resolution @500km (GSD)	0.25 - 0.30 m
Sensor Capabilities	<ul style="list-style-type: none">• Staring• Scanning• Motion Imagery / Video• Low Light
Bands	<ul style="list-style-type: none">• Visible Pan / Color• Pan, 4- or 8-band MS• SWIR/MWIR

SCANNING 8µm Pixels



SpaceView™ 110

About Harris Corporation

Harris Corporation is a leading technology innovator, solving customers' toughest mission-critical challenges by providing solutions that connect, inform and protect. Harris supports government and commercial customers around the world. Learn more at harris.com.

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