



Mosaic Viking

*Highest resolution
and most powerful 360°
camera in the world.*



**Best-in-class
360° mobile mapping
camera for 3D
modeling, Digital Twin
creation, and AR
platforms**

Designed and built from the ground up to capture the finest detail of extremely large spaces, in the most extreme situations.

- Six 31.5-Megapixel APS-C image sensors
- Global Shutter
- 12-bit uncompressed RAW images
- Equirectangular Resolution 200MP
- Industrial-grade engineering, design, and durability
- Live image preview

Mosaic Viking

Designed and built in Europe to easily capture expansive areas to the finest detail



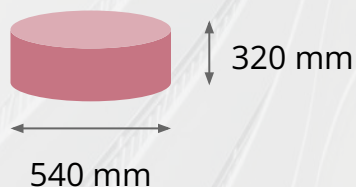
Feature highlights

The first and only mobile mapping camera for large scale data collection without full-scale production.

- Detect the smallest details with the highest resolution 360° camera in the world.
- Capture images equally in all directions with high definition quality.
- Safely operate in harsh climates and conditions due to its robust frame.
- Flexible and adjustable, with no vendor lock-in and ability to customize with additional sensors.

Dimensions

Length: 540 mm
Width: 540 mm
Height: 320 mm

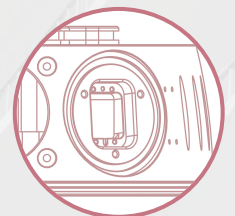


Weight

Approx. 30 kg (~66 lbs)

Power consumption

~100 W camera head
+ 300 W computer





Supremely powerful, protected optics



Strength and
pixel-precision
detail in one

- 6 x APS-C size 31.5MP sensors with 6 x 11 mm lenses
- Total resolution 20K or at least 20,000 x 10,000
- 200 megapixels
- 123° x 91° lenses utilizing all pixels on the sensor, with the ideal balance of overlap vs. resolution.
- Minimal stretching and distortion of the source images so that the actual resolution in the final panorama is consistent across the whole image, including straight up
- Image sensors with proper thermal management, giving noise-free operation even in the harshest environments

12-bit uncompressed RAW images

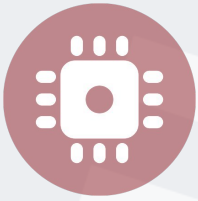


Amazing image quality

- No loss of any definition or color quality
- No risk of errors and artefacts around high-contrast edges
- Preserves nearly all of the dynamic range even in harsh lighting

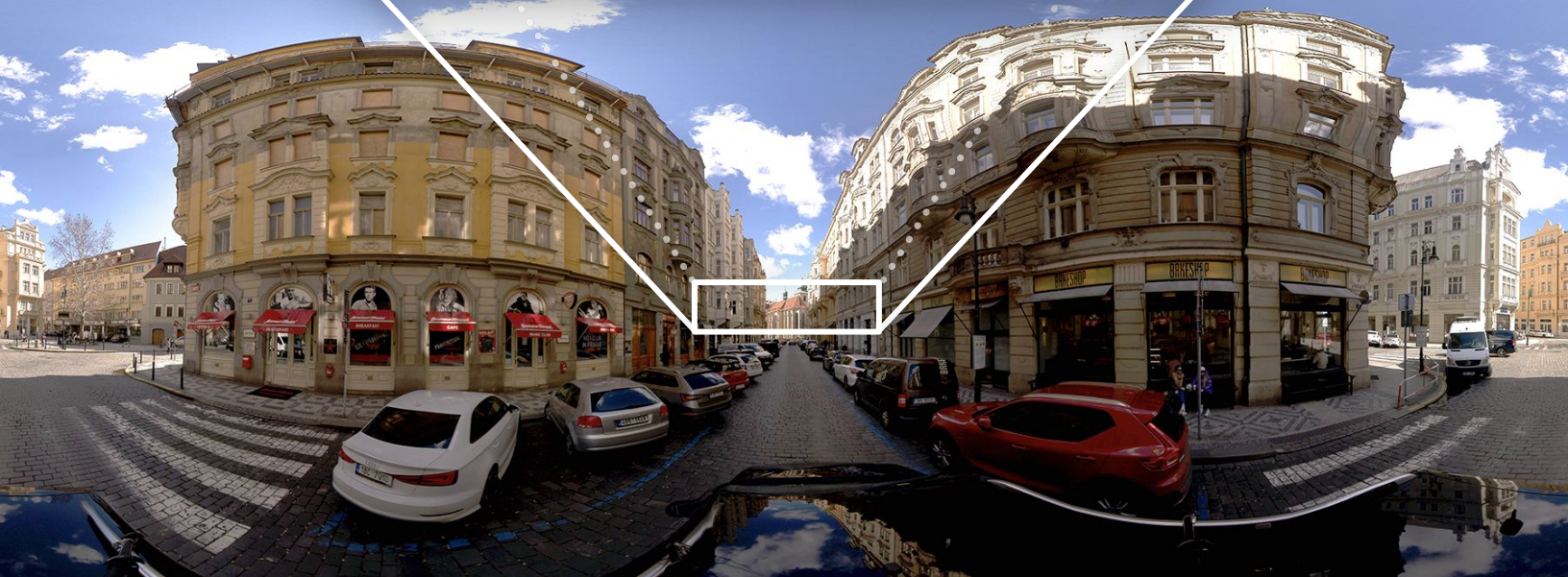


Properly synchronized sensors with auto exposure



Precisely
synchronized global
shutter camera
sensors

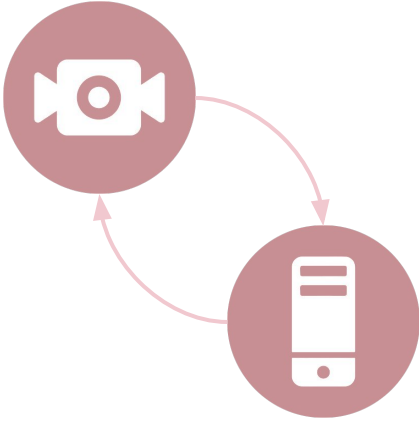
- Auto exposure performed with a maximum of 3 frames latency, exposure is the same across all sensors, and synchronization/jitter is less than 1 millisecond.
- Minimizes 'blowout' between sun and edge of buildings
- Offers a single unified and consistent image
- Global shutter with accurate portrayal of objects at any speed





Mosaic Viking

Seamlessly transfers data from camera to computer

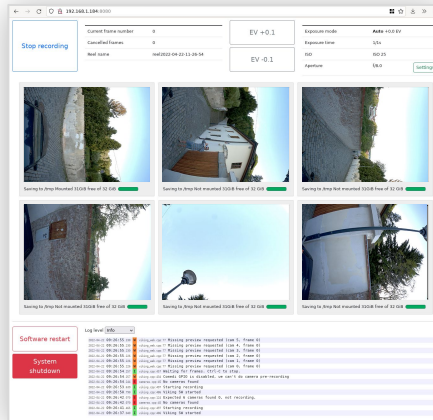


- Non-disruptive data transfer
- Includes six 10GbE (10 gigabit ethernet) cables (or higher)
- Customization available to connect with additional sensors

See real-time data with live image preview



Operators on board maintain command of the image collection with real-time image preview



- Camera software includes live image preview (up to 1 second latency, minimum 1 FPS) as well as controls for monitoring the recording, setting various recording parameters and start/stop recording



Effortless point cloud creation with extreme resolution

The only 360° camera capable of immensely rich point cloud creation

- Generate detailed 3D models of objects, assets and spaces
- Create 3D reconstructions for Digital Twins, Smart Cities, virtual reality, video games, and much more



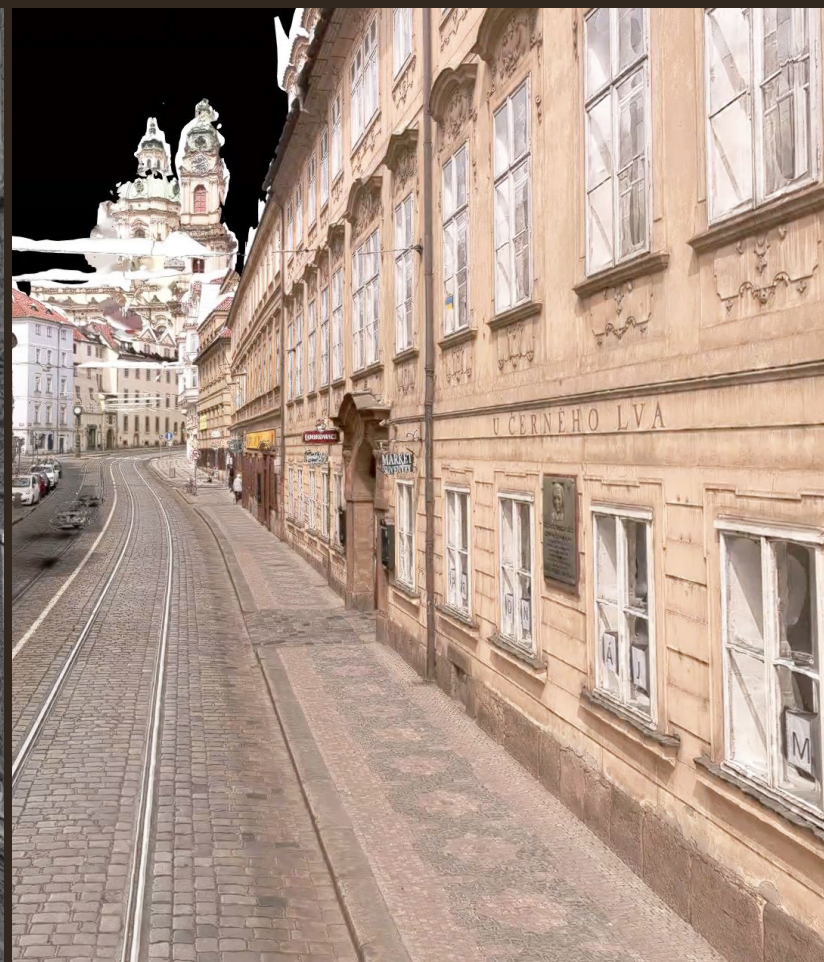
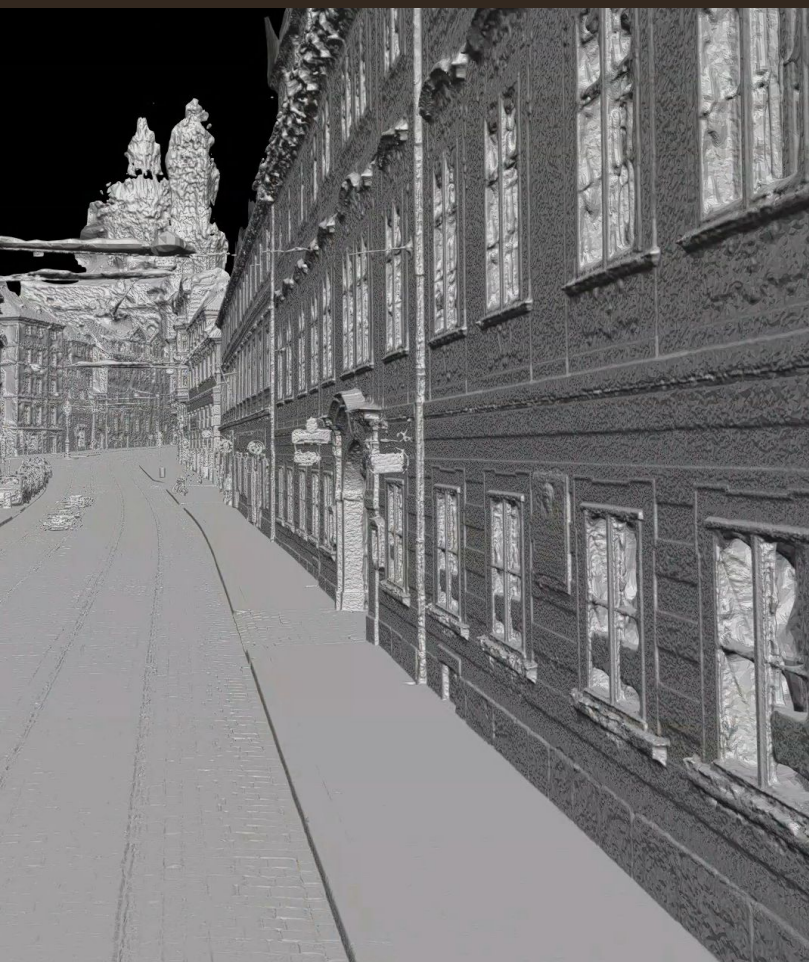
Mosaic Viking:

Rich 3D data & dense point cloud creation



Without LiDAR you can quickly and easily collected data to create photorealistic environments and detailed mesh and textured 3D models.

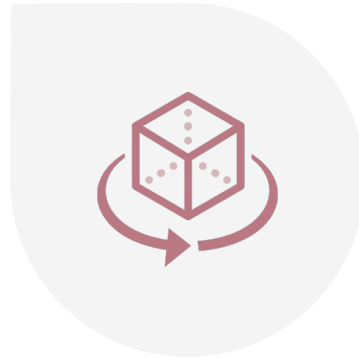
Or synchronize with LiDAR data to easily colorize point clouds.



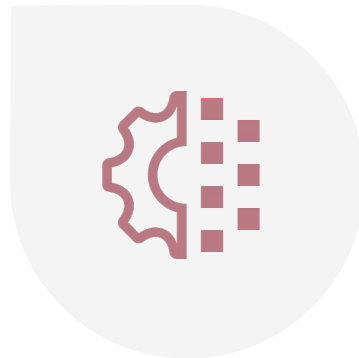


Applications

How to create competitive advantages with Mosaic Viking



Capture data to create 3D models of large indoor facilities, outdoor spaces, and entire cities in unprecedented quality.



Create Digital Twins of manufacturing plants, cities, and construction sites and maintain them in real-time.



Discover the power of AR by gathering the highest resolution images to create realistic augmented reality environments.

The company

Mosaic is a 360° camera hardware and services company based in Prague, Czech Republic.

We are passionate about building new tools to document the world in ever-increasing quality, frequency, and resolution.

We are the only company in the world building a camera specifically for ground-level mapping and imaging at scale, with available services combining our hardware, logistics know-how, and delivery of data in one integrated package.



Our team has been in the game for decades making us industry experts in the field of 360° imaging.

Mosaic is on a mission to revolutionize the quality of data collected for mobile mapping with our 360° cameras and data capturing services.