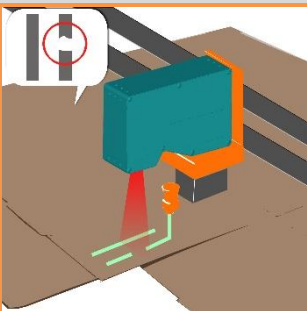


Product Data Sheet

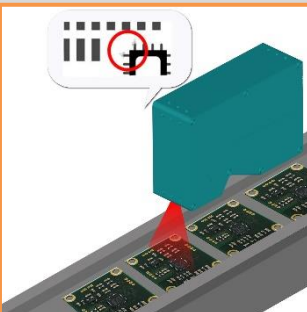
APPLICATIONS



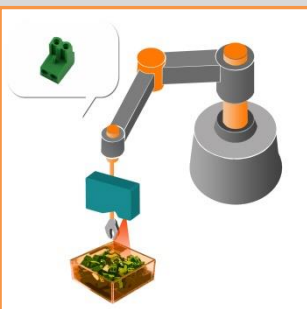
weld seam inspection



Glue inspection



Pin inspection



Bin-Picking

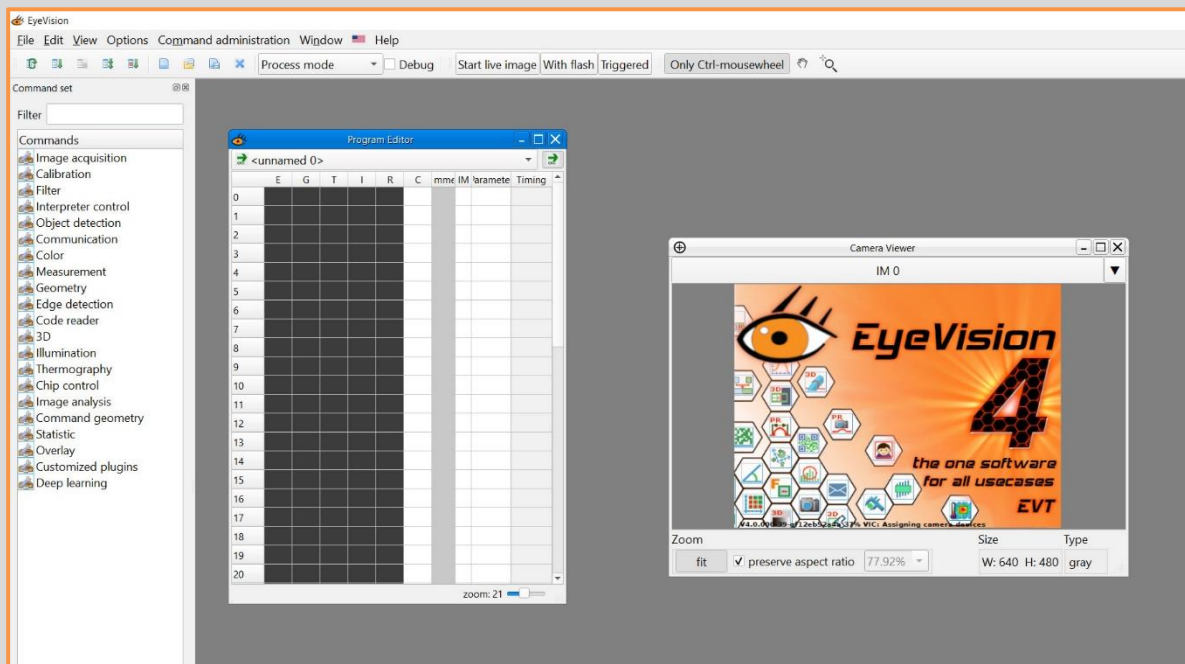


The Vision Software for all Use Cases

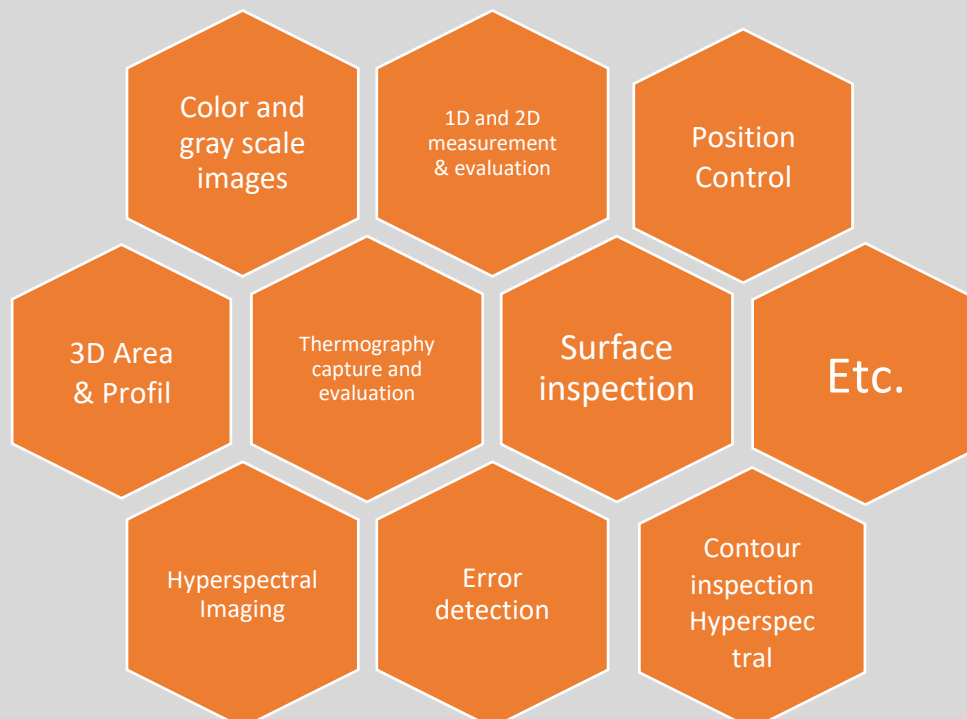
EyeVision 4 the machine vision software for solutions and all kind of applications, such as 1, 2D, 3D, thermography and hyperspectral. EyeVision 4 is not depending on hardware. A flexible concept allows all kind of camera vendors or interfaces either Standard USB, GigE, FireWire, CoaXPress or Camera Link it works!

This property together with the outstandingly large selection of different inspection demands makes the EyeVision 4 extremely universally applicable. The flexible graphical configurable command set allows to solve nearly all kind of Machine Vision tasks only with a mouse click. Time to market is the imperative of Eye Vision 4 grants you 100% inspection of your products.

EyeVision 4: Our software - reliable as always with even more functions

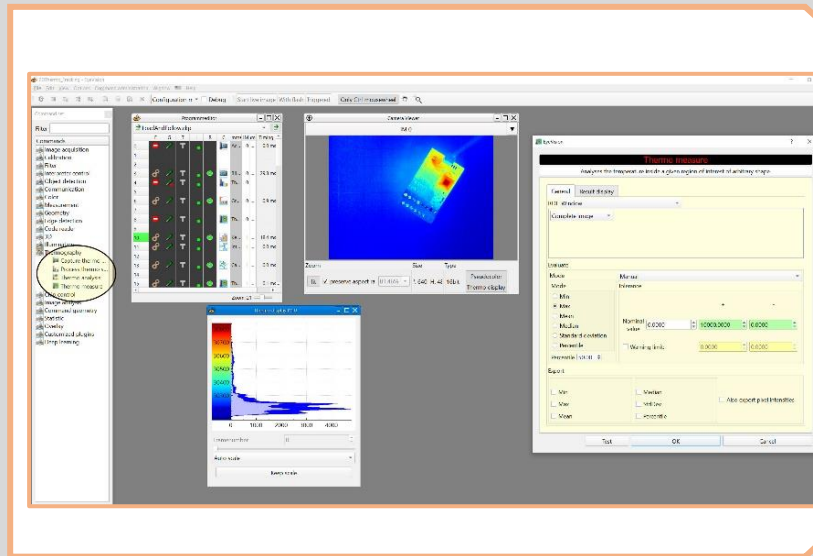


EyeVision 4 areas of application.

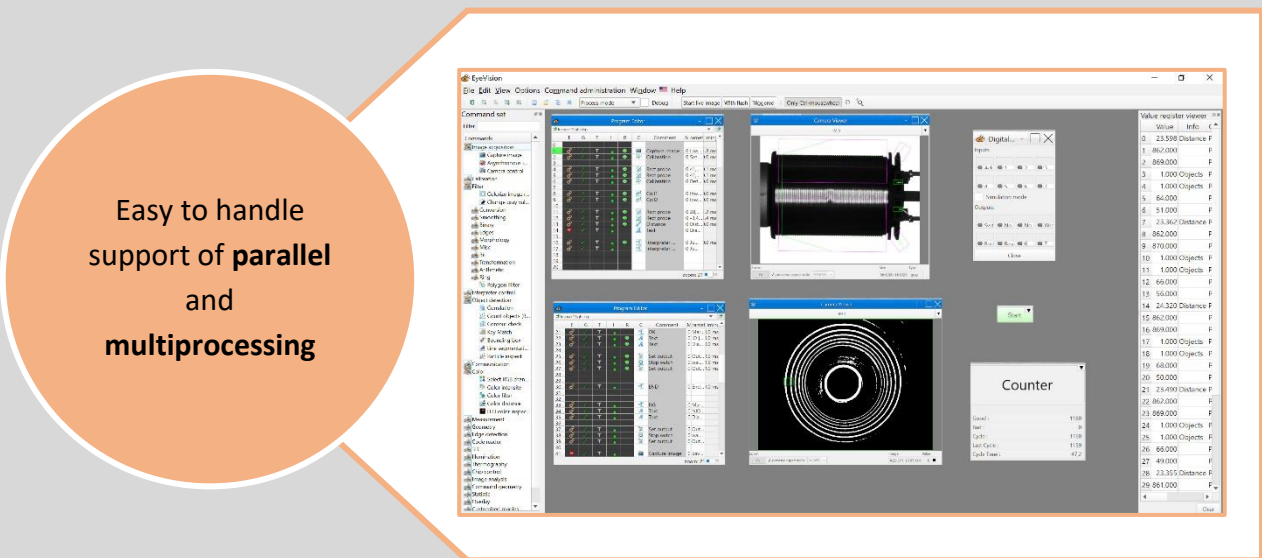


New Features of EyeVision 4

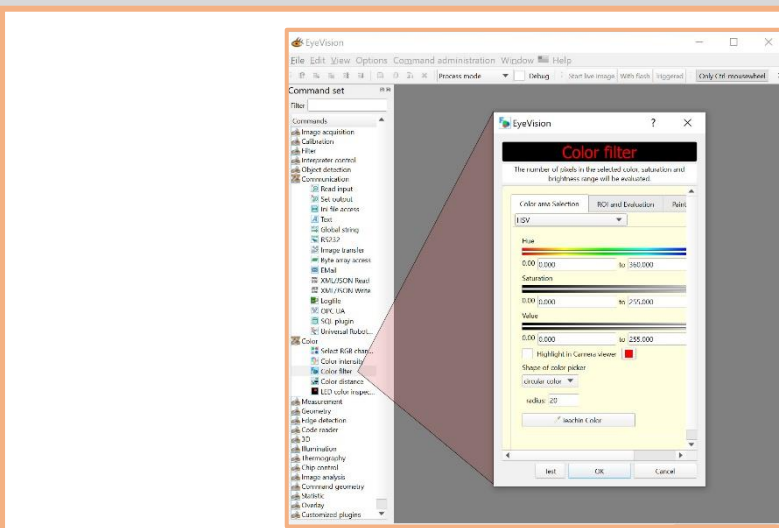
The newest version of our software comes with more than 200 new features:



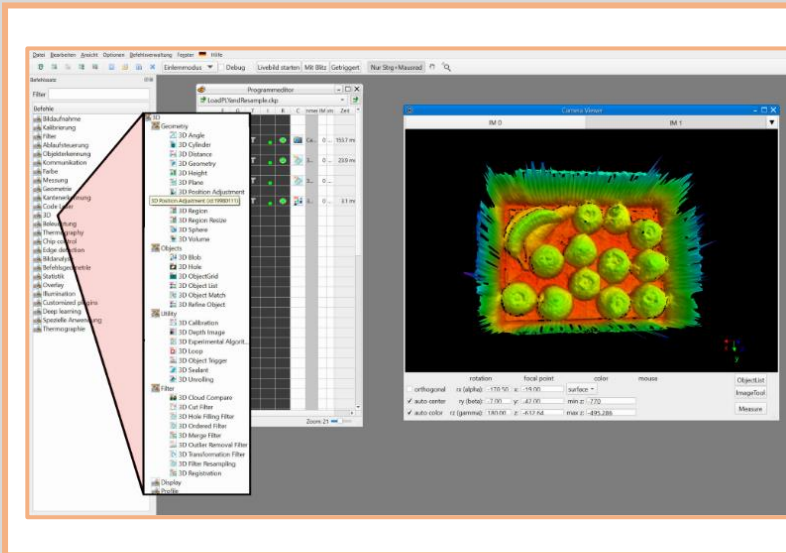
Advanced **Thermal Vision** for high speed Impulse and LockIn Toolset based on Eye Thermo Controller and many new thermal imaging commands



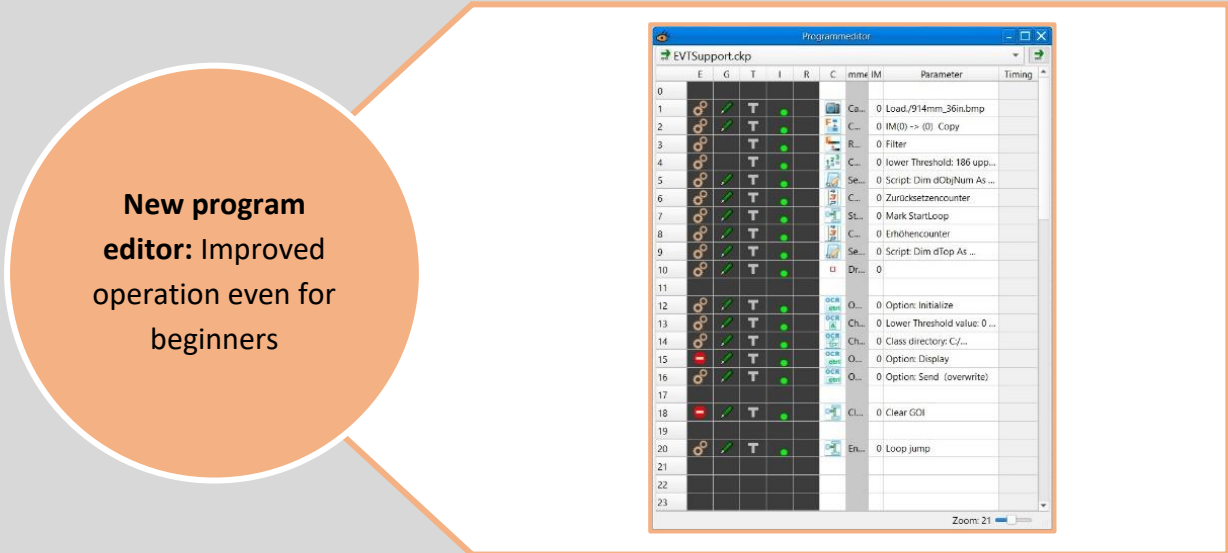
Easy to handle support of **parallel and multiprocessing**



New **color toolset** with full LAB Support for discriminating of 16 million colors

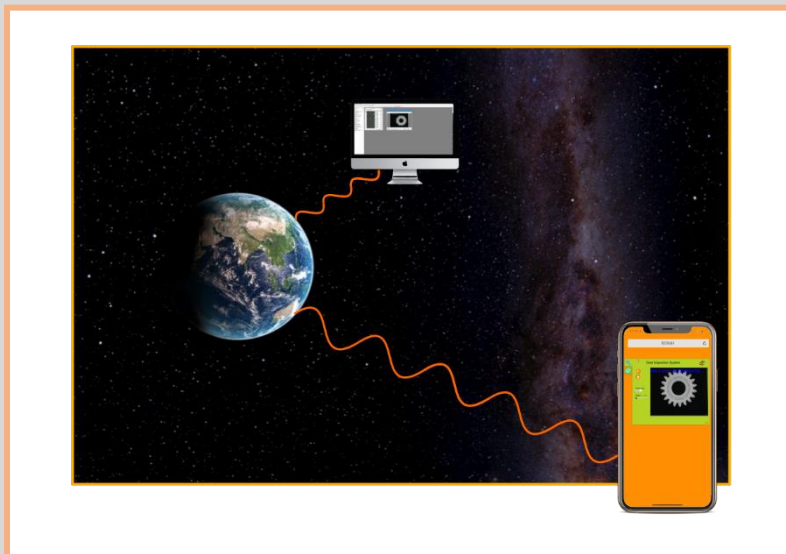


More powerful **3D** functions for point cloud, profile and depth image

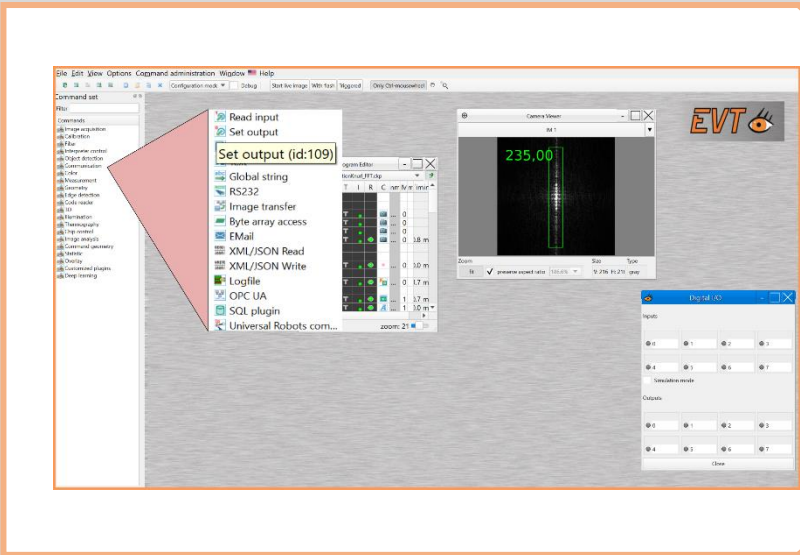
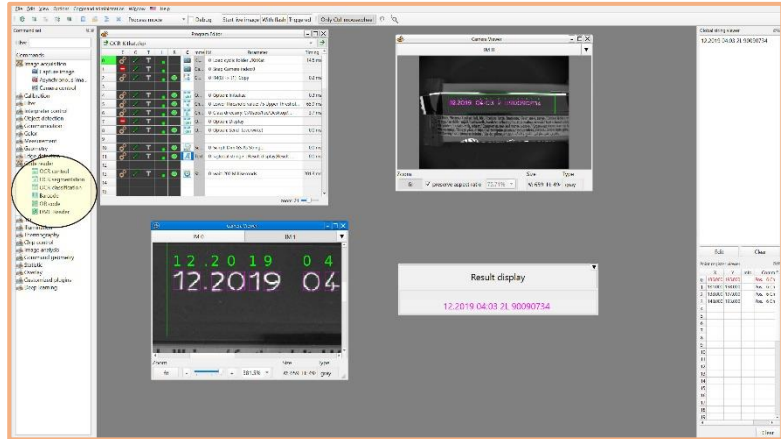


New program editor: Improved operation even for beginners

Webserver for easy program access from everywhere

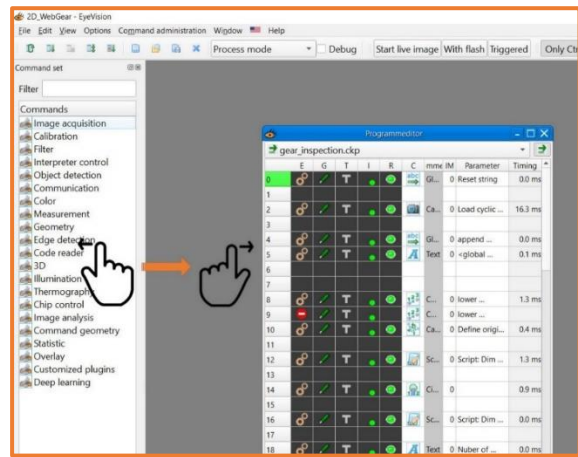


Advanced feature toolset for **reading Barcode, DMC, QR and OCR/OCV**

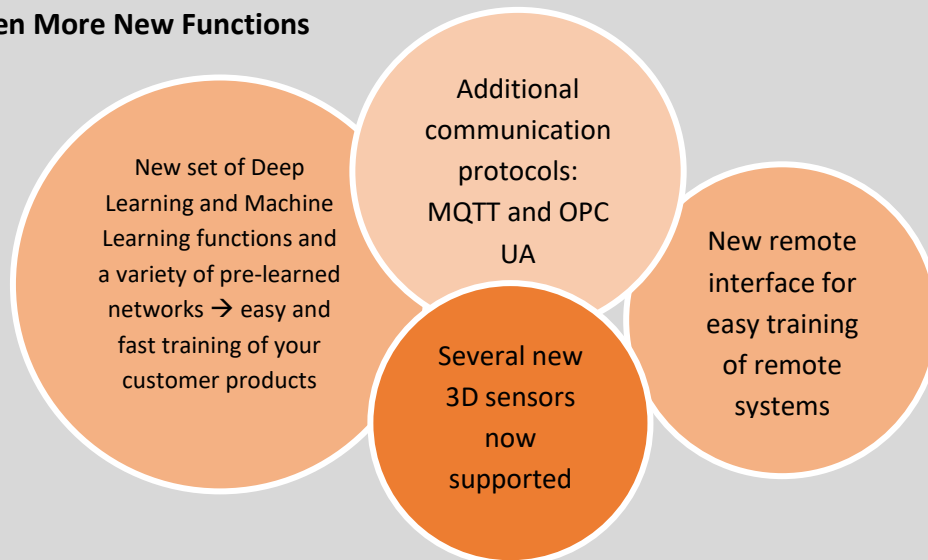


Completely reworked **communication** program settings

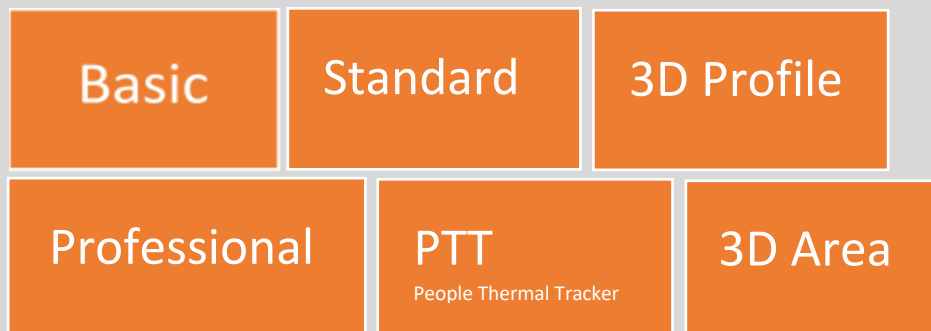
Easy programming with **Drag & Drop**



Even More New Functions



5 EyeVision Software Packages - individually extendable



The packages contain different command sets. But the extendibility of the EyeVision software are unlimited: You can add any command any time to any package.

Additionally, there are special command sets such as:

- ChipControl (for the semiconductor industry)
- Commands for color inspection
- Code Reader commands

Those can also be added to each package. Individually, depending on application and demand.

Additionally, the EyeVision is available on the smart camera series EyeCheck and the vision sensor series EyeSens.

System requirements, interfaces, use:

Operation System	Windows 10, Linux (Ubuntu/Debian), Embedded Systems: ARM (x86 64 Bit)
Required CPU (Min.)	x86: 1 GHz or faster (Intel ATOM, AMD E350 and faster CPU's) ARM : 0,8 GHz Zynq and faster ; Nvidia Xavier
Required RAM	2D: Min. 4G recommended 3D: 8GB or 16GB recommended
Required hard drive capacity	32 GByte for GUI Systems, 8 MByte for non GUI Systems
Screen resolution (Min.)	Min 1680 x 1050 Pixel*) *) smaller resolution possible with restrictions
Process integration/ communication:	Variable communication models Communication partner: PLC, robot, external control software
Communication protocols*:	TCP/IP UDP, Profinet, Ethernet/IP, Modbus, Beckhoff TwinCAT, EtherCAT, OPC UA, MQTT, Profibus DP board, PLC Link, XML / JSON, RS 232 (*depending on PC and operating system)
Supported hardware	Cameras with following interface: <ul style="list-style-type: none"> • USB 2.0, 3.0 • GigE • GenICam compatible • FireWire • Camera Link • RS232 • CoaXPress • Analogue
SDK	SDK for command plugins and VIC image acquisition available Runtime integration, C+; C++; Phyton and others
Image processing:	Object recognition, DMC, QR, Barcode, OCR/OCV, Measuring, Filtering, Machine learning, Deep learning; Thermo, Hyperspectral
3D Area processing:	Geometry measuring, Object recognition, Pick&Place, Preprocessing, Matching
3D Profile processing:	Capture, Matching, Position, Geometry

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