PEAK Measuring Microscope 2064-CIL-LED Series



The 2064-CIL-LED series measuring microscopes are equipped with coaxial as well as lateral illumination. Frequently it is not possible to positively identify surface structures with lateral illumination, particularly on chrome-plated, reflecting surfaces. Inspection is possible only when the light comes directly through the lens. The 2064-CIL with standard base is available with a magnification factor starting from of 40x. In combination with the MST tripod use of the 2x lens is also possible, providing a magnification factor of 20x. On rollers the microscope should always be used with the MST tripod. The additional lateral illumination allows, for example, inspection and measurement of halftone dots in printed matter. The battery box included with the microscope contains two 1.5 Volt AA batteries and has a potentiometer to adjust the light intensity.

The 2064-CIL-LED replaces an earlier product, 2054-CIL, and is now fitted with LED coaxial illumination providing significantly longer battery lifetime. In all other respects the models are the same. The 2054-CIL is no longer available.

The optical system is identical with the 2034 and 2064 series stand microscopes. The base is aluminium and is not available as an acrylic base. See below for further accessories.

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.

An eight megapixel miniature USB camera with integrated lens and autofocus feature can be attached simply to the eyepiece with the aid of an adapter. This allows images to be saved quickly on a laptop or PC. It is possible to use either the original camera driver software (in English only) or combine the system with the Metric BE (image visualisation and storage), which offers significantly more convenient operation. The quality of the images obtained with this high end industrial camera are impressive.



Specification

	2054-CIL-LED-20	2054-CIL-LED-40	2054-CIL-LED-60	2054-CIL-LED-100	2054-CIL-LED-150	2054-CIL-LED-200	2054-CIL-LED-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	160 x 110 x 190	69 x 172 mm	69 x 172 mm	69 x 172 mm	69 x 172 mm	69 x 172 mm	69 x 172 mm
Weight incl battery box	850 grams	410 grams	410 grams	410 grams	410 grams	410 grams	410 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	15 x	20 x	30 x
Display	mirror image						

Prices

Order no.	Description	Price excl. VAT.
2064-CIL-LED-20	2064-CIL-20 Measuring microscope with scale 0,1 mm, 20x	£P.O.A.
2064-CIL-LED-40	2064-CIL-40 Measuring microscope with scale 0,05 mm, 40x	£725.00
2064-CIL-LED-60	2064-CIL-60 Measuring microscope with scale 0,02 mm, 60x	£725.00
2064-CIL-LED-100	2064-CIL-100 Measuring microscope with scale 0,01 mm, 100x	£725.00
2064-CIL-LED-150	2064-CIL-150 Measuring microscope with scale 0,005 mm, 150x	£790.00
2064-CIL-LED-200	2064-CIL-200 Measuring microscope with scale 0,002 mm, 200x	£845.00
2064-CIL-LED-300	2064-CIL-300 Measuring microscope with scale 0,001 mm, 300x	£900.00

PEAK accessories for measuring microscope 2064-CIL



Interchangeable Lenses

2034, 2054, 2054-EIM and 2064-CIL-LED 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	£64.00
OJ-040	4X objective for magnification 40x	£64.00
OJ-060	6x objective for magnification 60x	£82.00
OJ-100	10-x objective for magnification 100x	£82.00
OJ-150	15x objective for magnification 150x	£136.00
OJ-200	20x objective for magnification 200x	£218.00
OJ-300	30x objective for magnification 300x	£305.00



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.

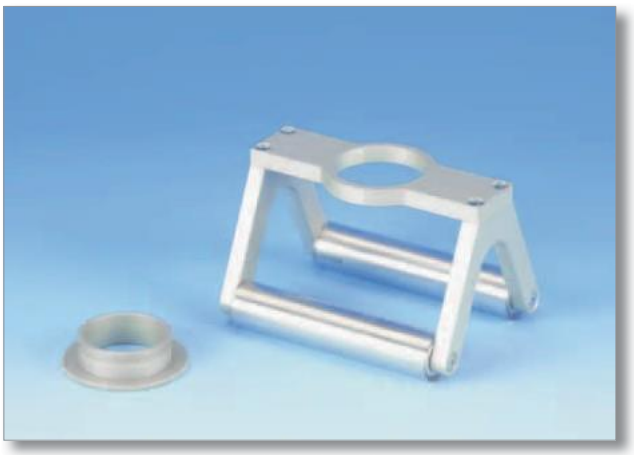
Order no.	Description	Price excl. VAT.
OKU-020	Eyepiece with scale 0,1 mm	£91.00
OKU-040	Eyepiece with scale 0,05 mm	£91.00
OKU-060	Eyepiece with scale 0,02 mm	£91.00
OKU-100	Eyepiece with scale 0,01 mm	£91.00
OKU-150	Eyepiece with scale 0,005 mm	£91.00
OKU-200	Eyepiece with scale 0,002 mm	£91.00
OKU-300	Eyepiece with scale 0,001 mm	£91.00



Interchangeable Eyepiece with inch 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-I	Eyepiece with scale 0.005”	£91.00
OKU-040-I	Eyepiece with scale 0.002”	£91.00
OKU-060-I	Eyepiece with scale 0.001”	£91.00
OKU-100-I	Eyepiece with scale 0.0005”	£91.00
OKU-150-I	Eyepiece with scale 0.0002”	£91.00
OKU-200-I	Eyepiece with scale 0.0001”	£91.00



Tripod MST

Special MST tripod for 2034-CIL, 2034-EIM-CIL and 2064-CIL-LED 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. The MST is also available as a special mode with rolling support rollers.

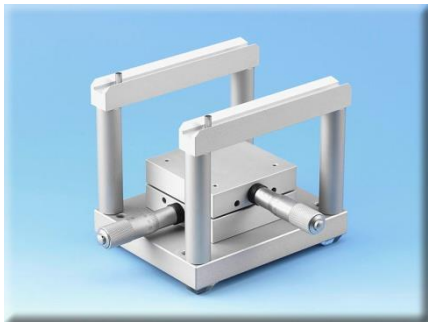
Order no.	Description	Price excl. VAT.
MST	MST Tripod for microscopes	£355.00
MST-R	MST Tripod with rotating support rollers	£625.00



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	£625.00



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 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	Price excl. VAT.
ST-CIL	Tripod with X-Y Table	£810.00
ST-CIL-RT-85	Tripod with X-Y and rotating table	£1,170.00



USB Camera

An eight megapixel, miniature USB camera with integrated lens and autofocus feature can be attached simply to the eyepiece with the aid of an adapter. This allows images to be saved quickly on a laptop or PC. The quality of the images obtained with this high end industrial camera are impressive.

Order no.	Description	Price excl. VAT.
1008-XS-ADP	USB 2.0 Camera with special adaptor	£680.00