

PANEL SUBSYSTEM CAMERA

1. Description

Controls cameras for product identification, sorting, and tracking.

2. Functions

- Captures images for barcode reading and product recognition.
- Sends data to the sorting system.

3. I/O and Signals

Signal Name	Type	Description	Panel
CAMERA_TRIGGER_CMD	DO	Activate camera for scanning	PANEL_CONTROL_RIO
CAMERA_STATUS_FB	DI	Camera operational status	PANEL_CONTROL_RIO

4. Interlocks & Safety

- Camera operation halted if product not in proper position.

5. Dependencies

- Relies on PHOTO_EYE_INDUCT for item detection and alignment.

6. Alarms

Alarm ID	Condition	Message
A_CAMERA_01	Camera fault	"Camera Error"

7. HMI / Operator Interaction

- Camera status display on HMI.
- Ability to test and configure camera settings.