



Crane Camera System

Getting ready for an Installation

Introduction

Prior to the installation of a Crane Camera System, please read and agree on the following points, and provide the requested pieces of information:

Project analysis and user account

For Pix4D to define the project configuration and pricing, the customer needs to provide:

- A **top view** of the site, containing the location of the cranes.
- An indication of the **area of interest** that should be covered by the cameras.
- A **side view**, containing the **elevations** of the buildings and cranes.
- The crane model and configuration (tower elevation, jib length).

The customer will need to create a new Pix4D Cloud User Account that will be associated with the project:

- Visit <https://account.pix4d.com/signup> and sign-up for a free trial account (read the T&C!)

Connectivity

The Crane Cameras use the 4G network to connect to Pix4D Cloud. SIM cards and data plans are to be provided by the customer, who is in charge of the following:

- Provide one micro-SIM card per camera. The cards must be available before the installation day.
- Choose a 4G carrier that offers good coverage in the construction site.
- Choose a **dataplan of at least 17GB** (better unlimited) per SIM, per month. Make sure that the plan is active in all SIMs by the day of the installation.
- Disable the PIN security lock in all SIMs
- Inform Pix4D of the following Access Point parameters, that can be obtained from the carrier:
- Carrier name
 - APN name
 - APN username (if applicable)
 - APN password (if applicable)



Power

The cameras work within the range of **80 to 240 VAC**. They need to be connected to the **crane power supply**, typically accessible through a switch panel in the cabin of the crane. The customer is in charge of the following:

- Choose a **power source** that meets these two requirements (ideally):
 1. be always on, in normal conditions
 2. be easy to switch off if a reset is needed
- Provide enough **extension power** cable to cover the distance between each camera on the jib and the power source in the crane cabin.
- Provide **weatherproof plugs or junction boxes** to connect the cameras to the extension power cable in the jib.
- Have a crane technician install the extension power cable along the jib, and make all the electrical connections.

WARNING: The power switch must be able to provide at least 0.5A AC per Crane Camera.

Place and timing

To proceed with the shipment, the customer needs to provide the following information:

- Billing address
- Shipping address
- Name and **telephone** of the person that is to receive the parcel

Once the cameras are shipped, the transit time is around one week, but **delivery might be delayed if the parcel is retained at customs**. In that case, the courier will typically contact the receiver for any additional document or duty needed (hence the importance of providing a person of contact and telephone). Satisfying any such requirement is the responsibility of the customer.

The installation of each camera by a crane technician typically requires **around one hour** (mounting the bracket on the jib, running the extension cable, making the electrical connections). During this time the crane will have to remain blocked, which should be taken into account in the construction site daily schedule.

