compar ✕

excellence in machine vision & robotics

PC BASED VISION SYSTEM

VISION*expert*® PC based image processing systems - from the "single camera" inspection station to the powerful "multi-camera" vision solution.

COST EFFECTIVE VISION SYSTEMS

Advantages over solutions with multiple smart cameras include a nearly infinite selection of camera types and resolutions, PLC interface availability, and the free choice of suitable image processing libraries.
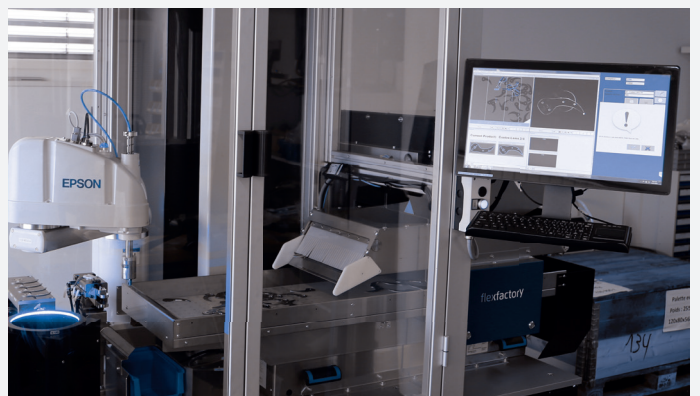

21 CFR PART 11 COMPLIANT

Including audit trail, parameter change tracking, support of local or domain integrated user access control, and clear product management.

ZERO ERROR STRATEGY

Minimizes the cost of production defects through continuous inspection.

VISION*expert*® PC based image processing systems
from the "single camera" inspection station
to the powerful "multi-camera" vision solution.

Compar vision systems are geared to the requirements of the full range of image processing tasks. From small-footprint local inspection solutions to multi-camera high-performance systems, they are characterized by robustness, flexibility, and a good price-performance ratio. The basis of our machine vision solution is a PC based system with a Windows operating system and our VISION*expert*® software suite. Compar vision systems help to implement the zero error strategy on production machines.

Criteria / system models	Lite	Standard	Performance
Camera numbers	1	up to 4	up to 12
Camera type	area cameras	area, line scan or 3D cameras	area, line scan or 3D cameras
Camera interface	GigE, USB	GigE, USB, CameraLink	all standards
Image processing functions			
Localization, measurement	x	x	x
Assembly inspection	x	x	x
OCR /OCV code reading	x	x	x
Print control	x	x	x
Print control from CAD template		x	x
2D / 3D measurement	x	x	x
3D triangulation	x	x	x
3D stereo vision / interferometry		x	x
Solder inspection		x	x
Conveyor tracking		x	x
X-Ray		x	x
Surface inspection		x	x
Deep learning			x
Performance	from 0.1 second / part (depending on production machine as well as test criteria)		
Image processing	VISION*expert*® PC based machine vision software		
Machine vision highlights	Teach-in mode for new products, integrated product management, production statistics, automatic image storage, fast prototyping, "dry" run mode, log files, remote maintenance, 21 CFR Part 11 compliance, audit trail, user management, multiple languages, validation support, etc.		

Option	Special and customer specific designs are also possible on request

REALIZED APPLICATIONS / EXAMPLES / MARKETS

watch making	packaging	medtech	automotive	pharma	non industrial