Enhancing Productivity and Product Quality Through Advantech's Smart Camera Solution

WebAccess/EzBuilder

GEN‹i›CAM

ADVANTECH

Enabling an Intelligent Planet

Advantech ICAM-7000 series is a fully integrated compact vision system that has been specifically designed for industrial automation. Packaged complete with application software (EzBuilder) embedded, ICAM-7000 provides an easy-to-use automated inspection system for the factory floor. ICAM-7000 vision systems are configured and monitored remotely using an Ethernet connection to a PC or factory network. An inspection can be quickly setup using a web browser. The software interface is fully equipped with a suite of vision tools and capabilities that satisfy a range of inspection needs, from positioning, identification and measuring, to verification and flaw detection.

WebAccess/EzBuilder

Smart Camera
ICAM-7000

- Up to 5.0MP resolution with advanced image preprocessing (e.g. white balance, color debayering, and denosing)
- IP67 rating ultra small form factor (93 x 63 x 40.5 mm)
- High performance multi-core processor and FPGA heterogeneous computing

Machine Vision Application Softwares
WebAccess/EzBuilder

- Intuitive GUI that does not require programming skills
- Cross-platform support, compatible with embedded systems and smart cameras
- Complies with the GenICam Standard, supports GigE Vision industrial cameras

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Smart Camera
ICAM-7000

Hardware Specification			
Image Sensor	1.2MP@54fps, Global Shutter, C-mount , Monochrone/Color 2.0MP@60fps, Global Shutter, C-mount , Monochrone/Color 5.0MP@14fps, Global Shutter, C-mount , Monochrone/Color	**Sensor Size**	1.2MP (AR0134) : 1/3" 2.0MP (EV76C570) : 1/1.8" 5.0MP (MT9P031) : 1/2.5"
Processor	INTEL E3930, Cyclone V 5CGTD5	**RAM/Storage**	4GB LPDDR4 (Single Channel) /32G eMMC
Display	DP (USB Type C Connector)	**LAN/Serial Port**	1 x 1000BASE- , 1 x RS232/422/485
USB	USB 2.0 (USB Type C Connector)	**Synchronization**	Hardware Trigger / Software Trigger / Free-run
Digital I/O	2 x Isolated Inputs, 2 x Isolated Outputs	**Lighting Control**	PWM x 1
Power Input	12-24VDC	**Dimensions**	95mm (W) x 63mm (H) x 40.5mm (D)
Environment/ Certification	0-50° C, 5Grms, CE/FCC Class A /KCC, IP67	**Software**	OS: Windows 10 IoT APP: EzBuilder HTML 5

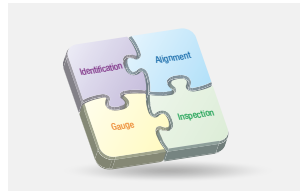# Machine Vision Application Softwares
WebAccess/EzBuilder

EzBuilder

Intuitive GUI
• Intuitive flowchart-based methodology that enables easily and quickly building and deploying machine vision applications without requiring any programming skills

Flexible Licensing Options
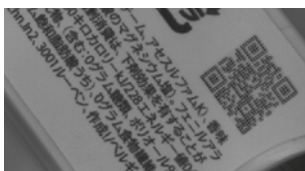• Application-oriented licensing options expedites time to market cost-effective solution

Optical Character Recognition
• Full support for text rotation (360 degrees) can learn character databases from one or multiple TrueType font files

Alignment
• Convolution and morphology geometric transformation high dynamic range image fusion rotation and scaling support

1D and 2D Code
• Decodes 1D bar code, 2D data matrix code and, QR codes, all versions, all levels error detection and correction rotation and flipping invariant

Order Information	

Smart Camera

- ICAM-7100   1.2MP Mono Smart Camera
- ICAM-7200   2.0MP Mono Smart Camera
- ICAM-7500   5.0MP Mono Smart Camera
- ICAM-7110   1.2MP Color Smart Camera
- ICAM-7210   2.0MP Color Smart Camera
- ICAM-7510   5.0MP Color Smart Camera

Solution Ready Smart Camera

- ICAM-7100-I   1.2MP Mono Smart Camera for Traceability Application
- ICAM-7100-A   1.2MP Mono Smart Camera for Vision Guidance and Pattern Match Application