

WebAccess/EzBuilder

Intuitive GUI and Configurable Machine Vision Application Software



Features

- 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-compliant cameras
- Flexible licensing options, including identification, alignment, inspection, and gauging modules, to reduce total cost of ownership
- Supports up to 8 GigE Vision cameras
- Thread-safe and multitasking vision inspection

Introduction

Advantech WebAccess/EzBuilder is a configurable GUI-based machine vision software package that facilitates building and deploying machine vision applications without any programming skills. It supports a wide range of Advantech industrial PCs, smart cameras, and embedded systems, and can be deployed on different hardware platforms without modification. Moreover, as a configurable cross-platform tool, it shortens the learning curve. With its user-friendly, flowchart-based design, WebAccess/EzBuilder provides an easy approach to system installation and project development while reducing future maintenance costs. Customers can complete their tasks easily by following three simple steps: select an image, process the image, and output the results. Moreover, WebAccess/EzBuilder provides various GUI layouts to suit customers' specific applications. WebAccess/EzBuilder is also designed to be task-oriented, meaning that users can quickly find the function they need to use. Furthermore, it is modular and offers flexible licensing options, making it the most cost-effective choice for customers seeking machine vision software solutions. With its powerful yet easy-to-use identification, alignment, inspection, and gauging tools, WebAccess/EzBuilder is suitable for a wide range of automated inspection applications aimed at tracking/tracing, present/absent decision-making, guidance, material handling, and quality assurance.



Multicamera Support

Supports up to 8 GigE Vision cameras
Simultaneous inspection of multiple objects



Cross-Platform Compatibility

EzBuilder is compatible with the VPS-3100 vision system
Easy to deploy on industrial PCs and smart cameras



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



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



QR Code

Decodes model 1 and model 2 QR codes, all versions, all levels
Error detection and correction
Rotation and flipping invariant



Inspection

Subpixel point location and edge fitting
Measurement of position, orientation, size, curvature, and distance
Geometric feature extraction

Ordering Information

Vision Software

- | | |
|----------------|-----------------------------------|
| ▪ EZB-EEV-101D | EzBuilder Identification Software |
| ▪ EZB-EEV-10AL | EzBuilder Alignment Software |
| ▪ EZB-EEV-10IN | EzBuilder Inspection Software |
| ▪ EZB-EEV-10FU | EzBuilder Full Functions Software |

Vision Platform

- | | |
|-----------------|-----------------------------|
| ▪ VPS-3100I-10A | 2-port GigE Vision platform |
|-----------------|-----------------------------|

Industrial Camera, Color

- | | | |
|---------------------|-------------|---------|
| ▪ QCAM-GC4600-007CE | 4608 x 3288 | 7 fps |
| ▪ QCAM-GC3000-018DE | 3072 x 2048 | 18 fps |
| ▪ QCAM-GC2500-014CE | 2592 x 1944 | 14 fps |
| ▪ QCAM-GC1300-060CE | 1280 x 1024 | 60 fps |
| ▪ QCAM-GC0640-120CE | 640 x 480 | 120 fps |

Industrial Camera, Monochrome

- | | | |
|---------------------|-------------|---------|
| ▪ QCAM-GM3800-007DE | 3856 x 2764 | 7 fps |
| ▪ QCAM-GM3800-010CE | 3856 x 2764 | 10 fps |
| ▪ QCAM-GM3000-018DE | 3072 x 2048 | 18 fps |
| ▪ QCAM-GM2500-020DE | 2592 x 2048 | 20 fps |
| ▪ QCAM-GM2500-014DE | 2592 x 1944 | 14 fps |
| ▪ QCAM-GM1920-040CE | 1920 x 1200 | 42 fps |
| ▪ QCAM-GM1600-060DE | 1600 x 1200 | 60 fps |
| ▪ QCAM-GM1300-060DE | 1280 x 1024 | 60 fps |
| ▪ QCAM-GM1300-030CE | 1296 x 966 | 30 fps |
| ▪ QCAM-GM1280-075DE | 1280 x 1024 | 75 fps |
| ▪ QCAM-GM0640-120DE | 640 x 480 | 120 fps |