

PEAK Measuring Microscope 2034-CIL Series



- Portable Wide Stand Microscope
- 40x, 60x, 100x, 150x, 200x, 300x magnification
- 0.05 - 0.001 mm measuring scale
- Coaxial LED Illumination with dimmer
- Ideal for reflective surfaces

The 2034-CIL microscopes are fitted with coaxial illumination (Köhler illumination). This additional illumination is reflected into the light beam from the side by a system of prisms. This prevents irritating reflections particularly with highly glossy materials. This coaxial illumination is absolutely essential to check surface structures on smooth materials or for high contrast reproduction of colour pigments. The battery box included with the microscope contains two 1.5 Volt AA batteries and has a potentiometer to adjust the light intensity.

The optical system is identical with the 2034 and 2064-CIL series stand microscopes. The base is aluminium and is not available as an acrylic base. The 2034-CIL microscope can be combined with the special MST tripod for stability on rollers or curved surfaces. For further accessories see following pages.

Focusing the 2034-CIL is done by rotating the microscope body which is easier, especially at high magnification factors, compared to using the 2064-CIL. Subsequent revamping of the body makes version 2034-CIL slightly more expensive than the microscopes in the 2064-CIL series.

Depth measurements to an accuracy of 0.1mm are obtained by using the scale engraved on the focusing ring together with the needle on the coaxial tube. Simply focus on different levels of an object and read the difference off this scale.

You can also convert a Peak microscope into a digital microscope with addition of a USB camera or iZoom adapter for using your iPhone. The ocular (eyepiece) is easily replaced with an eyepiece camera and connected via USB to a computer. With the included software you have a professional environment for calibrated measurements, image capture or video processing.



Note: It is essential to use the 2064-CIL-20 model in combination with the special MST tripod; otherwise the additional coaxial illumination prevents adjustment of the working distance. This applies only for the 2x lens in combination with coaxial illumination.

Specification

	2034-CIL-20-MST	2034-CIL-40	2034-CIL-60	2034-CIL-100	2034-CIL-150	2034-CIL-200	2034-CIL-300
Magnification factor	20 x	40x	60x	100x	150x	200x	300x
Focusable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scale focusable	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Field of view	7.2 mm	3.6 mm	2.4 mm	1.45 mm	0.96 mm	0.72 mm	0.48 mm
Measuring length	6.0 mm	3.0 mm	2.0 mm	1.2 mm	0.9 mm	0.6 mm	0.4 mm
Scale	0.1 mm	0.05 mm	0.02 mm	0.01 mm	0.005 mm	0.002 mm	0.001 mm
Working distance	36.0 mm	18.7 mm	10.8 mm	5.7 mm	9.2 mm	6.7 mm	4 mm
Numerical aperture	0.06	0.12	0.15 mm	0.19 mm	0.24 mm	0.35 mm	0.4 mm
Focal length	35.0 mm	22.0 mm	16.5 mm	10.7 mm	7.3 mm	5.7 mm	3.9 mm
Dimensions mm	160 x 110 x 190	63 x 172 mm	63 x 172 mm	63 x 172 mm	63 x 172 mm	63 x 172 mm	63 x 172 mm
Weight	820 grams	241 grams	241 grams	241 grams	241 grams	241 grams	241 grams
Case	Included						
Standard scale	Included as standard feature						
Eyepiece	10 x	10 x	10 x	10 x	10 x	10 x	10 x
Lens	2 x	4x	6x	10x	15x	20 x	30 x
Display	Mirror image						

Prices

Order no.	Description	Price excl. VAT.
2034-CIL-20-MST	2034-20 Measuring microscope with scale 0,1 mm, 20x	£1050.00
2034-CIL-40	2034-40 Measuring microscope with scale 0,05 mm, 40x	£720.00
2034-CIL-60	2034-60 Measuring microscope with scale 0,02 mm, 60x	£740.00
2034-CIL-100	2034-100 Measuring microscope with scale 0,01 mm, 100x	£740.00
2034-CIL-150	2034-150 Measuring microscope with scale 0,005 mm, 150x	£800.00
2034-CIL-200	2034-200 Measuring microscope with scale 0,002 mm, 200x	£850.00
2034-CIL-300	2034-300 Measuring microscope with scale 0,001 mm, 300x	£970.00

Box contains: Microscope, coaxial light, pen light, batteries, instructions

PEAK accessories for measuring microscope 2034-CIL



Interchangeable Lenses

2034, 2054 and 2054-EIM series microscopes offer the possibility of changing the magnification factor by changing lenses. Four additional depressions are already present in the standard transport boxes for secure transportation of interchangeable lenses. The lenses have a screw thread for extremely simple changing. However the measuring scales require particular attention. If, for example, a microscope with a magnification factor of 100x is used with a 0.01 mm scale, the reading is incorrect when

the lens is changed. For this reason, always order the additional lens you intend to use for measurement together with the associated eyepiece. It is not necessary to change the ocular for simple visual checking.

Order no.	Description	Price excl. VAT.
OJ-020	2x objective for magnification 20x	£82.00
OJ-040	4X objective for magnification 40x	£82.00
OJ-060	6x objective for magnification 60x	£100.00
OJ-100	10-x objective for magnification 100x	£100.00
OJ-150	15x objective for magnification 150x	£145.00
OJ-200	20x objective for magnification 200x	£227.00
OJ-300	30x objective for magnification 300x	£318.00



Interchangeable Eyepiece with millimetric graduation

All eyepiece have a magnification factor of 10x. The built in scale is calculated to match the lense. The scale can be focused separately in the eyepiece. The eye cup is already included with the stand microscope ordered.

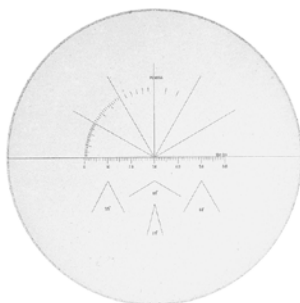
Order no.	Description	Price excl. VAT.
OKU-020	Eyepiece with scale 0,1 mm	£100.00
OKU-040	Eyepiece with scale 0,05 mm	£100.00
OKU-060	Eyepiece with scale 0,02 mm	£100.00
OKU-100	Eyepiece with scale 0,01 mm	£100.00
OKU-150	Eyepiece with scale 0,005 mm	£100.00
OKU-200	Eyepiece with scale 0,002 mm	£100.00
OKU-300	Eyepiece with scale 0,001 mm	£100.00



Interchangeable Eyepiece with inch graduation

All eyepiece have a magnification factor of 10x. The built-in scale is calculated to match the lens. The scale can be focused separately in the eyepiece. The eye cup is already included with the stand microscope ordered.

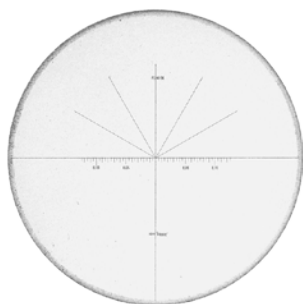
Order no.	Description	Price excl. VAT.
OKU-020	Eyepiece with scale 0.005"	£100.00
OKU-040	Eyepiece with scale 0.002"	£100.00
OKU-060	Eyepiece with scale 0.001"	£100.00
OKU-100	Eyepiece with scale 0.0005"	£100.00
OKU-150	Eyepiece with scale 0.0002"	£100.00
OKU-200	Eyepiece with scale 0.0001"	£100.00



Interchangeable Eyepiece with Special Metric graduation

Special Eyepiece containing both metric scale and angles for use with either 20x or 40x magnification. All eyepiece have a magnification factor of 10x. The built-in scale is calculated to match the lens magnification and can be focused separately in the eyepiece. The eye cup is already included with the stand microscope ordered. Select the magnification to order the correct eyepiece.

Order no.	Description	Price excl. VAT.
OKU-PS-55	Eyepiece with scale 0.1mm and angles for magnification 20x	£100.00
OKU-PS-65	Eyepiece with scale 0.05mm and angles, for magnification 40x	£100.00



Interchangeable Eyepiece with Special Inch graduation

Special Eyepiece containing both inch scale and angles for use with either 20x or 40x magnification. All eyepiece have a magnification factor of 10x. The built-in scale is calculated to match the lens magnification and can be focused separately in the eyepiece. The eye cup is already included with the stand microscope ordered. Select the magnification to order the correct eyepiece.

Order no.	Description	Price excl. VAT.
OKU-PS-56	Eyepiece with scale 0.005" and angles for magnification 20x	£100.00
OKU-PS-66	Eyepiece with scale 0.002" and angles, for magnification 40x	£100.00



Tripod MST

Special MST tripod for 2034-CIL, 2034-EIM-CIL, 2064-CIL series microscopes. The coaxial illumination limits the focusing range of the CIL microscopes. The mounts for the support rollers are adjustable laterally to maintain the working distance for all interchangeable lenses. Support rollers are coated with silicon-free material. The MST is also available as a special mode with rolling support rollers.

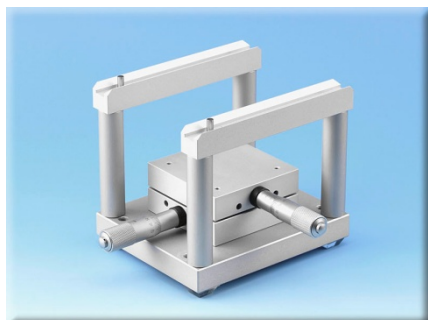
Order no.	Description	Price excl. VAT.
MST	MST Tripod for microscopes	£340.00
MST-R	MST Tripod with rotating support rollers	£590.00



MST-X Tripod

The X-adjustment in the MST tripod is a further option. The 5 mm adjustment range helps to evaluated adjacent measuring points precisely at high magnification factors. The X-adjustment is not possible in combination with rolling support rollers.

Order no.	Description	Price excl. VAT.
MST-X	MST –X Tripod for microscopes	£590.00



Tripod ST-CIL

Precision tripod with segment columns, which can be installed to obtain the required distance. An X-Y table with two 25 mm measuring spindles with graduations of .01 mm is mounted in the used for combining MST tripod. The MST additional rotating



tripod. The ST-CIL tripod can be microscopes 2034 or 2054 with the tripod is also available with an table.

Order no.	Description	Price excl. VAT.
ST-CIL	Tripod with X-Y Table	£750.00
ST-CIL-RT-85	Tripod with X-Y and rotating table	£1,100.00



Tripod CV-Mini-2034

The CV-Mini 2034 tripod was designed to allow inspection and measurements without contact. The aluminium extension arm can be rotated 360° on the VA shaft. An additional micro-adjustment is integrated into the extension arm. The 20 mm aluminium bottom plates is anodised and has dimensions of 230 x 150 mm. Larger support plates can be produced as special products. The microscope with tripod is supplied together with an elegant synthetic transport case (only when ordered as set)..

Order no.	Description	Price excl. VAT.
CV-Mini-2034	Tripod for microscopes	£350.00

USB Camera



Turn your Peak microscope into a digital microscope with a USB camera from Dino-Lite. You can easily replace the ocular (eyepiece) of Peak microscopes with the DinoEye eyepiece camera and connect it via USB to your computer. With the included DinoCapture software you have a professional software environment for image or video processing, including calibrated measurement features.

The DinoEye Camera fits directly into 23mm oculars.
Two models are available with either 1.3 or 5.0

megapixel. **Note:** the field of view using either camera is less than using the eyepiece due to the size of the sensor inside the camera, so it maybe necessary to change the objective lens for a lower magnification when using the camera. The AM7025X offers a wider field of view than the AM4023.



Order no.	Description	Price excl. VAT.
AM4023	DinoEye AM4023 Eyepiece USB Microscope Camera, 1.3MP, 23mm ocular	£167.50
AM7025X	DinoEye AM7025x Eyepiece USB Microscope Camera, 5.0MP, 23mm ocular	£465.00

iZoom Microscope Adapter for iPhone



Capture microscopic images using your iPhone and the Peak microscope. The iZoom adapter couples an iPhone to Peak microscopes enabling the high-resolution iPhone camera to be used to capture the entire field of view. Use all the standard functions of the iPhone to easily capture, edit and send microscopic images with significantly higher image quality than possible with many microscope cameras.

The iZoom adapter has been designed by optical professionals for no shadowing and is precision made out of aluminium to ensure a perfect fit to both iPhone and microscope. Made in Germany. Quick & simple connection - just insert the iPhone and connect the adapter to the microscope - ready in seconds. The iZoom adapter is available for the iPhone : 4/4S, 5/5S, 6/6S, 7/7S

Order no.	Description	Price excl. VAT.
iZoom-4-4S	iZoom Adapter for using iPhone 4-4S with Peak 2034 Microscope	£200.00
iZoom-5-5S	iZoom Adapter for using iPhone 5-5S with Peak 2034 Microscope	£200.00
iZoom-6-6S	iZoom Adapter for using iPhone 6-6S with Peak 2034 Microscope	£220.00
iZoom-7-7S	iZoom Adapter for using iPhone 6-6S with Peak 2034 Microscope	£250.00

Aluminium Light Holder & Maglite Torch



This precision produced light holder is designed for applications which are not suited to the original plastic light holders and pen light supplied by Peak. Microscopes are occasionally dropped in industrial use and on the shop floor. In such cases this robust metal light holder is not damaged. The holder is designed to suit a Mini-Maglite pen torch.

Two O-rings on the inside ensure the Maglite. The angle of the Maglite the two knurled VA screws.



wear-free, fine positioning of can be adjusted precisely with

Order no.	Description	Price excl. VAT.
LMH-A	Aluminium light holder only	£115.00
LMH-A-MAG	Aluminium light holder & Maglite bundle	£130.00

Replacement Parts

Original Plastic Light Holder



This is the original pen light holder supplied by Peak.

Order no.	Description	Price excl. VAT.
LHM	Plastic light holder only	£18.00

Eye Cup for Peak Microscope



Order no.	Description	Price excl. VAT.
GR-2034	Eye Cup	£9.00