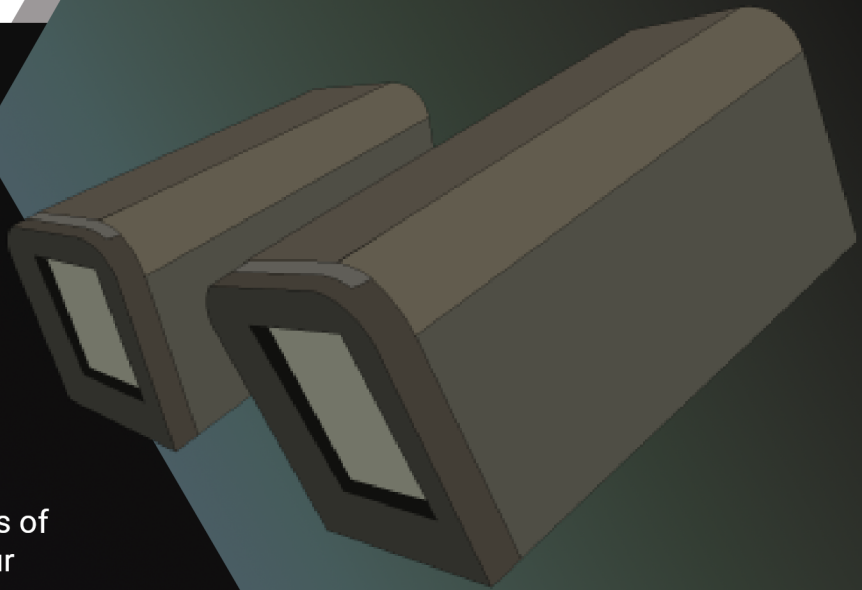# TOOL TRACKER

WHAT WOULD YOU LIKE TO TRACK?

Whether it's following a nutrunner in a sequence, a rivet gun in a pattern, or a powered screw driver installing a series of hardware, ToolTracker provides for your error proofing needs

WHAT IS IT?

Designed to support error proofing of nutrunner fastening sequences. Tool Tracker delivers unmatched 3D position accuracy at a great price.

Flexibility

It can be adapted to production lines, repair bays or stand alone stations.

Ease of Use

Tool Tracker allows you to create additional zones by simply placing the tool in the desired location and clicking a mouse.

Freedom of Motion

Fixed-mounted cameras do the tracking so no physical connection is needed to the tool. The targets are passive and do not require power while providing up to 6 degrees of Freedom.

Low Cost of Ownership

The ToolTracker system integrates cameras, lighting and computer in an easy to maintain installation

Core Competancies

- Tracks any handheld tool in 3D
- Targets Passive (Retro Reflective)
- Vision-based tracking system
- Poka-yoke changeover
- Large field of view
- Infrared cameras
- Webpage interface

TOOL TRACKER

DESCRIPTION

Designed for error proofing in a fastening sequence. This simple to install and teach vision appliance mounts above the workstation and ties into your PLC via Factory Floor Protocol Communication. It's easy to teach by simply placing the tool (with affixed targets) where you want to have a fastening event and clicking a mouse to create a work zone, then you simply move to where the next work zone needs to be in the sequence. While in production, the PLC enables or disables the tool depending on if the tool is present in the correct work zone, according to the desired fastening sequence.

CHARACTERISTICS

Poka-yoke/ Mistake proofing

ToolTracker (along with a PLC) creates an in-process poka-yoke technique. Enabling tools, only when they are in the correct location allows the operator to complete the correct work sequence

Lighting

ToolTracker uses non-visible infrared lighting, for a robust system that is not affected by ambient lighting and comfortable for the operators

Targets

ToolTracker uses passive retro-reflective targets that require no power

Scalable

Designed for infinite scalability, multiple cameras can be placed strategically to avoid obstructions and increase the working area

Field of View

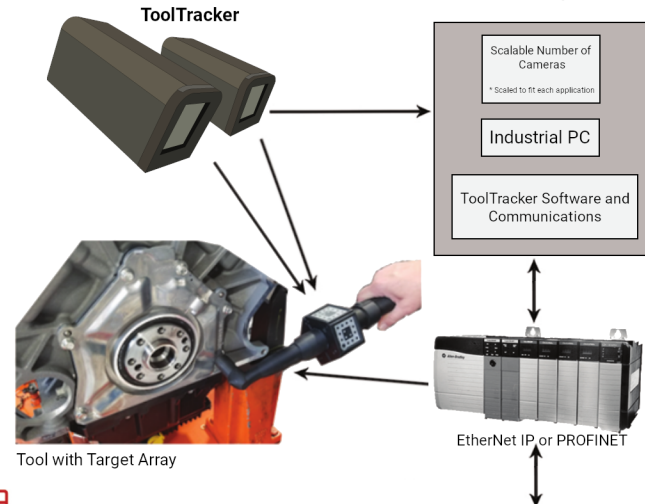ToolTracker has a configurable field of view that can be custom sized to fit any application

Architecture / Communication

ToolTracker

Module Components

Scalable Number of Cameras
* Scaled to fit each application

Industrial PC

ToolTracker Software and Communications

Tool with Target Array

EtherNet IP or PROFINET
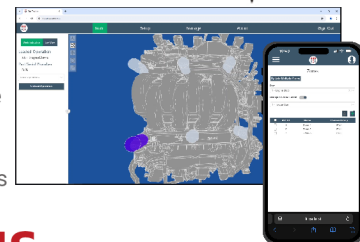
Webpage Interface

ToolTracker allows you to configure every setting through a web browser on any network connected device, including tablets and phones

depth

width

length

		Wide	Standard	Focused	Precision
Field of View	Length	3100 mm	2065 mm	1550 mm	985 mm
	Width	2450 mm	1630 mm	1225 mm	780 mm
	Depth	2300 mm	850 mm	850 mm	840 mm
	Accuracy	± 1 mm	± 0.8 mm	± 0.6 mm	± 0.4 mm

* Specifications are based on a single camera with a working distance of 2 meters
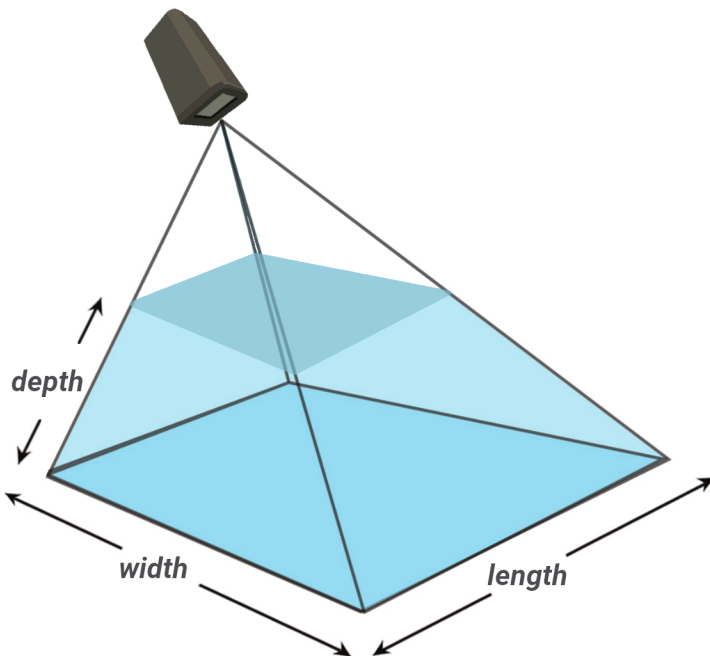
SPECIFICATIONS

Data Interface: Gigabit Ethernet, compatible with Fast Ethernet
Power Supply: PoE @ 24VDC
Power Consumption: Typ. 10.4W @ 24VDC
*Specifications listed per camera

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