EYE T+ INSPECT

INSPECTION THAT WORKS

INTUITIVE EFFICIENT OBJECTIVE

Robotic visual inspection combining 3D and 2D vision

EYE T+

www.eyetplus.eu

T+Robotics

www.it-robotics.it

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INSPECTION THAT WORKS

INTUITIVE EFFICIENT OBJECTIVE
Robotic visual inspection combining 3D and 2D vision

- **Intuitive**
  inspection set-up with Real-Time Visual Feedback

- **Efficient**
  robust and accurate acquisition combining 3D and 2D vision technologies

- **Objective**
  and automatic visual inspection powered by easy to use software tools

EASY TO INSTALL AND MAINTAIN
- **Plug & Produce** within hours in 4 easy steps
- **Pre-calibrated sensor** ready for commissioning
- **Sturdy device** with low maintenance requirements
- **Designed to endure** heavy environments

INCREASE EFFICIENCY
- **Return of investment** typically in less than one year
- **Optimize production** with automatic early identification of defective products
- **Reduce set-up time** thanks to Real-Time Visual Feedback
- **Monitor** production performances collecting detailed statistics

FLEXIBLE AND INTEGRATED
- **Standard communication interfaces** compatible with every robot
- **Combines** robust 3D vision to inspect product shape with fast 2D vision to inspect product surface
- **Suitable** for many industrial sectors
- **Industry 4.0 ready**, to be connected to factory IT infrastructure

PLUG & PRODUCE

1 Install
Install EyeT+ Inspect in a fixed position or on the robot arm

2 Integrate
Make EyeT+ Inspect communicate with the robot

3 Set-up
Use the Smart Inspect 3D software to set-up the product with Real-Time Visual Feedback

4 Produce
Monitor production status and collect detailed statistics

INSPECTION IN 3 EASY STEPS

1 Set-up
Define inspection cycle interacting with the robot using Real-Time Visual Feedback

2 Learn
Set the reference model executing the automatic learning procedure

3 Inspect
Run the inspection cycle to remove not compliant products from production line

- **Real-Time Visual Feedback**
  Define inspection robot path easily with real-time 3D acquisition feedback thanks to device direct connection to robot controller

SMART INSPECT 3D
The software solution to configure the system and collect detailed statistics about production

- **Integrated**
  Totally integrated with EyeT+ Inspect
- **Easy**
  Simple new product definition interacting with the robot
- **Intuitive**
  Operator-friendly interface to diagnose and configure the system
- **Flexible**
  Manage many application scenarios

Contains: Software and user manual, USB hardware license key.

FIELD OF VIEW (W x H)		EyeT+ Inspect PT-20		EyeT+ Inspect PT-15		EyeT+ Inspect PT-10	
		PT-20-600	PT-20-300	PT-15-600	PT-15-300	PT-10-600	PT-10-300
FIELD OF VIEW (W x H)	STANDARD	600 x 200	300 x 100	600 x 200	300 x 100	600 x 300	300 x 150
	EXTENDED RANGE	600 x 600	300 x 300	600 x 600	300 x 300	600 x 600	300 x 300
WORKING DISTANCE (WD)		640	320	640	320	780	390
NUMBER OF 3D POINTS		> 3.000.000 points/sec		> 1.500.000 points/sec		> 1.000.000 points/sec	
LATERAL POINT DISTANCE		0,30 - 0,39	0,15 - 0,20	0,30 - 0,39	0,15 - 0,20	0,47 - 0,65	0,23 - 0,33
DEPTH PRECISION		0,15 - 0,20	0,07 - 0,10	0,15 - 0,20	0,07 - 0,10	0,24 - 0,33	0,12 - 0,17
2D ILLUMINATION		Ring LED diffuse illumination. Controls up to 4 external illuminators.					
INTERFACE		TCP/IP, Field buses (Devicenet, Profibus, CANOpen, EthernetIP, EtherCAT, Profinet, Modbus/TCP, Powerlink), ROS, Siemens Snap 7					