

# V10 Vision

Machine builder and plant manufacturer can focus on the application – VELTRU offers the robots and additional technology required for system integration in Pick-and-Place.

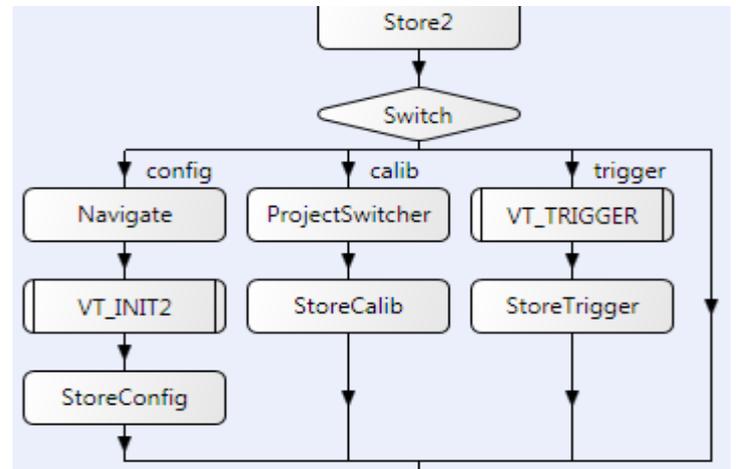
- CODESYS Soft PLC connector for Machine Vision based on Matrox Design Assistant (MDA)
- MDA Application Framework Flowchart based vision programming
- Simplified wiring (PNP)
- Visualization
- Remote Accessibility



## Options:

- Integrated LED lighting
- External PWM controlled LED lighting
- Calibration Toolkit
- Application support

The VELTRU V10 Vision Connection integrates the Matrox Design Assistant based Machine Vision into CODESYS V3 based SoftPLC controls, specifically targeted at Pick-and-Place applications. While the vision application remains on the Matrox DA platform, multiple cameras may be attached to a C10 Motion Controller running CODESYS V3 and any data can be exchanged. This allows triggering the camera from the CODESYS controller, reading the machine vision results, and also storing all configuration parameters of the machine vision program on the CODESYS application. The underlying TCP connection has automatic reconnection functionality. The Connection Box simplifies wiring by offering a 5 pin M12 connector with PNP signals.



The Calibration Project visually guides the user through every step. Several Calibration Grid sizes are available to match the actual Field of View.

VELTRU offers application support testing specific products upon request. Typical application requirements include identifying the location and orientation of products but can also include quality inspection. The VELTRU test laboratory allows efficiently testing various lighting and algorithm configurations.

The source code training application gives system integrators a jump start for fast time to market while maintaining all options for adaptation to specific market needs.

## Technical data – VELTRU V10

SoftPLC CODESYS V3  
Machine Vision Matrox Design Assistant

Communication TCP/IP  
multi camera support  
one camera to multiple robots  
automatic reconnect

### Matrox Iris GT\* camera with Connection Box

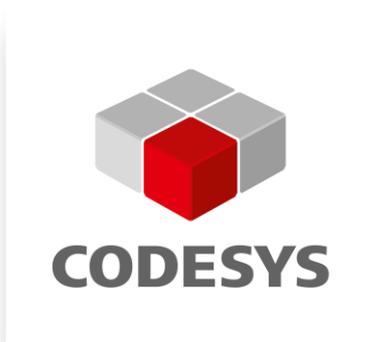
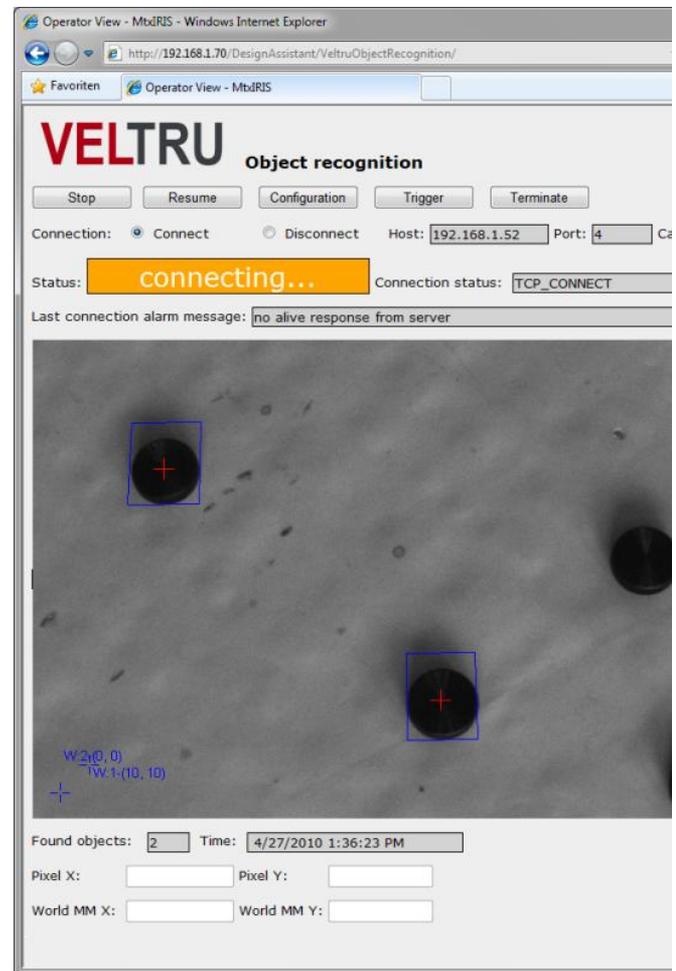
Resolution 640 x 480 to 2448 x 2050  
Type monochrome and color CCD  
CPU 1.6GHz Atom  
LED lighting 0-500mA Current Control  
PWM output  
Digital I/O's (PNP) Trigger input  
Latch output  
Lens type C-mount

Power Supply 24VDC  
Communication TCP/IP, RS232

Weight 0.7kg  
Mounting 4x M4

Operating Temperature 0° - 50°

All specifications are subject to changes without notice.



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