Multi-Processor Multi-Tasking
Image Processing System

MVS-35*cf*

SPEED AND PRECISION DOWN TO THE HUNDREDTH OF A MILLIMETER

visicontrol® ™
visicontrol® Gesellschaft für elektronische Bildverarbeitung mbH

The DSP*-based multi-processor and multi-tasking system MVS-35*cf* is now even more robust and enhanced by a compact flash memory drive. There is no compromise between PC and accessories, and no intelligent camera where size is more important than function. Its concept was not evolved from "synergetic considerations", but in the heads of experienced developers on the basis of market demands and requirements.

The MVS-35*cf* is a stand-alone image processing system developed to use the advantages of modern double-speed full-frame cameras. Only 0.02 seconds are now needed to record the image of a component to be tested; in other words: if the mechanical conditions are satisfactory, it is possible to check at least 3000 specimen per minute. The MVS-35*cf* is able to record and evaluate a camera image at any time, i.e. asynchronously and independently of the video cycle; up to 50 times per second at full resolution.

If two cameras are connected to the MVS-35*cf*, these can naturally be read out in a way that is determined exclusively by the time of the part arrival, simultaneously and asynchronously. As a result, it is now possible for the first time to check and measure two views of a product with one image processing system at the same time.

Due to the fact that the MVS-35*cf* runs independently of the video cycle, the exposure time is identical to the integration time of the camera and the interference of light from external sources is reduced considerably in comparison with previous levels.

The MVS-35*cf* has all the practical interfaces needed for automation applications: a data bus for communication with lighting systems, inputs and outputs for 16 sensors and 16 actuators, Ethernet (TCP/IP) as well as a special input for an incremental encoder are proof of the fact that all interfaces have been thought of.

The visiTeach® software is stored in the fail-safe EEPROM memory as before.

A PC compatible compact flash memory drive is provided for saving measured values, images or programs.

*DSP = Digital Signal Processor

Performance features

- Four camera connections; up to 12 connections possible
- Double-speed full-frame camera interface
- High-performance DSP
- Incremental encoder direct input
- Parallel port EPP and ECP capable (fast data transfer)
- Light bus to visiLum® LED lighting system (communication with lighting systems)
- Compact flash memory drive (PC-compatible)
- Robust connector system
- Sheet steel housing for use in areas with high levels of electromagnetic interference
- Integrated power supply unit
- 24 volt output for sensors and actuators
- Printer port
- PLC functions and status display
- COM ports to CAQ, etc.
- Network connection (TCP/IP)
- CE mark, conforms to EU directives
- Hardware and software made in Germany

Configuration example

- MVS-35*cf* image processing device
- Standard CCD camera with lens
- Protective housing for the camera
- Set of cables
- VGA TFT display, MF2 keyboard, mouse
- visiTeach® software
- Documentation on CD-ROM
- Training

Options

- Double-speed full-frame camera
- Line camera interface

05/2004 We reserve the right to make changes due to technical progress.

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