NEURO CHECK
Industrial Vision Systems

Product Catalog

On the following pages you will find an extensive selection of our product range (further articles on request).

This product catalog is valid as of June 2017.

All previous editions of the product catalog cease to be valid.

Errors and omissions excepted. Technical specifications are subject to change without notice.

Table of contents

NeuroCheck Software

NeuroCheck Version 6.1

NC-2101/U

NeuroCheck V 6.1 Premium Edition English (USB)
Developer Edition for interactive development and
operation of applications including programming interface.

The universal application software for industrial vision systems
with an interactive environment for developing visual inspection
systems for all areas of manufacturing and a runtime environment.
+ Interactive check routine development.
+ Integrated device manager for cameras and communication.
+ 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.

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

Item No.	Description

NC-2102/U

NeuroCheck V 6.1 Professional Edition English (USB)
Professional Edition for interactive development and operation of applications.

The universal application software for industrial vision systems with an interactive environment for developing visual inspection systems for all areas of manufacturing and a runtime environment.
+ Interactive check routine development.
+ Integrated device manager for cameras and communication.
+ Graphical tools for automatic mode screen design.
+ 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.

NC-2103/U

NeuroCheck V 6.1 Runtime Edition English (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.
+ 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.

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.**

- **Software license levels listed in this section were introduced with NeuroCheck version 6.1.**

NC-2104/U

NeuroCheck V 6.1 Premium Multi Edition English (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 with an interactive environment for developing visual inspection systems for all areas of manufacturing and a runtime environment.
+ Interactive check routine development.
+ Integrated device manager for cameras and communication.
+ 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.
+ Parallel operation of up to four independent applications on one computer.

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

NC-2105/U

NeuroCheck V 6.1 Runtime Multi Edition English (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.
+ Automatic shop-floor operation with process communication.
+ Powerful and fast image processing algorithms.
+ Parallel operation of up to four independent applications on one computer.

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

Item No.	Description

Upgrades

Please note that after applying a NeuroCheck 6.1 license upgrade there is no compatibility with older NeuroCheck 5.1 installations.
The 6.1 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-2011   **Upgrade NeuroCheck V6.0 Premium to V6.1 Premium**

NC-2012   **Upgrade NeuroCheck V6.0 Professional to V6.1 Professional**

NC-2013   **Upgrade NeuroCheck V6.0 Runtime to V6.1 Runtime**

NC-2015   **Upgrade NeuroCheck V6.1 Runtime to Professional**

NC-2016   **Upgrade NeuroCheck V6.1 Runtime to Premium**

NC-2017   **Upgrade NeuroCheck V6.1 Professional to Premium**

NC-2019   **Upgrade NeuroCheck V6.1 Premium to 6.1 Premium Multi-Edition**

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 6.1 Premium Edition is required.**

NC-2420/U-F   **PI_ContourMatch.NET.dll**

**This NeuroCheck 6.1 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-2430/U-F   **PI_CodeReader.NET.dll**

**This NeuroCheck 6.1 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-2450-F   **PI_LensFocusControl.NET.dll**

**This NeuroCheck 6.1 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.**

Driver and data format converter extensions (extra licensing)

Please note:

- 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 configuration of hardware drivers and data format converters
  a NeuroCheck 6.1 Professional Edition is required.

NC-2461-F   **Nc3D.NeuroCheck.EN.dll:**

**This NeuroCheck 6.1 hardware driver integrates
selected models of the "N" series stereo 3D cameras
of manufacturer Ensenso as a 3D camera device in
NeuroCheck software.**

NC-2462-F   **Nc3D.NeuroCheck.Generic.dll:**

**This NeuroCheck 6.1 hardware driver integrates various
3D cameras of selected manufacturers as a 3D camera
device in NeuroCheck software.**

NC-2443-F   **NcFmtCnv.NeuroCheck.
DatabaseStandard.NET.dll**

**This NeuroCheck 6.1 Data Format Converter is used to connect
and exchange data from and to a local database using SQL
statements.**

NC-2444-F   **NcFmtCnv.NeuroCheck.
FieldbusFlowControl.NET.dll**

**This NeuroCheck 6.1 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.**

NC-2445-F   **NcFmtCnv.NeuroCheck.
SerialFlowControl.NET.dll**

**This NeuroCheck 6.1 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-2442-F   **NcFmtCnv.NeuroCheck.
CustomFile.NET.dll for 6.1**

**This NeuroCheck 6.1 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.**

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 6.1 Premium Edition is required.**

NC-2494

PI_Distortion.NET.dll

This NeuroCheck 6.1 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-2488

PI_CoordinateTransformation.NET.dll

This NeuroCheck 6.1 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-2482

PI_RoiTools.NET.dll

This NeuroCheck 6.1 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-2480

PI_ImageTools.NET.dll

This NeuroCheck 6.1 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-2481

PI_MeasTools.NET.dll

This NeuroCheck 6.1 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-2471	**PI_Gauge.NET.dll**
	This NeuroCheck 6.1 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-2473	**PI_ManualInput.NET.dll**
	This NeuroCheck 6.1 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-2496	**PI_DataRegister.NET.dll**
	This NeuroCheck 6.1 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-2475	**PI_FileManagement.NET.dll:**
	This NeuroCheck 6.1 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.

NeuroCheck Compact II

NC-C2-13

NeuroCheck Compact II monochrome

Smart Vision System
1280 x 1024 pixels, monochrome
1/1,8" CMOS-Chip, Global shutter
5,3µm x 5,3µm pixelsize
C-Mount
Intel Atom E680 1,6 GHz
RAM 2 GB 533 MHz DDR2
8 GB SSD (Solid State Disc)
Interfaces SXGA, USB 2.0, RS232, POE+, 4 digital I/O, WLAN
Software NeuroCheck 6.1 Professional compact
Operating system Windows Embedded Standard 7
Power requirement 12 - 24 VDC max. 12W
Protection IP67 (with lens sheath tube)
Dimensions (without lens) 65 x 109,3 x 57 mm³
Dimensions (with lens sheath tube) 65 x 109,3 x 112,5 mm³

Also available as color version

NeuroCheck PowerBox

NC-2600   **NeuroCheck PowerBox**

INTEL Celeron 2,7GHz
(optional Intel Core i7-4770 3,4 GHz)
4 GB RAM, 1 TB Harddisk
DVD-RW drive
2 x PCI-Express slot
GigE-Board with 2 Ports
Digital-I/O-board DS DIG 8/8 PCI
Dimensions (l x w x h): 33,2 x 21,6 x 19,8 cm³

Area-Scan Camera digital
658 x 494 pixels
90 frames/sec.
Incl. Cable 5m

NeuroCheck V 6.1 Professional

NeuroCheck Smart-Panel Vision-System

NC-SP-17 **NeuroCheck SmartPanel Vision System**

- **17" Industrial Panel-PC (IP65 protected)**

    17"-TFT 1280 x 1024 Pixel, Resistive Touch
    CPU Core i3-2330M 2,2 GHz
    RAM 4 GB DDR3
    128 GB SSD (Solid State Disc)
    DVI, 3 x USB 2.0, 2x USB 3.0,
    1x RS232, 1x GigE (camera), 1x GigE (Network)
    Communication ProfiBus or ProfiNet
    Windows 7 Ultimate 64 Bit
    Power 24 VDC, 70W
    Dimensions: 426 x 368 x 63 mm³
    Temperature range fanless 0°C to + 40°C
    Protection IP65

- **Software NeuroCheck 6.1 Professional**

- **GigE-Camera NCG-312M.I (IP65/67)**

    1/3" CCD-Chip monochrome
    1288 x 960 Pixel
    3.75 µm x 3.75 µm Pixel size
    42 frames/Sec.

- **GigE-cable, Length 10m**

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

NCCG-13M

GigE Area Scan Camera NCCG-13M   *NEW!*

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   *NEW!*

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
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-53M

GigE Area Scan Camera NCCG-53M   *NEW!*

C-Mount
1″ CMOS sensor, progressive scan, monochrome
Resolution: 2592 × 2048 pixels
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   *NEW!*

C-Mount
1″ CMOS sensor, progressive scan, color
Resolution: 2592 × 2048 pixels
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

Item No.	Description

BAU-0203

GigE Area-Scan Camera NCG203 monochrome

C-Mount
1/3" CCD sensor monochrome
656 x 494 pixels
7,4 µm x 7,4 µm pixel area
Progressive scan
Asynchronous reset
90 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0204

GigE Area-Scan Camera NCG203c color

C-Mount
1/3" CCD sensor color
656 x 494 pixels
7,4 µm x 7,4 µm pixel area
Progressive scan
Asynchronous reset
90 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0206

GigE Area-Scan Camera NCG206 monochrome

C-Mount
1/2" CCD-Chip monochrome
776 x 582 pixels
8.3 µm x 8.3 µm pixel area
Progressive scan
Asynchronous reset
64 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0207

GigE Area-Scan Camera NCG206c color

C-Mount
1/2" CCD-Chip color
776 x 582 pixels
8.3 µm x 8.3 µm pixel area
Progressive scan
Asynchronous reset
64 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

Item No.	Description

BAU-0208

GigE Area-Scan Camera NCG208 monochrome

C-Mount
1/3" CCD sensor monochrome
1032 x 776 pixels
4.65 µm x 4.65 µm pixel area
Progressive scan
Asynchronous reset
28 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0209

GigE Area-Scan Camera NCG208c color

C-Mount
1/3" CCD sensor color
1032 x 776 pixels
4.65 µm x 4.65 µm pixel area
Progressive scan
Asynchronous reset
28 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0210

GigE Area-Scan Camera NCG212 monochrome

C-Mount
1/3" CCD sensor monochrome
1296 x 966 pixels
3.75 µm x 3.75 µm pixel area
Progressive scan
Asynchronous reset
32 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0211

GigE Area-Scan Camera NCG212c color

C-Mount
1/3" CCD sensor color
1296 x 966 pixels
3.75 µm x 3.75 µm pixel area
Progressive scan
Asynchronous reset
32 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

Item No.	Description

BAU-0213

GigE Area-Scan Camera NCG213 monochrome

C-Mount
1/2" CCD sensor monochrome
1392 x 1040 pixels
4.65 µm x 4.65 µm pixel area
Progressive scan
Asynchronous reset
20 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0212

GigE Area-Scan Camera NCG213c color

C-Mount
1/2" CCD sensor color
1392 x 1040 pixels
4.65 µm x 4.65 µm pixel area
Progressive scan
Asynchronous reset
20 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0216

GigE Area-Scan Camera NCG214f monochrome

C-Mount
2/3" CCD sensor monochrome
1392 x 1040 pixels
6.45 µm x 6.45 µm pixel area
Progressive scan
Asynchronous reset
30 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0220

GigE Area-Scan Camera NCG220 monochrome

C mount
1/1.8" CCD sensor monochrome
1624 x 1236 pixels
4.4 µm x 4.4 µm pixel area
Progressive scan
Asynchronous reset
16 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

Item No.	Description

BAU-0221

GigE Area-Scan Camera NCG220c color

C mount
1/1.8" CCD sensor color
1624 x 1236 pixels
4.4 µm x 4.4 µm pixel area
Progressive scan
Asynchronous reset
16 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0250

GigE Area-Scan Camera NCG250 monochrome

C-Mount
2/3" CCD sensor monochrome
2448 x 2050 pixels
3.45 µm x 3.45 µm pixel area
Progressive scan
Asynchronous reset
15 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

BAU-0251

GigE Area-Scan Camera NCG250c color

C-Mount
2/3" CCD sensor color
2448 x 2050 pixels
3.45 µm x 3.45 µm pixel area
Progressive scan
Asynchronous reset
15 frames/sec.
GigE output, 8/12 bit
Power requirements: 8 - 30 V DC
Dimensions: 36 x 36 x 48 mm³

Item No.	Description

BAU-0230

GigE Area-Scan Camera NCHG220 monochrome

C-Mount
2/3" CMOS-Chip monochrome
2048 × 1088 pixels
5,5 µm x 5,5 µm pixel area
105 frames/sec.
Dual GigE output, 8/12 Bit
Power requirements
- M8/3 pol. plug: 20 - 30 VDC or
- Power over Ethernet: 48 VDC (38 - 30 VDC)
Power consumption: 7,7 W
Dimensions: 52 mm x 52 mm x 55 mm³

BAU-0231

GigE Area-Scan Camera NCHG220c color

C-Mount
2/3" CMOS-Chip color
2048 × 1088 pixels
5,5 µm x 5,5 µm pixel area
105 frames/sec.
Dual GigE output, 8/12 Bit
Power requirements
- M8/3 pol. plug: 20 - 30 VDC or
- Power over Ethernet: 48 VDC (38 - 30 VDC)
Power consumption: 7,7 W
Dimensions: 52 mm x 52 mm x 55 mm³

BAU-0240

GigE Area-Scan Camera NCHG240 monochrome

C-Mount
1" CMOS-Chip monochrome
2048 × 2048 pixels
5,5 µm x 5,5 µm pixel area
56 frames/sec.
Dual GigE output, 8/12 Bit
Power requirements
- M8/3 pol. plug: 20 - 30 VDC or
- Power over Ethernet: 48 VDC (38 - 30 VDC)
Power consumption: 8,4 W
Dimensions: 52 mm x 52 mm x 55 mm³

BAU-0241

GigE Area-Scan Camera NCHG240c color

C-Mount
1" CMOS-Chip color
2048 × 2048 pixels
5,5 µm x 5,5 µm pixel area
56 frames/sec.
Dual GigE output, 8/12 Bit
Power requirements
- M8/3 pol. plug: 20 - 30 VDC or
- Power over Ethernet: 48 VDC (38 - 30 VDC)
Power consumption: 8,4 W
Dimensions: 52 mm x 52 mm x 55 mm³

Item No.	Description

NCG-312M.I

GigE Area-Scan Camera NCG-312M.I (IP65/67)

C-Mount
1/3″ CCD sensor, progressive scan, monochrome
Resolution: 1288 x 960 pixels
Pixel size: 3.75 µm x 3.75 µm
Frame rate: max. 42 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 150 mA, P: 3.6 W
• PoE: U: 48 V DC, I: 80 mA, P: 3.8 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

NCG-312C.I

GigE Area-Scan Camera NCG-312C.I (IP65/67)

C-Mount
1/3″ CCD sensor, progressive scan, color
Resolution: 1288 x 960 pixels
Pixel size: 3.75 µm x 3.75 µm
Frame rate: max. 42 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 150 mA, P: 3.6 W
• PoE: U: 48 V DC, I: 80 mA, P: 3.8 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

NCG-320M.I

GigE Area-Scan Camera NCG-320M.I (IP65/67)

C-Mount
1/1.8″ CCD sensor, progressive scan, monochrome
Resolution: 1624 x 1228 pixels
Pixel size: 4.4 µm x 4.4 µm
Frame rate: max. 27 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 179 mA, P: 4.3 W
• PoE: U: 48 V DC, I: 98 mA, P: 4.7 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

NCG-320C.I

GigE Area-Scan Camera NCG-320C.I (IP65/67)

C-Mount
1/1.8″ CCD sensor, progressive scan, color
Resolution: 1624 x 1228 pixels
Pixel size: 4.4 µm x 4.4 µm
Frame rate: max. 27 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 179 mA, P: 4.3 W
• PoE: U: 48 V DC, I: 98 mA, P: 4.7 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

Item No.	Description

NCG-323M.I

GigE Area Scan Camera NCG-323M.I (IP65/67)

C-Mount
1/1.2″ CMOS sensor, progressive scan, monochrome
Resolution: 1920 x 1200 pixels
Pixel size: 5.86 µm x 5.86 µm
Frame rate: max. 53 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 146 mA, P: 3.5 W
• PoE: U: 48 V DC, I: 79 mA, P: 3.8 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

NCG-323C.I

GigE Area Scan Camera NCG-323C.I (IP65/67)

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. 53 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 146 mA, P: 3.5 W
• PoE: U: 48 V DC, I: 79 mA, P: 3.8 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

NCG-340M.I

GigE Area-Scan Camera NCG-340M.I (IP65/67)

C-Mount
1″ CMOS sensor, progressive scan, monochrome
Resolution: 2040 x 2044 pixels
Pixel size: 5.5 µm x 5.5 µm
Frame rate: max. 29 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 150 mA, P: 3.6 W
• PoE: U: 48 V DC, I: 80 mA, P: 3.8 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 mm

NCG-340C.I

GigE Area-Scan Camera NCG-340C.I (IP65/67)

C-Mount
1″ CMOS sensor, progressive scan, color
Resolution: 2040 x 2044 pixels
Pixel size: 5.5 µm x 5.5 µm
Frame rate: max. 29 fps
GigE output: M12 female connector, X-coded
incl. 44 mm lens tube (IP65/67)
Electrical data:
• external: U: 24 V DC, I: 150 mA, P: 3.6 W
• PoE: U: 48 V DC, I: 80 mA, P: 3.8 W
Dimensions: 49.5 mm x 49.5 mm x 98.7 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

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

Light Sources

CIS-0001/M12

Homogeneous top light for 24 VDC

Maximum object area: 25 x 25 mm
Light source: red LED
Power requirements: 24V DC

CIS-0002/M12

Homogeneous top light for 24 VDC

Maximum object area: 50 x 50 mm
Light source: red LED
Power requirements: 24V DC

CC-FL027x027/W

Area light LED 27 x 27 mm

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

CC-FL043x035/W

Area light LED 43 x 35 mm

Lighted area: 43 x 35 mm²
Light source: LED white (6600 K)
Power requirements: 24 VDC / 3 W
Dimension: 45 x 47 x 15 mm³

CC-FL051x051/W

Area light LED 51 x 51 mm

Lighted area: 51 x 51 mm²
Light source: LED white (6600 K)
Power requirements: 24 VDC / 5,2 W
Dimension: 53 x 63 x 15 mm³

PLA-0021-M8

Area light LED 100 x 100 mm

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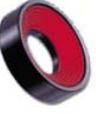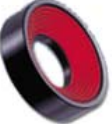**Dimension: 140mm x 135mm x 20mm**

PLA-0030/W

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

Item No.	Description
CC-BL041x016/W	**High-Power LED-Light**
	Lighted area: 41 x 16 mm² **Light source: LED white** **Power requirements: 24 VDC / 1,9 W** **Dimension: 53 x 20 x 20 mm³**
CC-BL080x016/W	**High-Power LED-Light**
	Lighted area: 80 x 16 mm² **Light source: LED white** **Power requirements: 24 VDC / 3,8 W** **Dimension: 92 x 20 x 20 mm³**
CC-BL074x030/W	**High-Power LED-Light**
	Lighted area: 74 x 30 mm² **Light source: LED white** **Power requirements: 24 VDC / 5,7 W** **Dimension: 86 x 34 x 20 mm³**
TIS-0011 R-24V	**Diffuse ring light LED D 130**
	External dimensions: 125 mm **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**

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)**

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)

Lenses

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

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

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.**

**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.**

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!

Item No.	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**