



Product Catalog 2020



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Subject to technical changes and errors.

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Description

NeuroCheck Software



NeuroCheck Version 6.2

NC-62S-PRE NeuroCheck V 6.2 Premium Edition (USB) Developer Edition for interactive development and operation of vision applications including programming interface. The universal application software for industrial vision systems for developing visual inspection systems for all areas of manufacturing. + Interactive language switching at runtime. + Graphical user interface for check-routine development. + Formula editor to calculate and modify parameters and result values. + Integrated device manager for 1D, 2D, 3D-cameras and industrial bus communications. + Graphical tools for automatic mode screen design. + Automatic shop-floor operation with process communication. + Powerful and fast image processing algorithms. + Programming interface to develop and integrate plug-in functions. The Premium Edition also includes these additional licenses: + NcFmtCnv.NeuroCheck.CustomFile.NET.dll

+ PI_HalconWrapper.NET.dll

- + PI_CodeReaderXNC.NET.dll
- + PI_ContourMatchXNC.NET.dll.

Please note that the hardware key (dongle) constitutes the value of the purchased program.



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Item No.	Description
NC-62S-PRO	 NeuroCheck V 6.2 Professional Edition (USB) Developer Edition for interactive development and operation of vision applications. The universal application software for industrial vision systems for developing visual inspection systems for all areas of manufacturing. Interactive language switching at runtime. Graphical user interface for check-routine development. Formula editor to calculate and modify parameters and result values. Integrated device manager for 1D, 2D, 3D-cameras and industrial bus communications. Graphical tools for automatic mode screen design. Automatic shop-floor operation with process communication. Powerful and fast image processing algorithms. The Professional Edition also includes these additional licenses: NcFmtCnv.NeuroCheck.CustomFile.NET.dll PI_HalconWrapper.NET.dll PI_ContourMatchXNC.NET.dll. Please note that the hardware key (dongle) constitutes the value of the purchased program.
NC-62S-RT	NeuroCheck V 6.2 Runtime Edition (USB) Runtime Edition for a completely configured application. The universal application software for industrial vision systems. The Runtime Edition comprises the entire image processing functionality of the Professional or Premium Edition excluding manual mode for configuration applications. + Interactive language switching at runtime. + Automatic shop-floor operation with process communication. + Powerful and fast image processing algorithms. Please note that the hardware key (dongle) constitutes the value of the purchased program.

Description

Multi license levels

Please note:

 When using these software license levels, you can operate up to four parallel NeuroCheck software instances on one computer with each instance processing one NeuroCheck project. Thus you can run several, completely independent and non-synchronized image processing systems on a single computer.

NC-62M-PRE

NeuroCheck V 6.2 Premium Multi Edition (USB) Developer Edition for interactive development and parallel operation of multiple applications on one computer, including programming interface.

The universal application software for industrial vision systems for developing visual inspection systems for all areas of manufacturing.

- + Interactive language switching at runtime.
- + Graphical user interface for check-routine development.
- + Formula editor to calculate and modify parameters and result values.
- + Integrated device manager for 1D, 2D, 3D-cameras and industrial bus communications.
- + Graphical tools for automatic mode screen design.
- + Automatic shop-floor operation with process communication.
- + Powerful and fast image processing algorithms.
- + Programming interface to develop and integrate plug-in functions.

The Premium Edition also includes these additional licenses:

- + NcFmtCnv.NeuroCheck.CustomFile.NET.dll
- + PI_HalconWrapper.NET.dll
- + PI_CodeReaderXNC.NET.dll
- + PI_ContourMatchXNC.NET.dll.

Please note that the hardware key (dongle) constitutes the value of the purchased program.







Item No.	Description
NC-62M-RT	NeuroCheck V 6.2 Runtime Multi Edition USB)
	Runtime Edition for multiple completely configured
	applications on one computer.
	The universal application software for industrial vision systems.
	The Runtime Edition comprises the entire image processing functionality
	of the Professional or Premium Edition excluding manual mode for configuration applications.
	+ Interactive language switching at runtime.
	+ Automatic shop-floor operation with process communication.
	+ Powerful and fast image processing algorithms.
	Please note that the hardware key (dongle) constitutes the value of the purchased program.

Upgrades

Please note that after applying a NeuroCheck 6.2 license upgrade there is no compatibility with older NeuroCheck 5.1 installations.

The 6.2 dongle will not be accepted by a NeuroCheck installation of version 5.1 older than service pack 11, it will only run in Demo mode!

NC-62-UPDATE/PRE	Upgrade NeuroCheck V6.1 Premium to V6.2 Premium
NC-62-UPDATE/PRO	Upgrade NeuroCheck V6.1 Professional to V6.2 Professional
NC-62-UPDATE/RT	Upgrade NeuroCheck V6.1 Runtime to V6.2 Runtime
NC-62-UPDATE/P-M	Update NeuroCheck V6.1 Premium Multi to V6.2 Premium Multi
NC-62-UPDATE/R-M	Update NeuroCheck V6.1 Runtime Multi to V6.2 Runtime Multi
NC-62-UPGRADE/01	Upgrade NeuroCheck V6.2 Runtime to Professional
NC-62-UPGRADE/02	Upgrade NeuroCheck V6.2 Runtime to Premium
NC-62-UPGRADE/03	Upgrade NeuroCheck V6.2 Professional to Premium
NC-62-UPGRADE/04	Upgrade NeuroCheck Version 6.2 Runtime to Runtime Multi-Edition
NC-62-UPGRADE/05	Upgrade NeuroCheck V6.2 Premium to Premium Multi-Edition



Description

Plug-in extensions (extra licensing)

Please note:

- Plug-in software extensions listed in this section are licensed for single use on one computer only and therefore are bound to a specific NeuroCheck license.
- Please note that for creation of a check routine containing plug-in check functions a NeuroCheck 6.2 Premium Edition is required.

NC-3420/U-F	PI_ContourMatch.NET.dll This NeuroCheck 6.2 plug-in contains a contour based search algorithm to find patterns (models) within an image using the external library MIL 10.0. For details please refer to help file PI_ContourMatch.NET.chm.
NC-3430/U-F	PI_CodeReader.NET.dll This NeuroCheck 6.2 plug-in is used to read several 2D codes and 1D bar codes using the external library MIL 10.0. For details please refer to help file PI_CodeReader.NET.chm.
NC-3440-F	PI_HalconWrapper.NET.dll This NeuroCheck 6.2 plug-in is used to execute HDevelop programs for the external HALCON library. It is possible to use objects from the NeuroCheck data tray and register cells as input or output for the programs. For details please refer to help file PI_HalconWrapper.NET.chm. (already included in the Professional and Premium Edition)
NC-3450-F	PI_LensFocusControl.NET.dll This NeuroCheck 6.2 plug-in allows to change the focus value of a Optotune's electrically tunable lense dynamically. For details please refer to help file PI_LensFocusControl.NET.chm.



Description

Driver and data format converter extensions (extra licensing)

Please note:	
	vare extensions listed in this section are licensed for single use ne computer only and therefore are bound to a specific NeuroCheck license.
	se note that for configuration of hardware drivers and data format converters uroCheck 6.2 Professional Edition is required.
NC-3461-F	Nc3D.NeuroCheck.EN.dll:
	This NeuroCheck 6.2 hardware driver integrates selected models of the "N" series stereo 3D cameras of manufacturer Ensenso as a 3D camera device in NeuroCheck software.
NC-3462-F	Nc3D.NeuroCheck.Generic.dll:
	This NeuroCheck 6.2 hardware driver integrates various 3D cameras of selected manufacturers as a 3D camera device in NeuroCheck software.
NC-3435-F	NcFb.InterComm.NET.dll:
	NeuroCheck 6.2 driver for interprocess-communication + between multiple NeuroCheck instances on the same PC or over the network + between NeuroCheck and NCRoboDirector
	For details please refer to help file NcFb.InterComm.NET.chm.
NC-3443-F	NcFmtCnv.NeuroCheck. DatabaseStandard.NET.dll
	This NeuroCheck 6.2 Data Format Converter is used to connect and exchange data from and to a local database using SQL statements.
NC-3444-F	NcFmtCnv.NeuroCheck. FieldbusFlowControl.NET.dll
	This NeuroCheck 6.2 Data Format Converter contains a special sequence control system that allows starting a sequence of check routine executions including type changes by a single start signal from field bus.



Item No.	Description
NC-3445-F	NcFmtCnv.NeuroCheck. SerialFlowControl.NET.dll This NeuroCheck 6.2 Data Format Converter contains a special sequence control system that allows starting a sequence of check routine executions including type changes by a single start signal from a serial device (RS232, TCP/IP).
NC-3442-F	NcFmtCnv.NeuroCheck. CustomFile.NET.dll This NeuroCheck 6.2 Data Format Converter writes data into a readable text file (TXT, XML or HTML files for instance) in a custom file format. The file format is defined as template file using place holders.
NC-3446-F	NcFmtCnv.NeuroCheck.OPCUA.NET.DLL This NeuroCheck 6.2 Data Format Converter acts as a OPC UA Client application and allows data transfer between NeuroCheck and a OPC UA Server. For details please refer to help file NcFmtCnv.NeuroCheck.OPCUA.UI.NET.chm.



Description

Plug-in extensions (products)

Please note:

- Plug-in software extensions listed in this section may be used several times in different projects.
- Please note that for creation of a check routine containing plug-in check functions a NeuroCheck 6.2 Premium Edition is required.

NC-3494	PI_Distortion.NET.dll This NeuroCheck 6.2 plug-in contains functions to determine the geometric distortion in an image and minimizes the distortion like
	radial lens distortion or perspective by transforming the image. For details please refer to help file PI_Distortion.NET.chm.
NC-3488	PI_CoordinateTransformation.NET.dll
	This NeuroCheck 6.2 plug-in allows to perform a two-dimensional coordinate transformation for the center points of objects found in the current image. For details please refer to help file PI_CoordinateTransformation.NET.chm.
NC-3482	PI_RoiTools.NET.dll
	This NeuroCheck 6.2 plug-in contains different plug-in check functions for creation or modification of list of ROIs. For details please refer to help file PI_RoiTools.NET.chm.
NC-3480	PI_ImageTools.NET.dll
	This NeuroCheck 6.2 plug-in contains different plug-in check functions for creation or modification of images. For details please refer to help file PI_ImageTools.NET.chm.
NC-3481	PI_MeasTools.NET.dll
	This NeuroCheck 6.2 plug-in contains different plug-in check functions for creation or modification of measurement lists. For details please refer to help file PI_MeasTools.NET.chm.



Item No.	Description
NC-3471	PI_Gauge.NET.dll This NeuroCheck 6.2 plug-in is used to gauge a part of an object contour with a special calliper rule. For details please refer to help file PI_Gauge.NET.chm.
NC-3473	PI_ManualInput.NET.dll This NeuroCheck 6.2 plug-in contains plug-in check functions which allow a synchronous user input of data in automatic mode. For details please refer to help file PI_ManualInput.NET.chm.
NC-3496	PI_DataRegister.NET.dll This NeuroCheck 6.2 plug-in contains different plug-in check functions for modification or special use cases of data register cells. For details please refer to help file PI_DataRegister.NET.chm.
NC-3475	PI_FileManagement.NET.dll: This NeuroCheck 6.2 plug-in contains functions to manage files on hard disc and network storages, for instance copy, move, zip and delete operations. For details please refer to help file PI_FileManagement.NET.chm.



Description

Gigabit-Ethernet Area-Scan Cameras (monochrome/color)

NCLT-50C.I



10-GigE Area Scan Camera NCLT-50C.I

NEW!

C-Mount 2/3"-CMOS sensor, progressive scan, color Resolution: 2448 × 2048 pixels Pixel size: 3.45 µm x 3.45 µm Frame rate: max. 163 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • external: U: 12 ... 24 V DC, P: 10.3 W @ 12 V DC • PoE: not supported IOs: 2 digital Inputs and 4 digital Outputs (continuously max. 1.5 A; PWM max. 2.5 A) Lens control for Corning Varioptic Dimensions (WxHxD in mm): 60 x 60 x 99,7 ((Lens tube is an optional accessory)

NCCG-13M.I



GigE Area Scan Camera NCCG-13M.I

C-Mount 1/2"-CMOS sensor, progressive scan, monochrome Resolution: 1280 × 1024 pixels Pixel size: 4,8 µm x 4,8 µm Frame rate: max. 94 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 ... 24 VDC, P: 2,5 W @ 12 VDC • PoE: U: 36 ... 57 V DC, P: 3,0 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)



Item No.	Description
NCCG-13C.I	GigE Area Scan Camera NCCG-13C.I C-Mount 1/2"-CMOS sensor, progressive scan, color Resolution: 1280 × 1024 pixels Pixel size: 4,8 µm x 4,8 µm Frame rate: max. 94 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,5 W @ 12 VDC • PoE: U: 36 57 V DC, P: 3,0 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)
NCCG-15M.I	GigE Area Scan Camera NCCG-15M.I C-Mount 1/2.9""-CMOS sensor, progressive scan, monochrome Resolution: 1440 × 1080 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 121 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,5 W @ 12 VDC • PoE: U: 36 57 V DC, P: 3,0 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)
NCCG-15C.I	GigE Area Scan Camera NCCG-15C.I C-Mount 1/2.9""-CMOS sensor, progressive scan, color Resolution: 1440 × 1080 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 121 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,5 W @ 12 VDC • PoE: U: 36 57 V DC, P: 3,0 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)



Item No.	Description	
NCCG-32M.I	GigE Area Scan Camera NCCG-32M.I C-Mount 1/1,8"-CMOS sensor, progressive scan, monochrome Resolution: 2048 × 1536 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 39 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,3 W @ 12 VDC • PoE: U: 36 57 V DC, P: 2,9 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)	
NCCG-32C.I	GigE Area Scan Camera NCCG-32C.I C-Mount 1/1,8"-CMOS sensor, progressive scan, color Resolution: 2048 × 1536 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 39 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,4 W @ 12 VDC • PoE: U: 36 57 V DC, P: 3,1 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)	
NCCG-51M.I	GigE Area Scan Camera NCCG-51M.I C-Mount 2/3" CMOS sensor, progressive scan, monochrome Resolution: 2448 x 2048 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 23 fps Data interface: M12 / 8 pol X-coded Programs interface: M12 / 12 pol A coded	

Processs interface: M12 / 12 pol A-coded

• extern: U: 12 ... 24 VDC, P: 2,3 W @ 12 VDC • PoE: U: 36 ... 57 V DC, P: 3,1 W @ 48 VDC

A digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)

Electrical data:

4 digital Inputs



Item No.	Description	
NCCG-51C.I	GigE Area Scan Camera NCCG-51C.I C-Mount 2/3" CMOS sensor, progressive scan, color Resolution: 2448 x 2048 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 23 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,5 W @ 12 VDC • POE: U: 36 57 V DC, P: 3,0 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)	
<section-header></section-header>	GigE Area Scan Camera NCCG-124M.I C-Mount 1,1"-CMOS sensor, progressive scan, monochrome Resolution: 4096 × 3000 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 10 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,5 W @ 12 VDC • PoE: U: 36 57 V DC, P: 3,2 W @ 48 VDC 4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)	
NCCG-124C.I	GigE Area Scan Camera NCCG-124C.I C-Mount 1,1"-CMOS sensor, progressive scan, color Resolution: 4096 × 3000 pixels Pixel size: 3,45 µm x 3,45 µm Frame rate: max. 10 fps Data interface: M12 / 8 pol X-coded Processs interface: M12 / 12 pol A-coded Electrical data: • extern: U: 12 24 VDC, P: 2,6 W @ 12 VDC • PoE: U: 36 57 V DC, P: 3,2 W @ 48 VDC 4 digital longuts	

4 digital Inputs 4 digital Outputs (with PWM, max. 48 V / max. 2,5 A) Dimensions: 40 mm x 40 mm x 51 mm Protection: IP 65/67 (with mounted tube and cable)



Item No.	Description
NCCG-13M	GigE Area Scan Camera NCCG-13M
	-
	C-Mount 1/2″ CMOS sensor, progressive scan, monochrome
	Resolution: 1280 × 1024 pixels
	Pixel size: 4.8 μm x 4.8 μm
	Frame rate: max. 94 fps GigE output: standard RJ45 female connector
	Electrical data:
	• external: U: 24 V DC, I: 108 mA, P: 2,6 W • PoE: U: 48 V DC, I: 87 mA, P: 4.2 W
	Dimensions: 29 mm x 29 mm x 56 mm
NCCG-13C	GigE Area Scan Camera NCCG-13C
	C-Mount
	1/2" CMOS sensor, progressive scan, color
NEURO	Resolution: 1280 × 1024 pixels Pixel size: 4.8 μm x 4.8 μm
ERECK	Frame rate: max. 94 fps
	GigE output: standard RJ45 female connector Electrical data:
	• external: U: 24 V DC, I: 108 mA, P: 2,6 W
	• PoE: U: 48 V DC, I: 87 mA, P: 4.2 W
	Dimensions: 29 mm x 29 mm x 56 mm
NCCG-23M	GigE Area Scan Camera NCCG-23M
	-
	C-Mount 1/1.2″ CMOS sensor, progressive scan, monochrome
THE REAL PROPERTY OF THE PROPE	Resolution: 1920 x 1200 pixels
1.1.1	Pixel size: 5,86 μm x 5,86 μm Frame rate: max. 51 fps
	GigE output: standard RJ45 female connector
	Electrical data:
	• extern: U: 24 V DC, I: 97 mA, P: 2,3 W • PoE: U: 48 V DC, I: 58 mA, P: 2,8 W
	Dimensions: 29 mm x 29 mm x 56 mm
NCCG-23C	GigE Area Scan Camera NCCG-23C
	C-Mount 1/1.2″ CMOS sensor, progressive scan, color
	Resolution: 1920 x 1200 pixels
	Pixel size: 5,86 μm x 5,86 μm
	Frame rate: max. 51 fps GigE output: standard RJ45 female connector
	Electrical data:
	• extern: U: 24 V DC, I: 97 mA, P: 2,3 W • PoE: U: 48 V DC, I: 58 mA, P: 2,8 W
	Dimensions: 29 mm x 29 mm x 56 mm



Item No.	Description
NCCG-32M	GigE Area Scan Camera NCCG-32M C-Mount
CONTROL MERCER	1/1.8″ CMOS sensor, progressive scan, monochrome Resolution: 2048 x 1536 pixels Pixel size: 3,45 μm x 3,45 μm
	Frame rate: max. 39 fps GigE output: standard RJ45 female connector Electrical data: • extern: U: 24 V DC, I: 107 mA, P: 2,6 W
	• PoE: U: 48 V DC, I: 64 mA, P: 3,1 W Dimensions: 29 mm x 29 mm x 56 mm
NCCG-32C	GigE Area Scan Camera NCCG-32C
NY DECEMBER	C-Mount 1/1.8″ CMOS sensor, progressive scan, color Resolution: 2048 x 1536 pixels Pixel size: 3,45 µm x 3,45 µm
	Frame rate: max. 39 fps GigE output: standard RJ45 female connector Electrical data:
	• extern: U: 24 V DC, I: 107 mA, P: 2,6 W • PoE: U: 48 V DC, I: 64 mA, P: 3,1 W Dimensions: 29 mm x 29 mm x 56 mm
NCCG-51M	GigE Area Scan Camera NCCG-51M
	C-Mount 2/3″ CMOS sensor, progressive scan, monochrome Resolution: 2448 x 2048 pixels
	Pixel size: 3,45 μm x 3,45 μm Frame rate: max. 23 fps GigE output: standard RJ45 female connector Electrical data:
	• extern: U: 24 V DC, I: 109 mA, P: 2,6 W • PoE: U: 48 V DC, I: 65 mA, P: 3,1 W Dimensions: 29 mm x 29 mm x 56 mm
NCCG-51C	GigE Area Scan Camera NCCG-51C
	C-Mount 2/3" CMOS sensor, progressive scan, color Resolution: 2448 x 2048 pixels Pixel size: 3,45 μm x 3,45 μm Frame rate: max. 23 fps GigE output: standard RJ45 female connector Electrical data:
	• extern: U: 24 V DC, I: 109 mA, P: 2,6 W • PoE: U: 48 V DC, I: 65 mA, P: 3,1 W Dimensions: 29 mm x 29 mm x 56 mm



Item No.	Description
NCCG-53M	GigE Area Scan Camera NCCG-53M
	C-Mount
	1" CMOS sensor, progressive scan, monochrome
	Resolution: 2592 × 2048 pixels
EXERCIC	Pixel size: 4.8 μm x 4.8 μm Frame rate: max. 23 fps
	GigE output: standard RJ45 female connector
	Electrical data:
	• external: U: 24 V DC, I: 282 mA, P: 6.8 W • PoE: U: 48 V DC, I: 87 mA, P: 4.2 W
	Dimensions: 29 mm x 29 mm x 56 mm
NCCG-53c	GigE Area Scan Camera NCCG-53C
	C-Mount
	1″ CMOS sensor, progressive scan, color
	Resolution: 2592 × 2048 pixels
HEAR	Pixel size: 4.8 μm x 4.8 μm Frame rate: max. 23 fps
	GigE output: standard RJ45 female connector
	Electrical data:
	• external: U: 24 V DC, I: 282 mA, P: 6.8 W • PoE: U: 48 V DC, I: 87 mA, P: 4.2 W
	Dimensions: 29 mm x 29 mm x 56 mm
NCCG-124M	GigE Area Scan Camera NCCG-124M
	C-Mount
	1.1" CMOS sensor, progressive scan, monochrome
	Resolution: 4096 × 3000 pixels Pixel size: 3,45 μm x 3,45 μm
	Frame rate: max. 10 fps
	GigE output: standard RJ45 female connector
	Electrical data: • extern: U: 24 V DC, I: 120 mA, P: 2,9 W
	• PoE: U: 48 V DC, I: 73 mA, P: 3,5 W
	Dimensions: 29 mm x 29 mm x 56 mm
NOCO 4940	
NCCG-124C	GigE Area Scan Camera NCCG-124C
	C-Mount 1.1″ CMOS sensor, progressive scan, color
CONTRACTOR OF CO	Resolution: 4096 × 3000 pixels
	Pixel size: 3,45 μm x 3,45 μm
	Frame rate: max. 10 fps GigE output: standard B 145 female connector
	GigE output: standard RJ45 female connector Electrical data:
	• extern: U: 24 V DC, I: 120 mA, P: 2,9 W
	• PoE: U: 48 V DC, I: 73 mA, P: 3,5 W Dimensions: 29 mm x 29 mm x 56 mm
	Dimensions. 27 mm x 27 mm x 70 mm



Item No.	Description
NCLG-120M	GigE Area Scan Camera NCLG-120M M58-Mount (C-, F-, M42-Mount via adapter) APS-C CMOS sensor, progressive scan, monochrome Resolution: 4096 x 3072 pixels Pixel size: 5.5 µm x 5.5 µm Frame rate: max. 19 fps GigE output: 2x standard RJ45 female connector Dual Gigabit Ethernet (Static Link Aggregation) Electrical data: • external: U: 24 V DC, I: 255 mA, P: 6.1 W • PoE: U: 48 V DC, I: 154 mA, P: 7.4 W Dimensions: 60 mm x 60 mm x 52,4 mm
NCLG-120C	GigE Area Scan Camera NCLG-120C M58-Mount (C-, F-, M42-Mount via adapter) APS-C CMOS sensor, progressive scan, color Resolution: 4096 x 3072 pixels Pixel size: 5.5 µm x 5.5 µm Frame rate: max. 19 fps GigE output: 2x standard RJ45 female connector Dual Gigabit Ethernet (Static Link Aggregation) Electrical data: • external: U: 24 V DC, I: 255 mA, P: 6.1 W • PoE: U: 48 V DC, I: 154 mA, P: 7.4 W Dimensions: 60 mm x 60 mm x 52,4 mm
NCLG-200M	GigE Area Scan Camera NCLG-200M M58-Mount (C-, F-, M42-Mount via adapter) 35 mm CMOS sensor, progressive scan, monochrome Resolution: 5120 x 3840 pixels Pixel size: 6.4 µm x 6.4 µm Frame rate: max. 12 fps GigE output: 2x standard RJ45 female connector Dual Gigabit Ethernet (Static Link Aggregation) Electrical data: • external: U: 24 V DC, I: 247 mA, P: 5.9 W • PoE: U: 48 V DC, I: 150 mA, P: 7.2 W Dimensions: 60 mm x 60 mm x 52,4 mm
NCLG-200C	GigE Area Scan Camera NCLG-200C M58-Mount (C-, F-, M42-Mount via adapter) 35 mm CMOS sensor, progressive scan, color Resolution: 5120 x 3840 pixels Pixel size: 6.4 µm x 6.4 µm Frame rate: max. 12 fps GigE output: 2x standard RJ45 female connector Dual Gigabit Ethernet (Static Link Aggregation) Electrical data: • external: U: 24 V DC, I: 247 mA, P: 5.9 W • PoE: U: 48 V DC, I: 150 mA, P: 7.2 W Dimensions: 60 mm x 60 mm x 52,4 mm



Description

Line-Scan Cameras

DAL-S2-2k40

Monochrome line-scan camera Spyder2 CameraLink



M42x1 mount 2048 pixel CCD sensor 14µm x 14µm pixel area 18 kHz line scan rate Pixel Clock 1 x 40 MHz Digital output 8/10 Bit CameraLink Standard Base Power requirements: 12V DC / 5 W Dimensions: 50 x 85 x 50mm³ (excl. lens adapter) F-mount adapter is contained in the scope of supply

DAL-LIN-2k80



Monochrome line-scan camera LINEA CameraLink

mount M42x1 (optional C-mount adapter) CMOS-Sensor 2048 pixel 7,04µm x 7,04µm Pixel size Sensor size 14,4 mm line scan rate 80 kHz Pixel Clock 77 MHz Power requirements: 12 bis 24 VDC, 4 W Connector:2xSDR26, 6-Pol Hirose (Mini-CL) Digital output 8 or 12 Bit via CameraLink Standard Dimensions 62 x 62 x 31 (B x H x T in mm)

DAL-P4-2k10D



Monochrome line-scan camera Piranha4 CameraLink

M42x1 mount 2048 pixel CMOS sensor 10,56µm x 10,56µm pixel area 100 kHz line scan rate Pixel Clock 2 x 85 MHz Digital output 8, 10 or 12 Bit Base, Medium, Full CameraLink configuration possible Power requirements: 12 - 24 VDC, 8,3 W Dimensions: 62 x 62 x 48mm³



Description

Light Sources

CC-FL027x027/W-V02



CC-FL043x035/W-V02



CC-FL051x051/W-V02



PLA-0021-M8



PLA-0030/W



CC-BL041x016/W-V02



Area light LED 27 x 27 mm

Lighted area: 27 x 27 mm² Light source: LED white (6600 K) Power requirements: 24 VDC / 2,9 W Dimension: 29 x 39 x 15 mm³

Area light LED 43 x 35 mm

Lighted area: 43 x 35 mm² Light source: LED white (6600 K) Power requirements: 24 VDC / 4,8 W Dimension: 45 x 47 x 15 mm³

Area light LED 51 x 51 mm

Lighted area: 51 x 51 mm² Light source: LED white (6600 K) Power requirements: 24 VDC / 8,2 W Dimension: 53 x 63 x 15 mm³

Area light LED 100 x 100 mm

Lighted area: 100 x 100 mm² Light source: LED white Power requirements: 24 VDC Dimension: 140mm x 135mm x 20mm

Area light LED 300 x 200 mm

Lighted area: 300 x 200 mm² Light source: LED white Power requirements: 24 VDC / 19,2 W Dimension: 250mm x 340mm x 20mmDC

High-Power LED-Light

Lighted area: 41 x 16 mm² Light source: LED white Power requirements: 24 VDC / 3,8 W Dimension: 53 x 20 x 20 mm³



Item No.	Description
CC-BL080x016/W-V02	High-Power LED-Light
	Lighted area: 80 x 16 mm² Light source: LED white
	Power requirements: 24 VDC / 7,6 W Dimension: 92 x 20 x 20 mm³
CC-BL074x030/W-V02	High-Power LED-Light
	Lighted area: 74 x 30 mm² Light source: LED white Power requirements: 24 VDC / 12 W Dimension: 86 x 34 x 20 mm³
TIS-0011/R-24V	Diffuse ring light LED D 130
	External dimensions: 125mm Light color: red Depth: 12mm 24 VDC
TIS-0012/R-24V	Diffuse ring light LED D 100
	External dimensions: 102 mm Light color: red Depth: 12mm 24 VDC
TIS-0021/R-24V	Ring light LED D 50
	External dimensions: 50 mm Light color: red Depth: 16mm 24 VDC
TIS-0022/R-24V	Ring light LED D 70
	External dimensions: 70 mm Light color: red Depth: 22mm 24 VDC
Further lighting on reque	st



Description

Gigabit-Ethernet Boards

NET-0010

GigE-board with 1 Port for PCI-Express x1



NET-0002

GigE-board with 2 Ports for PCI-Express x4



NET-0004



GigE-board with 4 Ports for PCI-Express x4

NET-0022/V02



GigE-Board with 2 Ports for PCI-Express x4 with PoE (Power over Ethernet)



NET-0024/V02



GigE-Board with 4 Ports for PCI-Express x4 with PoE (Power over Ethernet)



Description

Frame Grabber

MAT-0014

Frame grabber board Hyperion-CLb (PCI-Express x1) Connects 1 x BASE Max. Data rate 200Mbyte/sec. External trigger input (opto isolated) PCI-Express x1

(Please note, only usable with NeuroCheck 6.x)



Description

Lenses



RIC-OBJ-9M1220	12 Megapixel lens 12 mm lockable C mount , 1,1" , f = 12 mm , F 2,0
RIC-OBJ-9M1618	12 Megapixel lens 16 mm lockable C mount , 1,1" , f = 16 mm , F 1,8
RIC-OBJ-9M2518	12 Megapixel lens 25 mm lockable C mount , 1,1" , f = 25 mm , F 1,8
RIC-OBJ-9M3518	12 Megapixel lens 35 mm lockable C mount , 1,1" , f = 35 mm , F 1,8
RIC-OBJ-9M5024	12 Megapixel lens 50 mm lockable C mount , 1,1" , f = 50 mm , F 2,4
RIC-OBJ-9M7528	12 Megapixel lens 75 mm lockable C mount , 1,1" , f = 75 mm , F 2,8



Item No.	Description
FUJ-0001/V02	Compact lens 6 mm lockable C mount , 1/2" , f = 6 mm , F 1,2
FUJ-0002/V02	Compact lens 9 mm lockable C mount , 2/3" , f = 9 mm , F 1,4
FUJ-0003/V02	Compact lens 12,5 mm lockable C mount , 2/3" , f = 12,5 mm , F 1,4
FUJ-0004/V02	Compact lens 16 mm lockable C mount , 2/3" , f = 16 mm , F 1,4
FUJ-0005/V02	Compact lens 25 mm lockable C mount , 2/3" , f = 25 mm , F 1,4
FUJ-0006/V02	Compact lens 35 mm lockable C mount , 2/3" , f = 35 mm , F 1,6
FUJ-0007/V02	Compact lens 50 mm lockable C mount , 2/3",f = 50 mm , F 2,3
FUJ-0008/V02	Compact lens 75 mm lockable C mount , 2/3" , f = 75 mm , F 2,8



Description

Communication

HIL-0003/2.2



PROFIbus slave board, DS50-DPS-PCI

PROFIbus DP slave based on SPC3 ASIC, max. data rate 12Mbaud, 368 byte process map , RS232C diagnostic link

HIL-0006

PROFIbus slave board, CIFX 50-DP PROFIbus DP slave for PCI



HIL-0008



PROFIbus slave board, CIFX 50E-DP

PROFIbus DP slave for PCI Express

HIL-0206



Real-Time-Ethernet board, CIFX 50-RE

PCI Communication Interface netX for Real-Time-Ethernet - 2x RJ45 for PCI

Only for NeuroCheck 6.0/6.1!

HIL-0208



Real-Time-Ethernet board, CIFX 50E-RE

PCI Communication Interface netX for Real-Time-Ethernet - 2x RJ45 for PCI Express

Only for NeuroCheck 6.0/6.1!



Item No.	Description	
ICP-0001/V02	Digital-I/O board PCI-P16POR16U PCI-board with 16 digital input channels	
	and 16 digital output channels, opto-decoupled, 2 x 37-pin D-sub connectors on two slot covers. Special feature: with 1 x 37-pin D-sub connector 8 input and 8 outputs channels are available.	
ICP-0002	Digital-I/O board PEX-P16POR16i (PCI-Express)	
	PCI-Express board with 16 digital input channels and 16 digital output channels, opto-decoupled, 2 x 37-pin D-sub connectors on two slot covers. Special feature: with 1 x 37-pin D-sub connector 8 input and 8 outputs channels are available.	
1	Please note - pin assignment is not compatible with ICP-0001!	
ME-0101	Digital I/O board 16/16 PCI-Express	
	PCI-Express bus board with 16 digital input channels and 16 digital output channels, opto-decoupled 78-pin D-sub connector.	
Provide Services	Only for NeuroCheck 6.0/6.1 usable!	

ME-0102



Digital I/O board 32/32 PCI-Express

PCI-Express bus board with 32 digital input channels and 32 digital output channels, opto-decoupled 78-pin D-sub connector.

Only for NeuroCheck 6.0/6.1 usable!



Description

Cables



NWK-0005	GigE- Cable Cat.7, Length 5m
NWK-0010	GigE- Cable Cat.7, Length 10m
NWK-0020	GigE- Cable Cat.7, Length 20m
NWK-0105	GigE- Cable, dragchain resistant screw lock on one side Length 5m
NWK-0110	GigE- Cable, dragchain resistant screw lock on one side Length 10m
NWK-0120	GigE- Cable, dragchain resistant screw lock on one side Length 20m
KAB-M12-RJ45_NCG/05	Gigabit Ethernet cable RJ45 to M12 for NCG IP-Series IP67 protected length 5m
KAB-M12-RJ45_NCG/10	Gigabit Ethernet cable RJ45 to M12 for NCG IP-Series IP67 protected length 10m
KAB-M12-RJ45_NCG/15	Gigabit Ethernet cable RJ45 to M12 for NCG IP-Series IP67 protected length 15m
KAB-M12-RJ45_NCG/20	Gigabit Ethernet cable RJ45 to M12 for NCG IP-Series IP67 protected length 20m



Item No.	Description
KAB-CL2xMini/05	CameraLink-Cable Mini CL / Mini CL-plug (male) Length 5m
KAB-CL2xMini/10	CameraLink-Cable Mini CL / Mini CL-plug (male) Length 10m
KAB-CLMini/05	CameraLink-Cable MDR26 / Mini CL-plug (male) Länge 5m
KAB-CLMini/10	CameraLink-Cable MDR26 / Mini CL-plug (male) Länge 10m

Subject to technical changes and errors.