

Atheor

AOC reader



Machine Vision reveals fast ROI when applied to process control :

- traceability, security, production quality and image control, process supervision
- risks elimination
- handling reduced to a minimum, preserved manpower,
- minimal scraps

AOC reader as a real industrial automation is one unique approach for process control using cameras

- ➡ robust
- ➡ simple
- ➡ compact
- ➡ fast

One Added Value to your Production

Applicable on a process line as a turnkey system, AOC reader is supervising 100 % of your production quality, continuously in real time and at high speed. Running without keyboard or mouse control, AOC reader is really adapted for rough and industrial environment, friendly usable and configurable, with no need for maintenance.

Friendly usage

Menu is straightforward and intuitive using icons accessed through the touch screen. Easy to understand messages are guiding the operator for the simplest and fastest way to achieve the control.

Customized Control

AOC reader controls even on high speed processes. Included is an automatic learning system with dynamic multi configurable windows.

AOC reader reads, stores, transmits data's, controls and finds errors, triggers actions - alarms ejection - stop.

Applications

Labels printing control

Marking quality verification - date, lot n°, industrial identifications printing control
correlation between article code and lot n° from OCR identifications Bar-Code Data Matrix, reading and control of security identifications, reading of unique code and duplicates control.

Production Control

- Conformity control
- Presence control
- Positioning control

Reliability

Based on the latest proved technologies in shapes recognition, AOC reader will provide you with a constant high quality usage, with no particular survey and no maintenance.

Two autonomous boxes - central box and protected sensor module with integrated lighting - fulfil the guaranty for the protection and the security of the running system.

TECHNICAL DATAS

Console

- industrial panel PC P4 with Windows XP®
- metal case 440(L) x 310(H) x 132(P)
- VESA 75/100 with fixing on rear side
- SXGA 17" touch screen color display
- 3 opto-coupled inputs / 3 outputs
- asynchronous cameras inputs
- serial link, Ethernet
- weight 10kg
- power 100-240VAC 200W

Camera

- CCD sensor, digital output (USB, GigE)
- resolution : 2560 x 1920 (5 Megapixels)
- electronic shuttering 1 µs ... 1 ms
- real time synchronization
- waterproof case

Optics

- 8,5mm to 50mm objectives according to application

Lighting

- integrated into the camera housing or used as standalone, with high power pulsed LED's synchronized on exposure

Control speed

- up to 72 000 C/ hour
- linear speed 0 to 10 m/s
- triggering by sensor or signal

Global Control

- based on shape recognition algorithm
- control of the labels positioning and integrity after a learning process of one reference
- with tolerances on correlation, angle and position
- controls over 360°

OCR

- alphanumeric reader with learning, on every font type. Grouping number and nomenclature reference control. Anti-Mixing mode with printing quality criteria. Reading angle $\pm 15^\circ$



OCV

- printing quality control print quality after a learning process of one reference. Checks integrity, contrast, positioning, missing and excess. Reading angle $\pm 5^\circ$

Data Matrix

- 360° sturdy and fast reader with data base recording, anti-mixing mode, controls on printing quality

Bar-Code

- 360° reader mode checks the printing quality, PCR

User menu

- Drop-down menu, icons hierarchical levels access with password protection
 - **Video** : video settings, exposures-time
 - **Window**: choice of controls and definition of windows (3 per camera)
 - **Input/output**: selection and configuration of triggering modes and errors handling
 - **Format**: savings and recalls of predefined production formats
- **Process**: production mode, tolerances settings, learning from OCR
- **Character**: visualization and handling of the learning font
- **Statistics**: daily production files visualization and images from last 50 defaults

Process data's

- independent process by camera
- control time excluding image capture
 - global 60 ms
 - OCR 50 ms for 20 characters
 - OCV 200ms
 - Data Matrix bar-code 5 to 10 ms
- formats input using touch screen or code reader printed bar on Work order sheet
- option : compatibility with 21FR11 Part11



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