



P&P Optica

ABOUT PPO

P&P Optica (PPO) At a Glance

Improve product quality and safety, keep operations running smoothly and lower operating costs with PPO.

PPO is transforming the food industry through technology. We work with food processors to detect foreign materials and assess food quality. Our mission is to help food producers make safer, higher-quality food while addressing one of the biggest contributors to greenhouse gas emissions: food waste.

Tap into our expertise to fuel your success

SPECTROSCOPY

- ✓ 25 yrs experience in developing spectroscopy solutions for multiple industries.
- ✓ Decades of expertise in reducing noise in optical systems.
- ✓ Transmission Spectrometer Design (patented).

SENSORS

- ✓ PPO Smart Imaging Systems reliably operate in-line in real-time, in the harsh environments of meat processing plants.
- ✓ PPO uses both traditional vision cameras and NIR (near-infrared) detectors.

IMAGE PROCESSING

- ✓ Pixel-by-pixel inspection of meat products.
- ✓ 16 million decisions per minute, 20 TB of data each day.
- ✓ Down to 1mm resolution at 80 feet per minute on a 30" belt.

DATA & INSIGHTS

- ✓ Predictive and prescriptive analytics drive improved decision-making.
- ✓ Detection and measurement AI models on spectral/imaging data are all developed in-house.



PPO's team of 50+ employees is based in the tech hub of Waterloo, Canada and across the U.S. Our team's expertise spans many industries, including food processing, health care, aerospace, and enterprise technology (hardware and software).

See how PPO can improve quality, safety and peace of mind in your operation.
sales@ppo.ca | 1-800-706-3811

Get a proven automated solution to take control of food safety and quality inspection

PPO's Smart Imaging System combines hyperspectral imaging, artificial intelligence, machine learning and data analytics software to find a variety of low-density foreign materials in your product stream:

- Rubber glove
- Wood
- Cardboard
- Blue combo liner
- White polyethylene
- White polypropylene
- Blue acetal
- Blue thermoplastic
- Cotton glove
- And more

The Smart Imaging System also assesses quality measures like composition, tenderness and freshness.

Finally, it layers in real-time data you can act on to simplify reporting, boost quality and streamline production.



Find and reject contaminants



PPO's Smart Imaging System detects and rejects foreign materials no other solution can, down to very small sizes.

PPO's system can also detect and remove foreign materials that haven't previously been detected in your plant.

Continuously measure quality



PPO measures the chemical composition of every product piece: fat, lean, moisture, pH and more – without lab tests or offline measurements.

It can also identify myopathies like woody breast and PSE/DFD in your products.

Optimize plant efficiency

Incident Report					
Ref	1477941	Date	2022-07-25	Time	10:21:37 A
Size (mm)	4	Lot	unknown	Location	PPO
Type	wood	Resolution			
Notes					
<input type="button" value="Submit"/> <input type="button" value="Reset"/>					
Date	Time	Lot	Location	Material Type	
7/25/2022	10:41:54AM	unknown	PPO	acetal-be	
7/25/2022	10:41:54AM	unknown	PPO	concrete	

PPO collects and processes information about each piece of your product.

PPO Insights gives you real-time information about your processes, suppliers, products and more.

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