



Designed for Productivity



## INSPECTIS C12 High Definition Digital Microscope

with built-in SD-Card Image Capture

Plug & Play, Reliable and Cost Effective High Definition Camera Microscope designed for:



- Micro assembly
- Micro mechanics
- Medical devices
- Quality control
- Non-contact measurements
- Documentation
- Precision magnification
- Electronics inspection
- Etymology
- Repair and rework
- Forensics
- Presentation and training

All-in-One optical digital inspection system with 12:1 optical zoom, auto focus, integrated illumination, on-board controls and SD-card image capture. Produces crisp picture of your inspection objects up to 90x magnification directly on LCD monitor or PC.

Built-in Class I Laser Pointer



Antistatic Housing



*“Reduce the time spent on inspection”*

# Designed for ergonomic use

Inspectis C12 provides relief to eyes, neck and shoulders through the unique ergonomic design and 245mm working distance. By allowing operators to sit comfortably in a good working position, their inspection tasks can be carried out more efficiently.

C12 offers true ease of use with minimal interaction needed with controls and settings. All basic parameters such as zoom, brightness and colour levels can be controlled by the user through on-board buttons on top of the device.

When required the optional remote control allows the excellence of the imaging system to be exploited further and additional useful inspection aids to be selected. Camera and lens attributes, including focus, aperture size, image contrast and white balance, are all controllable and features such as the zoom factor display and crosshair overlay on live image, can be turned on. In addition 2 memory settings can be set and controlled allowing optimized settings to be saved and recalled for individual samples. To further simplify operations selected functions can be controlled by a foot pedal.

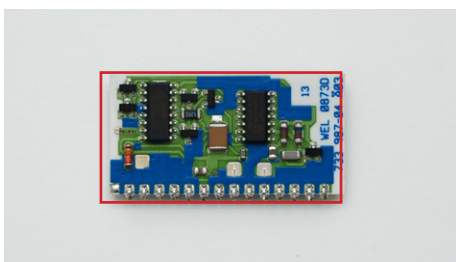
The Inspectis C12 camera significantly reduces the time spent on inspecting parts compared with other optical visual systems.



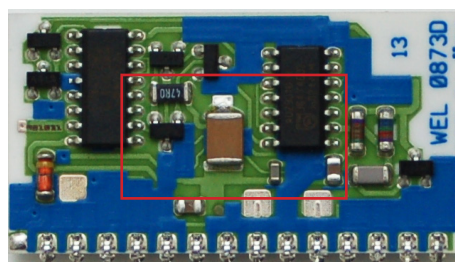
A built-in laser pointer aims at the area of interest and assists in locating it on the screen.

Due to large size of its image sensor and pixel elements, C12 provides excellent image of solder joints on electronic PCBs with minimum glare and reflections.

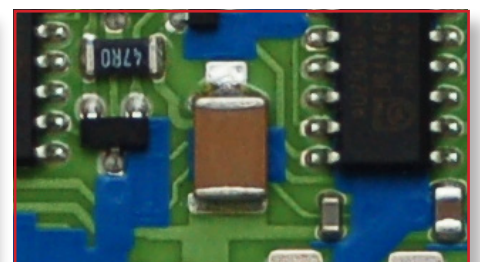
*”Optimized for optical inspection and repair of electronic PCBs”*



x1 zoom, 2.5x magnification



x6 zoom, 15x magnification



x12 zoom, 30x magnification

# Making inspection easier

Connect C12 camera to a High Definition display or your PC via Inspectis' plug-&-play USB3.0 video grabber and take advantage of the astonishing image resolution, high contrast and true colours in your optical inspection work.

Grab still pictures directly to SD-card or to your computer via the optional USB3.0 adapter. Perform non-contact dimensional measurements, analyse your inspection object and create certificates or reports with easy-to-use Inspectis Metrix Pro software.

On board Camera Controls

Rigid Aluminum Housing



Integrated LED illumination

ESD protected

SD-Card Image Capture

Zoom Optics with AutoFocus

HDMI output

Laser pointer



Stable Base

HDMI-to-USB3.0 adapter for PC/Laptop connection

Image View, Capture and Metrology software



Advanced Remote Camera Control

System's standard optics with 2.5 - 30x magnification (27" monitor) is comparable to common inspection microscopes.

If further magnification is needed, a wide range of +1, +2, +5 and +10 diopter Macro Lenses can be added to magnify up to 90x.

*"Designed according to industry standards"*

# Specifications

## System:

Video Output	HD 720p/60Hz, 720p/50Hz via HDMI female socket on the rear panel
Imager	1/3" CMOS, SONY ~ 1.4 mega pixels
Image Capture	SD-Card 32GB max. or via HDMI-USB3.0 adapter and software directly to computer
Onboard Controls	Zoom, Iris, Auto Focus on/off, White Balance
Remote Control Unit (optional)	Zoom, Iris, Manual/Auto Brightness, Manual/Auto Focus, White Balance, Picture Quality Mode, Display Text, Haircross overlay, Image Rotate, Image Freeze, 2 Memory Save/Recall
Illumination	Integrated Long-life 18x ultra bright pure white LEDs with direction adjustment
Storage Environment	-20° - +60° C, 20 - 95% RH, non-condensing
Operating Environment	-5° - +40° C, 20 - 95% RH, non-condensing
Size/Weight	395 x 240 x 360 mm including metal base, 4.2 kg. including metal base

## Optics:

Lens system	12x Optical Zoom with Auto Focus
Working distance	240 mm (from lens to object)
Magnification at x1 zoom factor	~ 2.5x on 27" monitor
Magnification at x12 zoom factor	~ 30x on 27" monitor (~ 92x with +10 macro lens)
Field of View at x1 zoom factor	~ 232 x 130 mm
Field of View at x12 zoom factor	~ 20 x 11.3 mm (~ 6.5 x 3.7 mm with +10 macro lens)
Laser pointer	Class I red LED laser with automatic through-optics alignment



## Ordering numbers Inspection Systems:

Item name	Order No.		
Inspectis C12, Digital Macroscope Antistatic with Laser pointer	NK-010	Macro lens +1 diopter	HD-030
Inspectis C12, Digital Macroscope Antistatic with Laser pointer and SD-Card digital image capture	NK-010-C	Macro lens +2 diopter	HD-021
		Macro lens +5 diopter	HD-022
		Macro lens +10 diopter	HD-023
		RingLight White LED with detachable diffuser	HD-024
		Polarization filter for Ring Light	HD-024-P
		RingLight UV 365-375nm wavelength LED	HD-025
		XY Floating Board	HD-028
		Tilt Board	HD-029
Remote Camera Control with Advanced Adjustments	HD-020	HDMI to USB3.0 adapter with software Light	HD-031
Foot switch for Remote Camera Control (2 pedals)	HD-027	HDMI to USB3.0 adapter with software Pro	HD-032
		HDMI to USB3.0 adapter (device only)	HD-033
		Aluminium carrying case	HD-040

## Ordering numbers accessories:



**NIKON METROLOGY  
STRATEGIC PARTNER**

Distributor:

Nikon Metrology NV | Europe  
[www.nikonmetrology.com](http://www.nikonmetrology.com)



\* Display is not included

**INSPECTIS**

Quality of Inspection

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