Bring Your Own Camera (BYOC)



SiteTrax.io supports a **Bring Your Own Camera (BYOC)** model, letting you use a compatible third-party camera with the SiteTrax.io Gate platform instead of a SiteTrax.io-supplied device. This page explains what to evaluate before you deploy your own camera, the prerequisites and technical requirements for connecting it, and who is responsible for what. Read it alongside the SiteTrax.io Gate Camera Installation Requirements and Guidelines, which cover the mounting, lighting, speed control, and operational standards that apply to any Gate camera.

Before you commit to a BYOC deployment, it helps to work through the practical, operations-focused checks below with your SiteTrax.io account representative. The goal is to confirm how your camera will behave in real-world conditions and avoid surprises later.

Prerequisites

Before connecting your own camera, make sure the following are in place. Your SiteTrax.io account representative or the support team can help you with any of these:

- You have **signed up for SiteTrax.io** and have access to the SiteTrax.io Intelligence (see Accessing the SiteTrax.io Intelligence).

- You have a **project established** in the SiteTrax.io Intelligence for the site where the camera will be deployed (see Organization Configuration).
- You have a compatible camera that supports the agreed upload destination and delivery method.
- You have agreed whether storage is customer-provided or managed by SiteTrax.io.

BYOC Evaluation Criteria

1. Camera Visibility and Capture

Confirm your camera can reliably see and capture the asset IDs you care about in real-world conditions:

- Viewing angle and distance
- Motion and vehicle speed
- Potential obstructions
- Differences across asset types (e.g., containers vs. chassis)

For recommended mounting heights, orientation, and speed control, see the Camera Installation Requirements and Guidelines. Note that the camera must meet the video specifications SiteTrax.io requires for accurate OCR — see SiteTrax.io API — Input (Video) for resolution, frame rate, lens, and GPS-encoding requirements.

2. Storage and Data Flow

Agree storage ownership, access, retention, costs and the upload destination before deployment. Provider-specific configuration is in the cloud storage provider section. Customer-owned storage alone does not establish customer-cloud hosting for the application or analytics.

3. Remote Management and Access

- Confirm whether your camera offers a remote management interface the SiteTrax.io team can access for configuration, health monitoring, and troubleshooting.
- Decide whether management will stay with your team or the camera manufacturer.
- Where SiteTrax.io cannot manage the device directly, you will handle firmware/application upgrades and apply the configuration changes SiteTrax.io recommends.

4. Operating Conditions

- Available bandwidth at the site
- Performance at night and in low-light conditions
- Lighting quality — a key factor for OCR and computer vision accuracy (plan lighting per the installation guidelines)

Upload and integration setup

Use the dedicated storage provider section for the documented camera ingestion path, upload folder, access setup and optional event notifications. Confirm the project-specific values with SiteTrax.io. After setup, capture one known asset and verify the resulting identifier, timestamp, project and image in the application.

Who Is Responsible for What

This summary helps both you and the SiteTrax.io team understand where responsibilities land in a BYOC deployment.

SiteTrax.io is responsible for:

- Video ingestion from the agreed storage destination and creating structured asset observations (see API — Input (Video))
- Motion / object detection tuning
- Camera tuning guidance for day and night operation
- Delivery of processed data and access to asset observations via the SiteTrax.io Intelligence

You (the customer) are responsible for:

- Site infrastructure (power and connectivity)
- Camera maintenance (lens cleaning, orientation, power, etc)
- Firmware/application upgrades, or providing remote access for them
- Ownership of any customer-provided storage, including defining your own data retention policy
- The final destination of processed data in your downstream systems (e.g., YMS, WMS, TMS — see Organization Configuration)

Need Additional Assistance?

These criteria provide a foundation for evaluating and deploying your own camera with SiteTrax.io Gate. Site-specific variables may affect performance and integration. For help with sign-up,

establishing a project, camera selection, storage setup and access, or integration planning, submit a support ticket via the SiteTrax.io support page or reach out to your SiteTrax.io account representative.

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