

NeuroCheck® Compact adds a whole new dimension to digital image processing, finally fulfilling the vision of the "Intelligent Camera". For the first time you will be able to hold the flexibility of the leading tool for industrial image processing literally in your hand. An entire PC has been integrated into the casing of a CCD camera, powerful enough to use **NeuroCheck®** as the heart and user interface of an "Intelligent Camera".



Concept

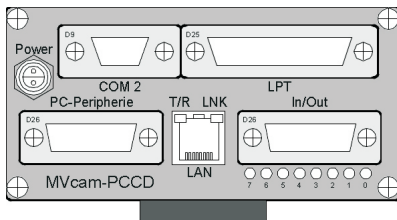
In contrast to many other outwardly similar processor cameras, the inspection application is not built on an additional PC, using a configuration software which is typically restricted to only a small set of adjustable parameters. Simply connect monitor and keyboard to change the **NeuroCheck® Compact** camera built into your production line into a full-fledged **NeuroCheck®** PC workstation. You can develop or optimize your application using the entire functionality of **NeuroCheck®** and enjoying its traditional ease-of-use. You can choose among several different hardware classes, depending on the performance requirements of your inspection task.

CCD Camera

NeuroCheck® Compact utilizes a precision CCD image sensor. With a resolution of 640 x 480 pixels, square pixel size, and fully digital technology, it is ideally suited for gauging tasks. The camera operates in progressive-scan mode, avoiding the field offset of interlaced cameras which can render the image unusable for certain inspection tasks. Selectable shutter speeds up to 1/10000 s and asynchronous reset by software or hardware trigger complete the pre-requisites for the inspection of fast moving parts.

Interface

NeuroCheck® Compact provides an extensive array of interfaces to facilitate easy integration into your quality management system. The parallel interface offers the transfer performance of desktop PCs. The digital I/O interface with its eight opto-coupled inputs and outputs in 24V standard can be used for hand-shaked remote-control of **NeuroCheck®** by a PLC. Measurement data is sent to the PLC via the separate COM2 interface. The built-in RJ45 socket lets you connect **NeuroCheck® Compact** to your network in order to write inspection protocols directly to any networked drive. VGA monitor, keyboard and mouse are connected through an adapter to the compact PC-peripherals socket. By attaching a mouse, keyboard and monitor you can optimize your check routine directly on the production line.



In Brief

The combination of ease-of-use, functionality and size of **NeuroCheck® Compact** opens up a whole new range of possibilities for visual inspection in cost or space-sensitive areas. At any time, an application can be extended to a complex, multi-camera inspection system, thanks to the full compatibility to the standard **NeuroCheck®** PC software version.