

intralox[®]



**REPLACEMENT
ISC CAM**

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INTRODUCTION

INTENT OF THE ISC CAM REPLACEMENT MANUAL

The purpose of this document is to outline the operations required to replace an Intralox® Smart Carryway (ISC) Carryway Automation Module (CAM) on Intralox equipment. Experienced personnel must perform these procedures. The procedures take approximately 30 minutes to complete.

SUPPORT DOCUMENTS

Gather the following support documents before starting the ISC CAM replacement.

Mechanical Drawing: The drawings provide the Intralox equipment dimensions and identify component positions.

Additional support documents are also required. See our [ISC Setup](#) page on the Intralox website for the following support documents:

- ISC CAM Electrical Schematics

PREPARATION

1. Gather the electric schematics, interlocks files and Virtual HMI (vHMI) instructions. Customers can download those files by scanning the QR code on the ISC CAM, or they can be found on the ISC CAM web page: [ISC Setup](#).



Figure 1: ISC CAM

2. Make sure the ISC CAM is powered on.
3. Connect the network cable from your laptop to a free ethernet port on the ISC CAM module. If no port is available, find another connection point available in the line and use it to establish communication with the ISC CAM.



Figure 2: Network cable connection

4. Use the vHMI to export the application and setting files from the installed ISC CAM. If it is not possible to access the ISC CAM, retrieve the application and setting files from the equipment technical file or contact Intralox Customer Service.
 - a. Use a network software, like the ISC Service Tool (available on the ISC webpage) or equivalent, to identify the current IP address set on the ISC CAM. Copy that IP address. You may also contact the Intralox Control Engineering department to identify the ISC CAM IP address.
 - b. Open a web browser and paste the current IP address in the search bar to access the vHMI.
 - c. Take a screenshot of the current vHMI screen. The screenshot will be used later, in the Configure ISC CAM section, to confirm all parameters were correctly copied.

- d. Go to the vHMI SETTINGS page and export the <Application File> (.apl). This application file contains all the specific parameters for your installation. Save that file to your computer as ISCCAM_Backup01.

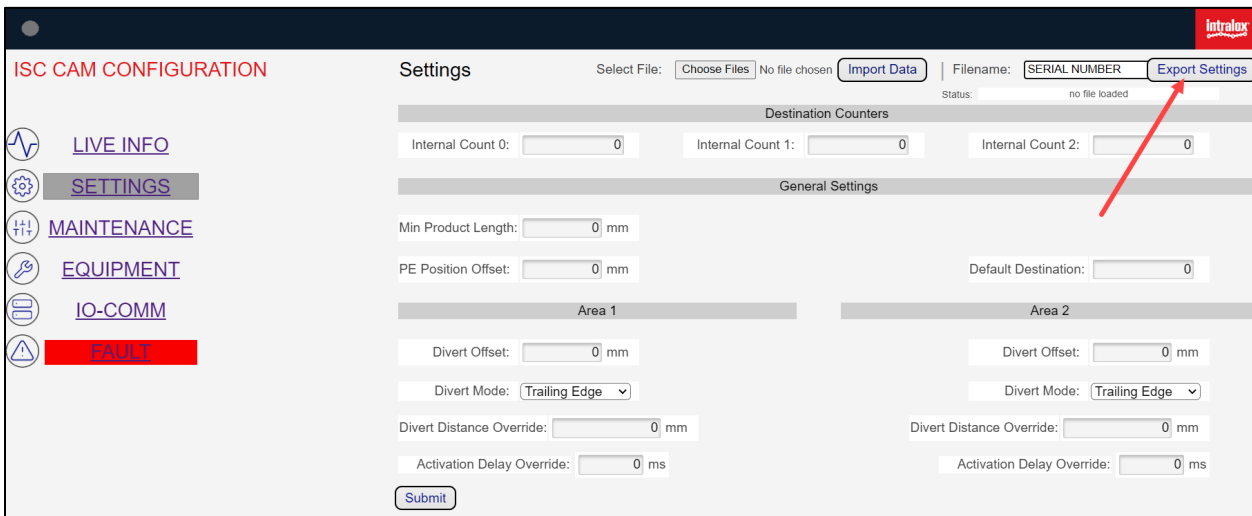


Figure 3: Export files

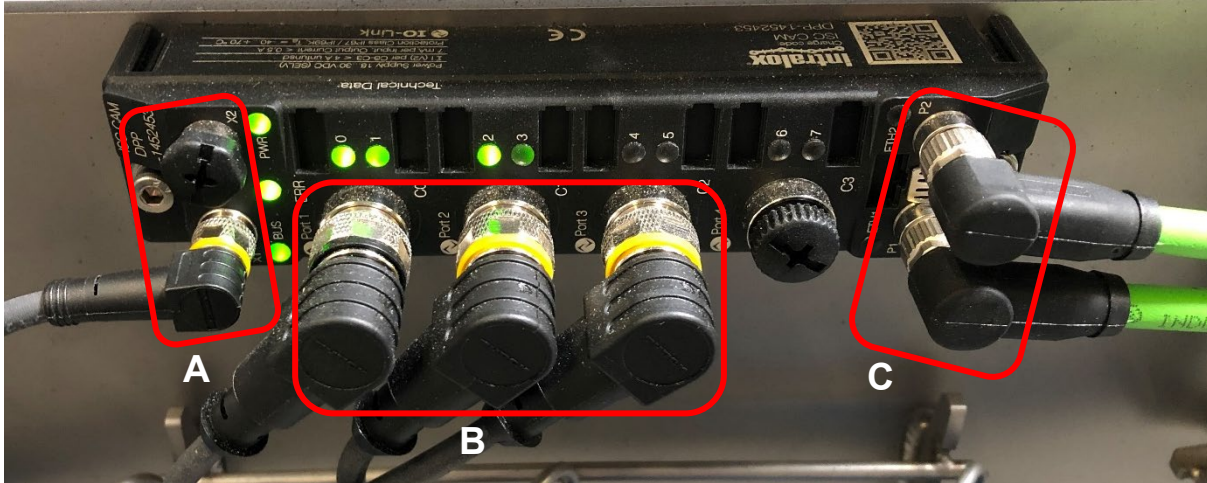
HARDWARE REMOVAL

1. Make sure that the ISC CAM is powered down.



Lockout/tagout ALL energy sources before servicing equipment.

2. Disconnect all cables from the ISC CAM:
 - a. Power port
 - b. C0 to C3 ports
 - c. Network connection ports



- A Power port
- B C0 to C3 ports
- C Network connection ports

Figure 4: Disconnect all cables

3. Remove the ISC CAM by removing the two screws on either end of the module.



Figure 5: Screw locations

MECHANICAL INSTALLATION

Mount the new ISC CAM on the conveyor using the following steps:

1. Install the ISC CAM on the side panel.

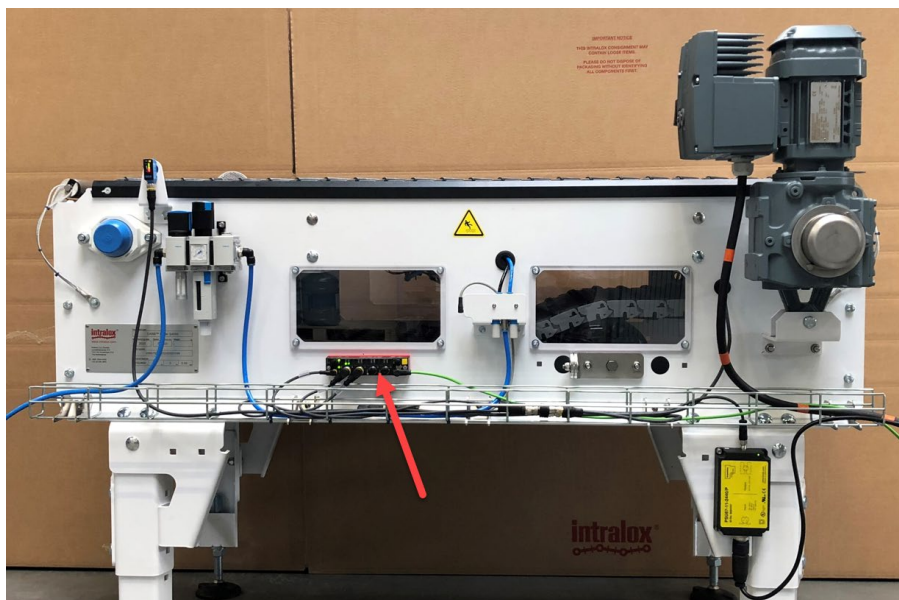


Figure 6: Install ISC CAM to side panel

2. Connect the cables to the same ports they were removed from. Refer to the electrical schematics provided for your specific conveyor.
 - a. All cables are color coded, as specified in the electrical schematics, to ensure correct connections. Some have colored rings on connectors and others have colored cables (e.g., green network cables).
 - b. Cable connectors must be torqued properly to ensure they do not disconnect during production and to ensure proper IP rating. Refer to ISC electrical schematics for proper torque values.
 - c. Install dust caps to protect any connectors that are not used.
3. Connect all cables to the ISC CAM.



Figure 7: Cable connections and color coding

4. Validate all cables are mounted correctly by ensuring that all LEDs flash with a green light. If any LED is red, use the troubleshooting manual to understand and resolve the issue.

CONFIGURE ISC CAM

Import and set up the configuration files in the new component.

1. Connect the power cable to the new ISC CAM and connect the laptop to the ISC CAM with the network cable.



Figure 8: Cable connections

- a. Set the IP address, which the ISC CAM device has allocated in the line network, using the same network software.
- b. Access the vHMI by entering the IP address in a web browser on the laptop.
- c. Import two ISC CAM files in the following sequence:
 - i. <Binary File> (.bin), delivered by Intralox. Ensure the serial number displayed on the ISC CAM vHMI matches the serial number on the DPE type plate.
 - ii. <Application File> (.apl). If possible, import the application file you saved earlier (ISCCAM_Backup01) from the previous ISC CAM. If not possible, retrieve the latest application file from the DPE Technical File.
- d. **Reboot/cycle power** for the ISC CAM.
- e. Compare the vHMI screenshot you took previously, to the new vHMI display, to confirm that all the parameters were correctly copied onto the new ISC CAM.

NETWORK INTEGRATION

Incorporate the new ISC CAM into the network.

Establish communication between the ISC CAM and the parent device by following the Network Setup procedures in the ISC CAM Commissioning Guideline.

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