

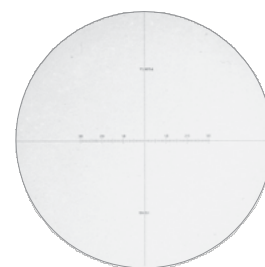
PEAK Measuring Microscope 2034 Series



- Portable Wide Stand Microscope
- 40x, 60x, 100x, 150x, 200x, 300x magnification
- 0.05 - 0.001 mm measuring scale
- Interchangeable lenses
- Smooth coaxial focussing

One of the primary advantages of the Peak 2034 series stand measuring microscope is its easy handling. Simply set the microscope on the field to be measured and focus – that's all. Thanks to the clear acrylic base the surface to be inspected can be viewed from all sides, making it easy to find the point to be measured. Focusing is accomplished by coaxial rotation of the tube. The short light path through the microscope makes the object appear reversed.

The optical system consists of a lens and an eye cup. All lenses are coated for sharp, high contrast images. Seven types of lenses are available: 2x, 4x, 6x, 10x, 15x, 20x and 30x. The eyepiece has a magnification factor of 10x and the focal plane is equipped with a scale. Contamination of the scale with dust is not possible thanks to the Huygens design with focal plane in the lens system. The lens closest to the eye in the ocular can be moved by turning the adjustment ring, so that the scale can be adjusted to match the eye correction of the observer. The eyepiece associated with each magnification factor (object lens) can be replaced by simply pulling out. If additional lenses are to be used for visually checking purposes only, additional oculars are not required.



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.

The side illumination allows measurements on dark surfaces or in darkened rooms. Two 1.5 Volt AA batteries are required for operation. The microscope is supplied in a padded transport box offering secure transport and space for four additional lenses which are available as accessories.

Optional use of the MKH stand gives the 2034 series microscopes greater stability and is an essential accessory for reliably checking rollers and other cylindrical objects. For further accessories see following pages. You can also convert a Peak microscope into a digital microscope with addition of a USB camera. The ocular (eyepiece) is easily replaced with an eyepiece camera and connected via USB to your computer. With the included software you have a professional environment for calibrated measurements, image capture or video processing



Specification

	2034-20	2034-40	2034-60	2034-100	2034-150	2034-200	2034-300
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	63 x 172 mm	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	241 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	20x	30x
Display	Mirror image						

Prices

Order no.	Description
2034-20	2034-20 Measuring microscope with scale 0,1 mm, 20x
2034-40	2034-40 Measuring microscope with scale 0,05 mm, 40x
2034-60	2034-60 Measuring microscope with scale 0,02 mm, 60x
2034-100	2034-100 Measuring microscope with scale 0,01 mm, 100x
2034-150	2034-150 Measuring microscope with scale 0,005 mm, 150x
2034-200	2034-200 Measuring microscope with scale 0,002 mm, 200x
2034-300	2034-300 Measuring microscope with scale 0,001 mm, 300x

Accessories for PEAK measuring microscope 2034



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

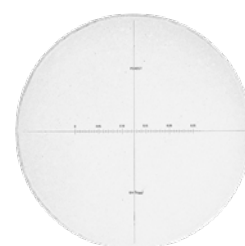
the lens is changed. For this reason, always order the additional lens you intend to use for measurement together with the associated eyepiece. It is not necessary to change the ocular for simple visual checking.

Order no.	Description
OJ-020	2x objective for magnification 20x
OJ-040	4X objective for magnification 40x
OJ-060	6x objective for magnification 60x
OJ-100	10-x objective for magnification 100x
OJ-150	15x objective for magnification 150x
OJ-200	20x objective for magnification 200x
OJ-300	30x objective for magnification 300x



Interchangeable Eyepiece with millimetric 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.

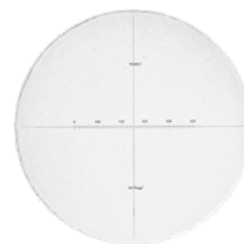


Order no.	Description
OKU-020	Eyepiece with scale 0,1 mm, for magnification 20x
OKU-040	Eyepiece with scale 0,05 mm, for magnification 40x
OKU-060	Eyepiece with scale 0,02 mm, for magnification 60x
OKU-100	Eyepiece with scale 0,01 mm, for magnification 100x
OKU-150	Eyepiece with scale 0,005 mm, for magnification 150x
OKU-200	Eyepiece with scale 0,002 mm, for magnification 200x
OKU-300	Eyepiece with scale 0,001 mm, for magnification 300x



Interchangeable Eyepiece with inch graduation

All eyepiece have a magnification factor of 10x. The inch graduation eyepiece are available for microscopes with magnification factors between 20x to 200x. 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.



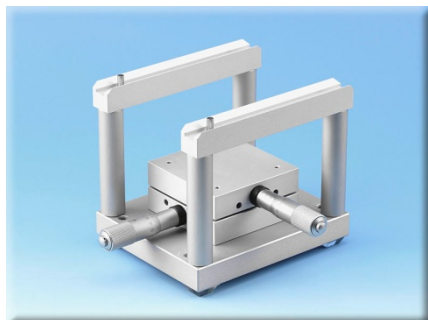
Order no.	Description
OKU-020	Eyepiece with scale 0.005", for magnification 20x
OKU-040	Eyepiece with scale 0.002" , for magnification 40x
OKU-060	Eyepiece with scale 0.001" , for magnification 60x
OKU-100	Eyepiece with scale 0.0005", for magnification 100x
OKU-150	Eyepiece with scale 0.0002", for magnification 150x
OKU-200	Eyepiece with scale 0.0001", for magnification 200x



Tripod MKH

Special MKH tripod for 2034, 2054 and 2054-EIM series microscopes. Provides stability on rollers, curved surfaces or in combination with a digital camera. Support rollers coated with silicone-free material. The microscopes are screwed to the tripod with a union nut. The MKH is also available as a special model with rotating support rollers.

Order no.	Description
MKH	MKH Tripod for microscopes
MKH-R	MKH Tripod with rotating support rollers



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 tripod. The ST-CIL tripod can be used for combining microscopes 2034 or 2054 with the MST tripod. The MST tripod is also available with an additional rotating table.



Order no.	Description
ST-CIL	Tripod with X-Y Table
ST-CIL-RT-85	Tripod with X-Y and rotating table



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
CV-Mini-2034	Tripod for microscopes

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:** both models have a built in magnification factor of 72.5x which replaces the 10x eyepiece, so it is important to select the objective lens for the required magnification. For example: with the 4x objective lens and 72.5x USB camera the resulting magnification will be 290x. The field of view will be less than with the eyepiece.



Order no.	Description
AM4023	DinoEye AM4023 Eyepiece USB Microscope Camera, 1.3MP, 23mm ocular
AM7023	DinoEye AM7023 Eyepiece USB Microscope Camera, 5.0MP, 23mm ocular

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 wear-free, fine positioning of the Maglite. The angle of the Maglite can be adjusted precisely with the two knurled VA screws.



Order no.	Description
LMH-A	Aluminium light holder only
LMH-A-MAG	Aluminium light holder & Maglite bundle