



USB handheld microscopes
with DinoCapture measuring software

Application:

For industrial inspections, quality control, training, mounting, repairs and material defect analyses

Execution:

- CMOS Color high-resolution sensor
- Adjustable LED lighting
- MicroTouch button for saving live images/videos on PC
- Record images and videos
- USB 2.0 interface
- Housing dimensions, diameter 32 x 105 mm
- DinoCapture software: 2D image measurement (line, radius, diameter, arc, polygon, angle), insertion of texts, direct output of measured data to Excel

Advantage:

- Rapid archiving and recording of components under the USB handheld microscope
- Low-cost entry-level equipment for image viewing and measuring
- High flexibility with exchangeable attachments
- Automatic magnification reading

Delivery:

USB handheld microscope with USB cable (L = 1.8 m), CD with DinoCapture software

Technical data:

- Cable length: 1.8 m
- Data transmission type: USB
- Software: DinoCapture



Ident. No. 062-071



Ident. No. 072-074



Ident. No. 076



Ident. No. 077-078

Model	AM4113ZT	AM4113TL	AM4515ZT	AM7013MZT	AD7013MTL	AM7915MZT	AM7915MZTL
Camera resolution (Mpix)	1.3	1.3	1.3	5.0	5.0	5	5
Magnification	10 to 70-times	10 to 90-times	20 to 220-times	10 to 70-times	10 to 90-times	10 to 220-times	20 to 220-times
Max. magnification	200-times	-	-	200-times	-	-	-
Image resolution	1280 x 1024 pix	1280 x 1024 pix	1280 x 1024 pix	2592 x 1944 pix	2592 x 1944 pix	2592 x 1944 pix	2592 x 1944 pix
Min. working distance (mm)	0.5	45	0.5	0.5	45	4	29.1
Max. working distance (mm)	60	150	60	60	150	136	234.5
Polariser	Yes	No	Yes	Yes	No	Yes	Yes
Material of the housing	Plastic	Plastic	Plastic	Metal	Metal	Aluminium	Aluminium
41613... Ident. No.	062	071	076	072	074	077	078

Prod. Gr. 4AC



Stands for USB microscopes

Application:

Ident. No. 080: Standard column stand with focussing facility via turning knob. 50 mm height adjustment. Holder on column rotatable by 360° with focussing facility.

Ident. No. 081: Column stand with articulated arm and focussing facility via turning knob. 200 mm height adjustment. Holder on column rotatable by 360° with focussing facility.

Ident. No. 083: Column stand with extension arm and focussing facility via turning knob. 200 mm height adjustment, 250 mm horizontal extension arm. Holder on column rotatable by 360° with focussing facility.

Ident. No. 085: Sturdy column stand with large boom arm, fast vertical adjustment and fine focus adjustment. 180 mm height adjustable, 150 mm horizontal extension arm incl. 150 mm extension, holder on column rotatable by 360°, focussing facility.

Ident. No. 087: Robust column stand. Base 155 x 220 mm, 182 mm height adjustable, 100 mm adjustment in Y axis and 90 mm adjustment in X axis, X and Y adjustment via toothed racks, Z adjustment via threaded rod

Technical data:

- Stand design: Column stand



Ident. No. 080
MS-34B stand



Ident. No. 081
MS-35B stand



Ident. No. 083
MS-36B stand



Ident. No. 085
RK-10A



Ident. No. 087

Model	MS-34B	MS-35B	MS-36B	RK-10A	MSAK890
Width x height x depth	75 x 130 x 115 mm	150 x 305 x 220 mm	150 x 305 x 220 mm	150 x 230 x 220 mm	150 x 240 x 220 mm
41613... Ident. No.	080	081	083	085	087

Prod. Gr. 4AC

Glass calibration standard

For USB handheld microscopes with DinoCapture software

Application:

For calibrating the USB microscope in conjunction with DinoCapture software

Execution:

- Scale lengths/graduations (in mm): 50/1 mm, 10/0.1 mm, 2/0.01 mm

41613... Ident. No. 091

Prod. Gr. 412

Source: Hahn+Kolb Werkzeuge GmbH
Technical data subject to change.
Availability subject to country specific rules and regulations.

www.iconridge.com



KERN Stereo microscopes
incl. three interchangeable lenses

Application:
for simple viewing of mechanical components, electronic PCBs and for general surface inspections. Ideal for workshops and training facilities

- Execution:**
- Interchangeable lenses for 10x, 20x and 40x magnification
 - binocular lens barrel with 45° viewing angle
 - Rotatable eyepieces with dioptre adjustment
 - LED reflected and transmitted lighting, individually dimmable

- Advantage:**
- 45° viewing angle for convenient and effortless work

- Technical data:**
- Eye-piece type: WF 10x/20
 - Field of view figure: 20
 - Lens tube type: Binoculars
 - Stand design: Section pillar
 - Incident light: LED spotlight
 - Tripod plate width: 164 mm
 - Transmitted light: LED
 - Tripod plate depth: 202 mm
 - Column height: 225 mm



41612... | Ident. No. 025

Prod. Gr. 412

KERN Stereo zoom microscope
Includes digital camera and image processing software

Application:
For viewing mechanical components, electronic PCBs and for general surface inspections in quality assurance, in production environments and in education. The digital camera with Microscope VIS image processing software can record images and video, measure, document and add information to viewed parts.

- Execution:**
- 7.5x to 45x magnification
 - manual zoom with zoom factor 6.4 : 1
 - Adjustable LED reflected and transmitted lighting
 - Incident light: LED spot, single-headed and LED ring light, dimmable
 - LED transmitted light, dimmable
 - Trinocular lens barrel with 45° fixed viewing angle

- 3.1 megapixel digital camera, USB 2.0, CMOS 1/2"
- incl. C-Mount adapter, 1/2", 0.5x
- Rotatable eyepieces with dioptre adjustment on both sides

- Advantage:**
- Fully configured system, for fast documentation tasks
 - Spatial depth in visual view
 - User-friendly image processing software

- Technical data:**
- Model: OZL 464
 - Lens tube type: Trinocular
 - Eye-piece type: 10x wide field
 - Pillar diameter: 32 mm
 - Software: Microscope VIS



41613... | Ident. No. 185

Prod. Gr. 412

KERN Stereo zoom microscope
binocular or trinocular, with manual zoom

Application:
For viewing mechanical components, electronic PCBs and for general surface inspections in quality assurance, in production environments and in education.

- Execution:**
- 7.5x to 45x magnification
 - Manual zoom with zoom factor 6.4 : 1
 - LED ring light, 3 W, dimmable
 - Ident. No. 180:**
 - binocular lens barrel, with 45° viewing angle, rotatable eyepieces
 - widefield eyepieces, HSWF10x/23 mm
 - working distance 110 mm
 - visual field diameter 32.8 to 5.1 mm
 - Ident. No. 185:**
 - Trinocular lens barrel, with 45° viewing angle, rotatable eyepieces
 - Light distribution 50:50
 - Widefield eyepieces, HSWF 10x/23 mm
 - Working distance 110 mm
 - Visual field diameter 32.8 to 5.1 mm

- C-Mount adapter, 0.5x, for mounting a USB digital camera

- Advantage:**
- Convenient and effortless work thanks to 45° inclination
 - Clear and distortion-free images with Greenough lens system

Delivery:
Ident. No. 180: Stand with LED ring light, microscope head and holder, eyepieces, eye cups and dust cover

Ident. No. 185: Stand with LED ring light, microscope head and holder, eyepieces, eye cups, 0.5x C-Mount adapter and dust cover

Notes:
Ident. No. 185: Ideal for documentation tasks when used in conjunction with an optional digital camera and software.

- Technical data:**
- Eye-piece type: HSWF 10x/23
 - Pillar diameter: 25 mm



Ident. No. 180



Ident. No. 185

Lens tube type				Binoculars	Trinocular
Stereo zoom microscope	41611...		Ident. No.	180 ○	185 ○
	41614...	USB 2.0 digital camera 3.1 MP	Ident. No.	-	340 ○
Digital camera	41614...	USB 3.0 digital camera 3.1 MP	Ident. No.	-	350 ○
	41614...	USB 3.0 digital camera 5.1 MP	Ident. No.	-	360 ○
	41614...	HDMI/USB 2.0 digital camera 2 MP	Ident. No.	-	370 ○

Prod. Gr. 412

i LED light
Supplementary accessories for ZEISS stereo microscopes STEMI 305 and 508

Suitable LED lighting for ZEISS stereo microscopes STEMI 305 and 508.

Reflected lighting:

- K-LED spot light, zoom- and height-adjustable for oblique and side lighting with heavy shadowing
- K-LED double spot light, self-supporting, for variable oblique lighting with clear shadow effect

- K-LED ring light, partitioning, for shadow-free ring lighting and oblique segment lighting:
- full circle, semi-circle, quadrant, 2 opposite quadrants

Controller:

- on/off switch and dimmer for ZEISS spot, double spot and ring lights
- Incl. magnetic plate, for attaching the controller to a ZEISS microscope with arm stand



41613705



41613715



Fig.: Controller 41613730 + ring lamp 41613720

Designation	K-LED spot light	K-LED double spot light	K-LED ring light	K-LED controller
ZEISS product number	435525-9010-000	435525-9020-000	435525-9050-000	435525-9200-000
HK product number	41613705	41613715	41613720	41613730

PHOTONIC LED ring light and LED transmitted light
LED illumination for microscopes

Application:

For even, shadow-free and homogeneous illumination of objects.

Execution:

- LED ring light with 40 LEDs and continuous brightness control
- Control unit with two connectors for two lighting units (LED ring light and LED transmitted light)
- **Ident. No. 676:** Without segment control
- **Ident. No. 682:** With segment control

Advantage:

- **Ident. No. 682:** Selectable segments: Full circle, half circle, 2 opposite quarter circles, quarter circle and rotation

Delivery:

Control unit and power supply unit

Technical data:

- Outer diameter: 94 mm
- Internal diameter: 66 mm
- Number of LEDs: 40 PCS
- Colour temperature: 5000 K
- Lamp type: LED



Ident. No. 676

Segment control system	No	Yes
41613... Ident. No.	676 ○	682 ●

Prod. Gr. 412

PHOTONIC Swan neck light
LED Hi-Power spot, 2 arms

Application:

For flexible and pinpoint incident light tasks in microscopy. The LED HI-Power Spot can be fixed directly to the stand via an adapter and is therefore suitable for individual, space-saving applications.

Execution:

- Flexible gooseneck arms
- Two high-quality LED HI-Power Spots
- Spotlights can be switched separately
- Control unit with continuous brightness control

Advantage:

- Homogeneous, neutral white light, continuously dimmable, ripple and flicker-free

- Brightness comparable to one 150 W halogen light source

Delivery:

LED Hi-Power Spot, 2 arms, control unit and power supply unit

Technical data:

- Number of arms: 2 PCS
- Arm length: 480 mm
- Colour temperature: 5000 K
- Lamp type: LED



2-arm LED Hi-Power spot fitted on a round column stand

41613... | Ident. No. 761

Prod. Gr. 412

PHOTONIC adapters
For LED Hi-Power spot with 2 arms

Application:
For attaching LED Hi-Power Spot lamps to round column stands with diameters of 25, 30, 32, 35 mm

Execution:
▪ For column diameters of 25, 30, 32, 35 mm



41613... | Ident. No. 765

Prod. Gr. 412

PHOTONIC LED cold light source
lighting unit without bulb for microscopes

Application:
For a broad range of lighting applications in microscopy. Allows the highest possible light intensities to be focussed on a surface. Sensitive objects are also protected against intense heat.

▪ Remote control via USB and foot switch (toggle standby, toggle presets, dimming)
▪ All settings (brightness/shutter/strobe parameters) can be easily configured

Execution:
▪ Robust metal housing
▪ Infinitely variable brightness regulation
▪ ESD connector
▪ **Ident. No. 637:**
▪ Electronic shutter function

Advantage:
▪ High light density over a small surface
▪ Ideal for small object fields, e.g. 40x magnification

Technical data:
▪ Lamp type: LED
▪ ESD bush: Yes
▪ Min./max. nominal voltage: 100 / 240 V/DC



Ident. No. 635



Ident. No. 637

Model	F1	F3000
Colour temperature (K)	5500	5800
Life time of illuminant (h)	50000	30000
Input voltage (V/DC)	24	12
41613... Ident. No.	635	637

Prod. Gr. 412

PHOTONIC Gooseneck illuminator
Fibre optic light guide, 2-arm

Application:
2-arm gooseneck illuminator. In combination with a PHOTONIC LED cold light source, ideal for flexible, pinpoint incident lighting tasks in microscopy. The LED Hi-Power Spot can be fixed directly to the stand via an adapter and is therefore suitable for individual,

space-saving applications.

Technical data:
▪ Number of arms: 2 PCS
▪ Arm length: 550 mm

41613... | Ident. No. 640

Prod. Gr. 412



PHOTONIC Split ring light with front focusing element
For LED cold light source

Application:
Split ring light with focussing attachment for even, shadow-free and homogeneous illumination of objects. Incl. ring adapter diameter 66/58 mm

Technical data:
▪ Outer diameter: 94 mm
▪ Internal diameter: 66 mm
▪ Active optical fibre diameter: 9 mm

Execution:
▪ Fibre optic cable length 750 mm

41613... | Ident. No. 645

Prod. Gr. 412

