L E E D S

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A Full Spectrum of Custom Products

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Inverted

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BX & BH2 Accessories

Extension Handle for Swing-Out Condenser

The **LBX-001** shown mounted on **BX45** condenser.

The **LBX-001** simple extension handle makes it easier to reach and operate the swing-out condenser knob located underneath the stage.

The **LBX-001** extension handle fits the swing-out type condenser on the **BX45** stand.

Order Product Number

LBX-001   Condenser flip-top lever extension for the **BX45**

The **LBX-001** extension handle

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B-1

Knob Extension Kits for BX Stage

The **LBX-072** and **LBX-075** knob kit extends the length of the low coaxial control knobs on BX stage by one inch. It also provides larger diameter control knobs for better ergonomic situations.

The **LBX-072** kit includes two knobs that snap onto the existing knobs of a **BX** stage and an extension knob for the x-axis tension control on a rack stage.

The **LBX-075** kit also includes two knobs that snap onto the existing knobs of a **BX/BX2** rackless stage.

The **LBX-072** shown mounted on a **BX** stage

Order Product Number

LBX-072   Knob extension kit for **BX** Rack Drive stage

LBX-075   Knob extension kit for **BX/BX2** Rackless stage

LBX-072

The **LBX-075** shown mounted on a rackless stage

LBX-075

LBX-075 Stage with Rackless drive	LBX-072 Stages with Rack and Pinion drives
U-SVRB-4	U-SVRS
U-SVLB-4	U-SVLS
U-SVRO	U-SVRDT
U-SVLO	U-SVLDT
	U-SVRSB
	U-SVLSB
	U-SVRDTB
	U-SVLDTB

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Gout / Pseudo Gout and Simple Polarizing Accessories
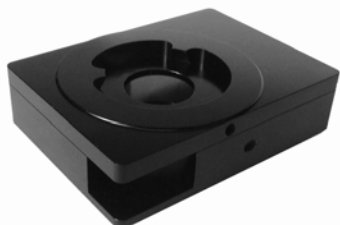
LBX-100

LBX-110

LBX-219 and LBX-220

Leeds offers polarizing accessories design for the Olympus **B-MAX** series of microscopes. Most are used with the **BX 40**, which does not have an integral slider slot in the nosepiece like the **BX 50**.

The **LBX-100** housing holds an analyzer/tintplate or an analyzer, and installs between the observation tube and the **BX 40** stand.

The **LBX-110** analyzer/tintplate (also known as *full wave plate*) is for gout/pseudo gout analysis, or can be used for simple polarization. It offers 90° rotation with a lever and also fits in the slider slot of Olympus model **U-D6RE** and **U-D7RE** nosepieces.

The **LBX-219** 360° rotatable analyzer slider. Fits into **LBX-100** or the slider slot of Olympus model **U-D6RE** and **U-D7RE** nosepieces.

The **LBX-220** 360° rotatable ¼ wave plate slider which fits into **LBX-100** on the slider slot of Olympus model **U-DRE** and **U-D7RE** nosepieces.

Model		Source	Simple Pol BX40	BX50/CX40	Rotatable Pol BX40	BX50/CX40	Gout/Pseudo Gout BX40	BX50/CX40
LBX-100	Slider Housing	Leeds	X		X		X	
LBX-110	Tintplate Slider	Leeds					X	X
LBX-219	Rotatable Analyzer	Leeds			X	X		
AQ0634	Blank Slider	Olympus	X	X				
U-P115	Analyzer	Olympus	X	X				
U-P110	Polarizer	Olympus	X	X	X	X	X	X

Dual-View Support Bracket

LBX-151

LBX-B-0151

The **LBX-151** bracket when combined with the Olympus **B-0151** dual-view telescoping support base, allows for support of **Olympus U-DO** dual observation attachment when it is used in a side arm position (instead of front to back).

LBX-B-0151 Telescoping support base provides for a taller support with a height range of 11 5/8" to 20".

Order Product Number

LBX-151	Bracket
LBX-B-0151	Telescoping support base

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B-4

Low Profile Mount for Tilting Binocular Head

LBX-300

The **LBX-300** low profile mount enables full field viewing when stacked-up accessories are used on the **B-Max** series of Olympus microscopes. It recovers 20mm of the maximum 109mm allowable stack height. This allows for greater flexibility when adding a dualview accessory, polarizing housing or other stack-up accessories - all without loss of viewing area. The low profile mount is ergonomically designed by keeping the microscope height minimal.

The **LBX-300** mount easily attaches to the binocular. This head replaces the mount housing on the Olympus **U-TBI** inclinable binoc head. *(On more recent tilt head models, the cylindrical glass must be removed.)*

The Leeds customization differs for the Olympus **3-U136** tilt head in the following ways:

- Head I.P.D. folds down rather than up
- Diopter remains on left side
- Tilt height range is 25mm lower
- The **3-U136** recovers 17mm more stack height than the **LBX-300** combination

The LBX-300 mounted on a **U-TBI** head

Order Product Number

LBX-300   Low profile mount

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B-5

Height Adjusting Adapter

LBX-U-EPA

LBX-353
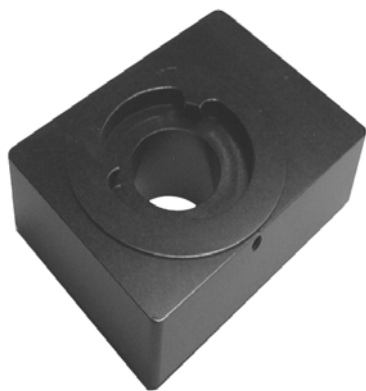
The **LBX-U-EPA** adapter is used when the operator needs the height of the eyepieces raised to a comfortable, relaxed sitting position. The adapter mounts between the microscope stand and observation head and raises height by 30mm with a 1x magnification factor.

If needed, two or three adapters can be stacked to create a ergonomical sitting position. With the **LBX-353** adapter a Olympus **U-DO** can be stacked on top of a **U-MDO**.

The **LBX-301** looks like the **LBX-353,** but with this adapter the Olympus **B-Max** components can be stacked on top of a **BH2** or **CH30** stand.

Order Product Number

LBX-U-EPA	**BX/BX2** Height adjusting adapter
LBX-353	Spacer for **U-DO** to **U-MDO**
LBX-301	Adapter for **BX** to **BH2/CH30** stand

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B-6

BX40 Nosepiece Adapter for the BX50 Stand
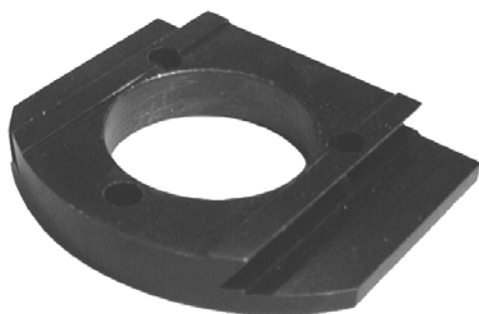
The **LBX-5RE** adapter allows the 5 place nosepiece from a **BX40** stand to be used on a dovetail style mount on the **BX50** stand.

When cost is an issue, the **LBX-5RE** adapter makes it possible to use a less expensive nosepiece.

LBX-5RE

Order Product Number

LBX-5RE   Adapter to mount **BX40** nosepiece to the **BX50** stand

Shown mounted on a **BX 40** nosepiece

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B-7

Nosepiece Adapter

The Leeds nosepiece adapter allows for the use of a six-place or seven-place nosepiece on a **BX40** or **BX45** microscope.

Combining the **LBX-D6RE** nosepiece adapter with the Olympus **U-R156 (U-D6RE)** six-place nosepiece, or the **U-R177 (U-D7RE)** seven-place nosepiece, creates a replacement for the five-place nosepiece - which is the standard nosepiece for the **BX40** and **BX45**. **BX40** frames need to be sent to Leeds Minneapolis office for the U-R177 Nosepiece.

The **LBX-D6RE** adapter replaces the dovetail mount of the **U-R156** and **U-R177** nosepieces. The adapter also provides an integrated slot for slider accessories - which eliminates the need for a slider housing on the **BX40**. The **LBX-D6RE** adapter also adds a second slot for slider accessories on the **BX45** stand.

The **LBX-6RE** and the **U-R106** should be used on the Olympus BX45 stand when only one slider is needed.

LBX-D6RE

Shown mounted in **U-R156** nosepiece

Order Product Number

LBX-D6RE — Adapter to mount **U-R156** & **U-R177** nosepieces to **BX40** or **BX45**

LBX-6RE — Adapter to mount **U-R106,** one slider, to the **BX45**

Dual Lamphouse Adapter

LBX-DLH

The Dual lamphouse adapter allows for the usage of two light sources on one microscope system.

For use with:　　　Reflected light illuminators. **BX/BX2** and **IX/IX2** stands.

It is easy to switch from one light source to the other with the turn of a knob. The indicator arrows on the knob shows which light source is selected.

Order Product Number:

LBX-DLH　Dual lamphouse adapter

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B-9

Fiber Optic Lamphouse Adapter

LBX-FOMET

The **LBX-FOMET** allows for the use of fiber optic type lighting with reflected light illuminators on the **BX/BX2** and **IX/IX2** stands.

LPI-U-UCLH
collector lens
(not included)

Order Product Number:

LBX-FOMET Fiber optic lamphouse adapter

*(The adapter is designed for a fiber optic bundle with a ferrule diameter of .393" x 1 ¼" length. The adapter requires usage of the **LPI-U-UCLH** collector lens assembly).*

LPI-U-UCLH   Collector lens assembly

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B-10

Hybrid Stand

Hybrid Stand

The Leeds **LBX-HYBRID** hybrid stand has 18" of travel in the Z-axis, which is all done on ball bearing sleeves with counter balanced springs. This design allows for ease in moving the microscope components out of the way for loading or unloading specimens, or just positioning for different height objects - such as whole animals or metallurgical samples. The **LBX-HYBRID** also has an adjustable stop for returning the microscope back to a predetermined position after loading a specimen.

The **LBX-HYBRID** stand is designed to be used with Olympus items: **BXFM-F** focus module, **BXFM-ILH** mount and any of the BX2 reflected light brightfield/darkfield and fluorescence illuminators.

The **LBX-HYBRID-RSM** mount is designed for using a reflected light stage on the **LBX-HYBRID** stand.

The **LBX-HYBRID-TSM** module is to be used with the **BX2** condensers and transmitted light stages on the **LBX-HYBRID** stand. This module is a Koehler transmitted light illumination system that requires the use of a **BX2** lamphouse and an external power supply. It can also be used with a fiber optic light system.

The L**BX-HYBRID-SZX** mount allows for the use of the **SZX** stereoscope and **SZX-FO/FOF** focus unit to be used with the **LBX-HYBRID** stand.

The combination of the hybrid stand and the many Olympus modular components make for a versatile microscope for viewing a variety of size of specimens.

The Leeds **LBX-HYBRID** hybrid stand

Order Product Number

LBX-HYBRID	Hybrid stand with 18" Z-axis range
LBX-HYBRID-RSM	Reflected light stage mount
LBX-HYBRID-TSM	Transmitted light stage module
LBX-HYBRID-SZX	Mount for SZX and SZX-FO/FOF focus unit

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B-11

Single Objective Nosepiece

LMN-NEO

LBX-RMS

LBX-NEO

The Leeds single objective nosepiece adapters provide an option when only a single objective is needed on a **BH2** or **BX/BX2** series microscope. They replace the multiple place nosepiece normally used.

They are available for RMS or NEO thread and installation is simple: the adapters are designed to slide into the nosepiece dovetail of the **BH2** or **BX/BX2** series microscope stand.

Order Product Number

LMN-RMS	RMS standard thread for BH2
LMN-NEO	NEO thread for BH2
LBX-RMS	RMS standard thread for BX/BX2
LBX-NEO	NEO Thread for BX/BX2

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B-12

Extension Handle for Swing-Out Condenser

LMA-001

The **LMA-001** simple extension handle makes it easier to reach and operate the swing-out condenser knob located underneath the stage.

The **LMA-001** extension handle fits the swing-out type condenser on the **BH2, BX/BX2** stand.

An LMA-001 mounted on a condenser on a BX41 stand

Order Product Number

LMA-001   Condenser extension handle

An LMA-001 mounted on condenser

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Parfocaling Shim Set

RMS Size Shims

The Leeds parfocal shim set can aid in bringing a set of objectives into parfocality on a microscope.

The brass or stainless steel shims fit over the RMS or NEO thread of the objective.

Each shim set contains ten each of seven different thicknesses of shims. Thicknesses are (in inches): .001, .002, .003, .004, .005, .007, .010.

Available for RMS or NEO thread size.

NEO Size Shims

Order Product Number

SHM-RMS   Set of 70 shims for RMS size thread
SHM-NEO   Set of 70 shims for NEO size thread

Separately for refill or extras:
SHM0000-S   Single shim for RMS size thread
SHM0000-L   Single shim for NEO size thread
(specify thickness desired with part number)

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B-14

2"x3" Translation Base
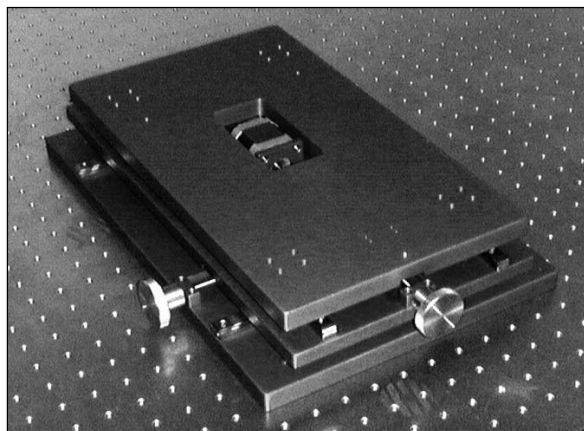
LPI-WI-XYM2 2x3, X-Y translation base

The **LPI-WI-XYM2** 2"x3", X-Y translation base allows the movement of the microscope frame without moving the specimen on electrodes. Useful for multiple patch clamping experiments.

Can be mounted to any breadboard with a 1/4-20 x 1" mounting hole pattern. **9 1/2"x 16" footprint.**

Order Product Number

LPI-WI-XYM2	2x3, X-Y translation base for BX51WIF.

LPI-WI-XYM2MOT	Motorized 2x2, X-Y translation base for BX51WIF.
560-HP1PC1	PCI controller card

Motorized model requires 560-HP1PC1 PCI controller card and computer.

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B-15

1" Extension Tube for the U-IT134

The **LPI-U-IT134** 1" extension tube, when added to the **U-IT134** side camera port, will allow for more clearance for a larger body camera.

LPI-U-IT134

LPI-U-IT134 Pictured on a **BX41**

Order Product Number

LPI-U-IT134   1" Extension tube for U-IT134
               side camera port

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B-16

5 Position Auxiliary Filter Wheel for the BX/BX2 and IX/IX2

The **LBX-102T** filter turret allows for up to 5 filters, 25mm or 32mm diameter, to be rotated into the optical raypath on any **BX/BX2** or **IX/IX2** microscope frame. It mounts under the observation tube and adds 18mm to the microscope stack height.

LBX-102T

LBX-102T

BX51WI

25mm adapter rings included

Order Product Number

LBX-102T   5 Position auxiliary filter wheel for the IX and BX.

---

by Leeds

1X C-Mount Adapters

The Leeds custom application 1X C-mount adapters are designed to be used instead of the Olympus **U-V311 (U-CMAD)** C-mount adapter. *The Leeds custom C-mount adapters require the use of the Olympus **U-V111 (U-TV1X-2)** adapter.*

U-V111
1x camera adapter with no lens - requires camera mount

U-V311
Olympus C-mount camera adapter

LPI-U-V311SL
The **LPI-U-V311SL** 1X C-mount adapter with slider allows for a filter to be inserted into the camera's raypath. *Adding a filter in this position when in the camera's raypath will affect parfocality.*

LPI-1XCS25
The **LPI-1XCS25** 1X C-mount adapter enables the use of a **CS25** series Uniblitz shutter in the camera's raypath.

LPI-CTR1X
The **LPI-CTR1X** centerable 1x C-mount adapter provides for a greater range of adjustment when centering a camera.

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Dual Photo Port Adapter

The **LPI-DTRU** Dual Photo Port Adapter allows for two cameras to be used without having to remove one and install another. This photo adapter has three light paths: 100% light for the **3-U137** binocular observation tube or 20% for the binocular observation tube, and 80% for the right photo port or 80% for the left photo port.

LPI-DTRU

Order Product Number	
LPI-DTRU	Dual photo port

LPI-DTRU pictured on a **BX41** with a **OLY-200** and a **DP-70.**

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B-19

by Leeds

240º Circular Pol Stage

The **LPI-SRGLC** low control mechanical stage is for the Olympus **SRG2** circular rotating centerable pol stage. The **LPI-SRGLC** has 240° of rotation and offers greater ergonomics when attached to the Olympus **SRG2** stage.

LPI-SRGLC on a **BX41**
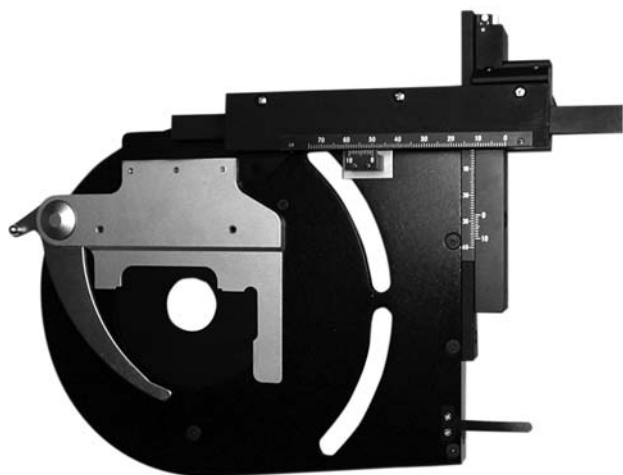
LPI-SRGLC

Order Product Number

LPI-SRGLC   240º low control mechanical circular pol stage

Thread Adapter

LPI-M34-M25

The **LPI-M34-M25** thread adapter allows for the **1-UB947** or **1-UB950** 2X and 4X macro objectives to fit the **U-R1002 WI-SNPXLU** single position nosepiece .

_____

Order Product Number
LPI-M34-M25   Thread Adapter - M34 to M25

_____

by Leeds

Glide Stage for the BX/BX2

The **LPI-BX2GLDE** Glide Stage allows for the positioning of the specimen by hand without the use of XY controls.

LPI-BX2GLDE Glide Stage

LPI-BX2GLDE Stage shown on a Olympus BX41

LPI-BX2GLDE-W
White Ceramic Coated Glide Stage

Order Product Number

LPI-BX2GLDE	Glide Stage for BX/BX2 Frames
LPI-BX2GLDE-W	Glide Stage for BX/BX2 Frames- White Ceramic Coated

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5-UL1035M Socket With Reflector

5-UL1035M on the Olympus BX41

5-UL1035M

The **5-UL1035M** allows for 10% more light to be reflected to the specimen.

Order Product Number

5-UL1035M   U-LS30-4 - With Socket Reflector

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B-23

LCT-UPOL-SL Condenser with Polarizer on Slider

The **LCT-UPOL-SL** allows for a quick removal of the polarizer unit from the transmitted light raypath, which increases light intensity by 2/3 and extending the life of the polarizer (the **6-U310** is included with the **LCT-UPOL-SL**).

Order Product Number	
LCT-UPOL-SL	**6-U310** Condeser and Slider Modification

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B-24

Thread Adapter - M34 to RMS

LPI-M34-RMS

The **LPI-M34-RMS** adapter allows for a second objective with RMS thread to be mounted in the M34 thread position of **Olympus U-R175 U-SLRE** slider nosepiece. The **LPI-M34-RMS** adapter adapter can be adjusted for parfocality.

Order Product Number	
LPI-M34-RMS	Thread Adapter - M34 to RMS

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B-25

BH2/BX Adapter for Flexible Fiber Lightguide Adapter

5-S119FO
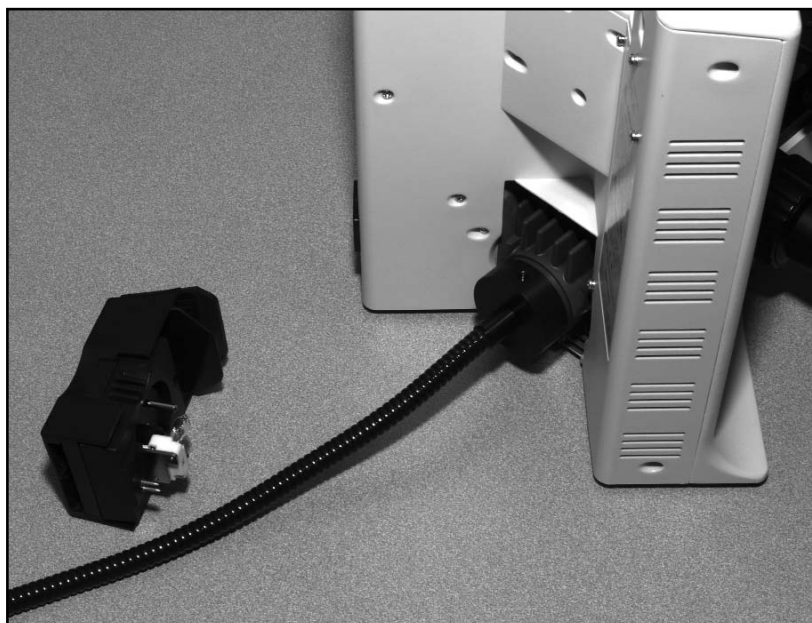
5-S119FO pictured on the Olympus BX41

The Leeds **5-S119FO** BH2/BX adapter for flexible fiber lightguides, allows for the Schott ACE series fiber light sources to be used in place of the Olympus Lamphouse on the **BX and BH** series of microscopes.

Order Product Number

5-S119FO   BH2/BX Adapter for Flexible Fiber
             Lightguide Adapter

by Leeds

BX White Ceramic Coated Fixed Stage

LPI-BX2FXW

Also available in black

LPI-BX2FXW pictured on the **Olympus BX41**

The Leeds **LPI-BX2FXW** Stage is mounted in a fixed position and coated with a durable white ceramic for easier viewing and movement of the slide on the stage by hand.

The round compact design of the stage has beveled edges for a more comfortable hand placement.

Order Product Number

LPI-BX2FXW   BX2 White Ceramic Coated Fixed Stage

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B-27

by Leeds

Extension Handle for Swing-Out Condenser for the BX45

The **LBX-001-2** simple extension handle makes it easier to reach and operate the swing-out condenser knob located underneath the stage.

The **LBX-001-2** extension handle fits the swing-out type condenser on the **BX45** stand.

The **LBX-001** extension handle

Order Product Number	
LBX-001-2	Condenser flip-top lever extension for the **BX45**

Dual View Support Stand Offset Mounting Bracket

LBX-152 with bolt

The Leeds **LPI-152** Dual View Support Stand Offset Mounting Bracket allows for four inches of 360° movement for better placement of the support stand base on the work surface.

LBX-152 pictured on the **Leeds LBX-B-0151**

Order Product Number

LBX-152   Dual View Support Stand Offset Mounting Bracket

Adjustable Support Bracket for the UDO
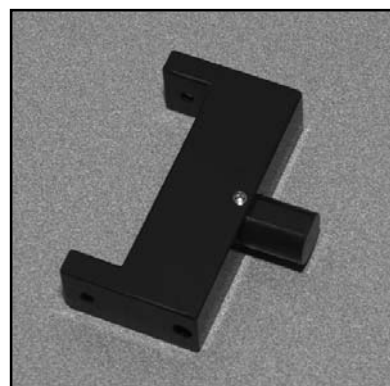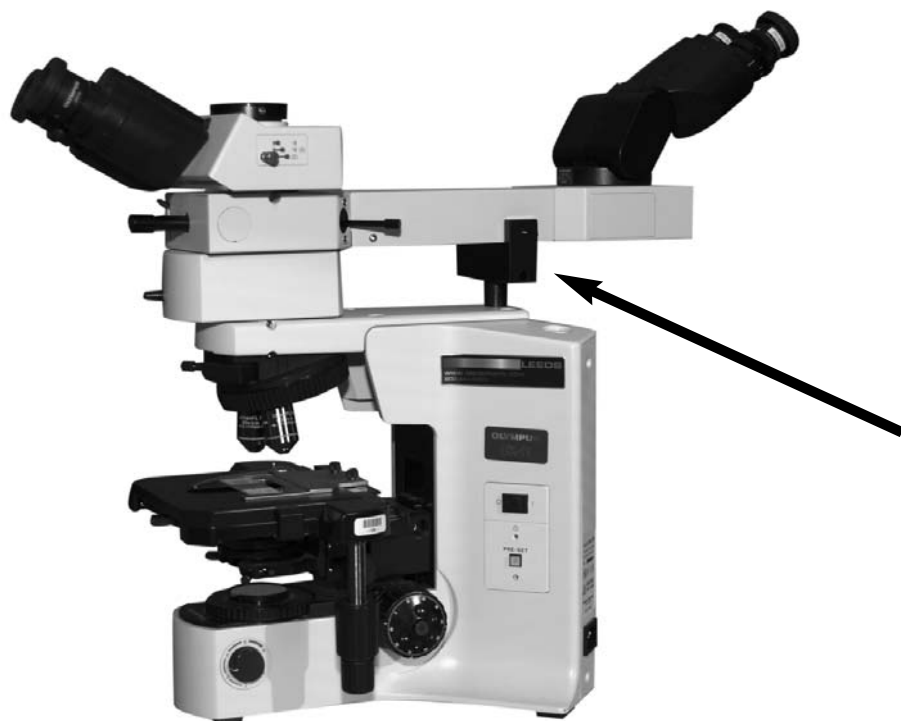
LBX-155

LBX-155 shown on the Olympus BX41 with U-IT110 magnification changer

The LBX-155 attaches to the Olympus UDO and allows for 32mm -50mm of adjustment support when a intermitted piece is placed before theUDO.
The LBX-155 protects the dovetail from damage and eliminates vibration for second the viewer.

Order Product Number

LBX-155   Adjustable Support Bracket for the UDO

B-30

Stereo

Leeds' Custom Boom Stand Components for Stereo Microscopes

LMA-036A

LMS-150
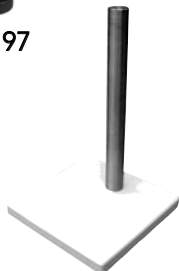
LMS-151

LMS-198

LMS-197
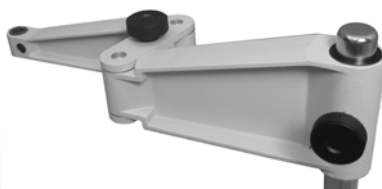
LMS-200

LMS-300

LMS-201

For a complete boom stand you will need:

1) Column assembly
2) Drop prevention collar
3) Arm assembly

LMA-036A	Drop prevention collar
LMS-150	Heavy boom base & 24" column (2" x 10" x 16", 105 lbs total weight)
LMS-151	Horizontal arm assembly
LMS-197	16" Vertical column with table clamp
LMS-197-24	24" Vertical column with table clamp
LMS-198	14" Vertical column with flange mount
LMS-198-24	24" Vertical column with flange mount
LMS-200	Boom base & 14" column *(same as used on the LMS-100 complete stand)*
LMS-200-24	Boom stand base & 24" column
LMS-201	Ball bearing boom arm provides for smooth easy 21" horizontal movement along arm. It is designed to hold a bonder style focus mount with a 5/8" diameter post mount.
LMS-300	Articulating boom arm has a double jointed fold away design to save space at the workstation and does not have a rear protrusion like the rigid boom arms have. It is made to fit any of the column assemblies on this page. When measured from the center of column to center of "field of view" of an Olympus SZ stereoscope, the horizontal arm has a 24 ½" reach. This arm is designed to hold a bonder style focus mount with a 5/8" diameter post mount.

Inclination Joint for Olympus Bonder Focus Mount

LMA-058

Unlike the stock **Olympus S-02662** and **S-0266** focus mounts, which drops into the post mount of the boom arm, the modified Leed's **LMA-058** inclination joint is mounted from the underside of the boom arm and is held securely in place with the provided drop prevention knob. The **LMA-058** inclination joint enables the stereoscope to be held securely at an angle which can be moved by the operator to various tilted positions and will stay in position until manually moved. Tension of tilt movement can be adjusted or locked with a hex wrench. This inclination joint replaces the standard knuckle joint of the **S-02662** and **S-0266**.

S-0266M shown

Order Product Number	
LMA-058	Inclination joint kit
S-0266M	Olympus bonder arm W/**LMA-058** installed
S-02662M	W/**LMA-058** Installed

by Leeds

STEREO

Adapter for S-0129A Transmitted Light Base

The **LMA-059** adapter allows a Nicholas style illuminator lamphouse to be used with the Olympus **S-0129A** transmitted light base. The adapter pops into the illuminator mounting hole in the back of the **S-0129A** base.

The **LMA-059M-5/8ID** adapter allows for a fiber optic bundle with a 5/8" diameter spot lens to be used with the Olympus **S-0129A** transmitted light base.

Order Product Number

LMA-059	Adapter for Nicholas to **S-0129A** base
LMA-059M-5/8ID	Adapter for F.O. light guide w/spot lens to **S-0129A** base

LMA-059 Shown

High Clearance Ringlight

LRL-410

LMA-060

The Leeds fiber optic ringlight maintains a full 4.2" working distance when mounted on an Olympus **SZ** and **SZ2** model stereoscopes. The narrow side profile doesn't interfere with hand or tool movement.

The Leeds ring light provides an even diffusion of light without hot spots or holes. The fiber optic bundle, which is available in various lengths, exits upward to stay out of the field of motion.

The ringlight mounts quickly with a screw-on coupler, and your choice of ferrule (please note that all three parts are necessary, and are ordered via separate part numbers).

A polarizer/analyzer is an available option.

Screw-on end for various ferrules

LMA-061

LMA-065

LMA-066

LMA-063

Order Product Number

LRL-410   High clearance ringlight - 4-ft length
LMA-060   SZ thread adapter

Choose a ferrule to fit your light source: (others are also available, call for info).

LMA-061   Ferrule for Dolan Jenner 180
LMA-063   Ferrule for Fostec
LMA-065   Ferrule for Olympus
LMA-066   Ferrule for Chiu
LPI-112   Polarizer/analyzer attachment

LPI-112

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S-4

Complete Boom Stereoscope Stand

LMS-100

The **LMS-100** is used where wide horizontal and/or tall vertical viewing is needed. The **LMS-100** is weighed and rigid with no need for a counter balance. The vertical column is 15 ¾" tall and is made of solid, nickel plated steel. When measured from the center of column to center of the field of view of an Olympus **SZ** stereoscope, the horizontal arm has a 22 ¾" reach. The arm has a flat surface to prevent accidental rotation of the stereoscope body, and a drop prevention collar secures the vertical height of the stereoscope above the work surface - eliminating any accidents if you swing the horizontal arm to another position. The arm is designed to hold a bonder style focus mount with a 5/8" diameter post mount. The base is 1" x 10" x 10" steel.

To configure a stand that will meet your specific needs, please check our line of modular components described on page S-1.

Transmitted Light Base for SZ

LMS-225R base shown mounted on **S-0128** stand with S-0115 reflected illuminator attached. The illuminator base comes with a stage glass and diaphragm.
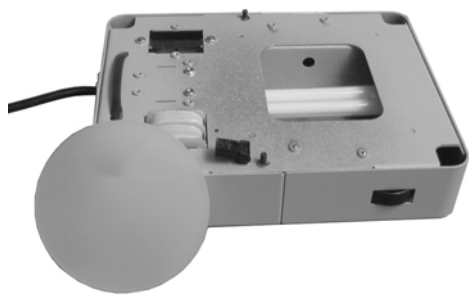
LMS-226 base contains a 7-watt fluorescent light source, as well as power for reflected light. The base comes with a diffusing stage plate.

The **LMS-225R** self-contained tuck-under base for the Olympus **S-0128** stereo stand clears up benchtop clutter and storage problems. It's low-profile adds only 1¾" to the height of the stand.

The base is a dual power supply for two light sources-6-volt/20watt internal transmitted, and 6-volt/15-watt reflected illumination (designed for Olympus **S-0115** incident light illuminator). Both sources can be used at the same time and have seperate level control switches.

The **LMS-225R** uses a halogen light light source that employs a rheostat for intensity control of both transmitted and reflected light. The mirror unit can be tilted to effect changes in lighting, which can fill the field with light as low as a .9x zoom setting.

The **LMS-226** unit fluorescent type light, mounted in the base for transmitted illumination, it minimizes shadows (note that there is no mirror in this model). The base mounts under the **S-0128** stand with two screws and can be easily installed with a 3mm ball hex wrench. A removable cover makes replacing the bulb easy.

Order Product Number

LMS-225R	Transmitted light base (6v 20w halogen)
LMS-226	7 watt fluorescent transmitted light base
S-0115	Olympus **LSGA**; low voltage incident light illuminator
S-0115B	Thumb screw to attach **LSGA** illuminator to **S-0128** stand

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Transmitted Light Base
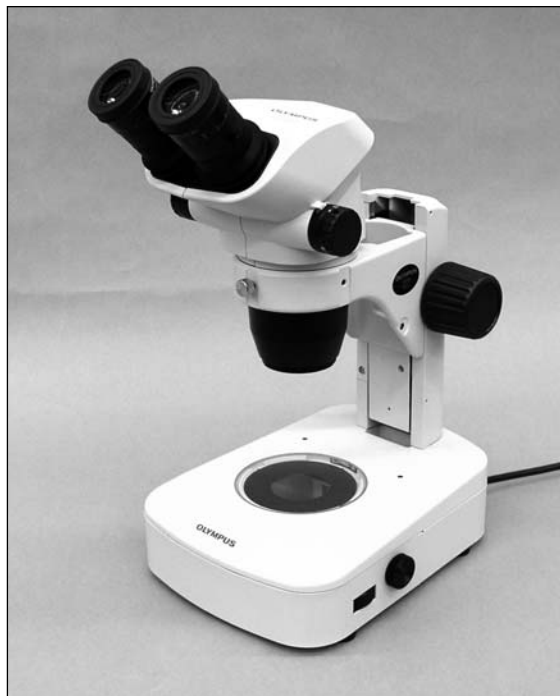
LMS-225W base shown mounted on S-01282

LMS-225W base comes with a clear glass stage plate and diaphragm

The **LMS-225W** self-contained tuck-under base for the Olympus **S-01282** stereo stand clears up benchtop clutter and storage problems. Its low-profile adds only 1 ¾" to the height of the stand.

The base has a dual power supply for two light sources- 6-volt/20 watt internal transmitted, and 6-volt/15-watt reflected illumination (designed for **Olympus S-0115** incident light illuminator). Both sources can be used at the same time and have their own light level control switches.

The **LMS-225W** uses halogen light and employs a rheostat for intensity control of both transmitted and reflected light. The mirror can be tilted to affect changes in lighting. It fills the field with light as low as .8x zoom setting.

The **LMS-226W** fluorescent type light mounts in the base for transmitted illumination, which minimizes shadows. (Note: there is no mirror in this model.)

The base attaches under the **S-01282** stand with three screws, and can be easily instal with a #1 crosspoint screwdriver. A removable cover makes replacing the bulb easy.

Order Product Number
|	
LMS-225W	Transmitted light base (6v 20w halogen).
LMS-226W	7 watt fluorescent transmitted light base.
S-0115	Olympus LSGA; low voltage incident light illuminator.
S-0115B	Thumb screw to attach LSGA illuminator to S-01282 stand.

Bright Field/Dark Field Transmitted Base with Sliding Mirror
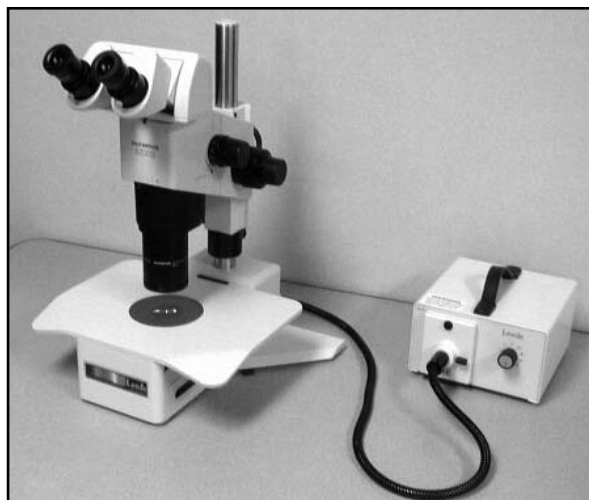
The Olympus SZX stereo microscope shown on the Leeds **LMS-230** bright field/dark field base with sliding mirror for oblique lighting. Powered by 150W Fiber optic light.
- **Selection done by slider**
- **Stage glass included**

LMS-230 bright field/dark field base with sliding mirror

Order Product Number

LMS-230	BF/DF/oblique mirror base
LMS-232	32mm post mount
S-0204	400mm pillar
LMS-SZX-R	Drop prevention collar
AO8031.40R	Fostec light guide
A20500	Fostec light source

Can also be used with SZ/SZ2 series stereo microscopes.

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S-8

Bright Field Transmitted Base with Sliding Mirror
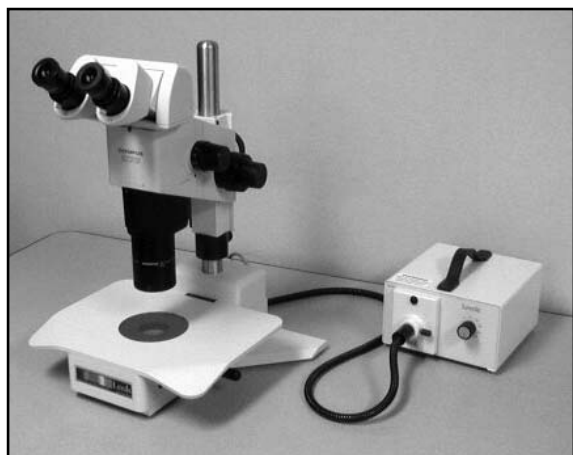
LMS-235 bright field base with sliding mirror.

The Olympus SZX stereo microscope is shown on the Leeds **LMS-235** bright field base with sliding mirror for oblique lighting. Powered by 150W fiber optic light.
- **Selection done by slider**
- **Stage glass included**

Order Product Number

LMS-235	BF/Oblique mirror base
LMS-232	32mm post mount
S-0204	400mm pillar
LMS-SZX-R	Drop prevention collar
AO8031.40	Fostec light guide
A20500	Fostec light source

Can also be used with SZ/SZ2 series stereo microscopes.

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S-9

12 Volt/50 Watt Transillumination Base - Bright Field/Dark Field
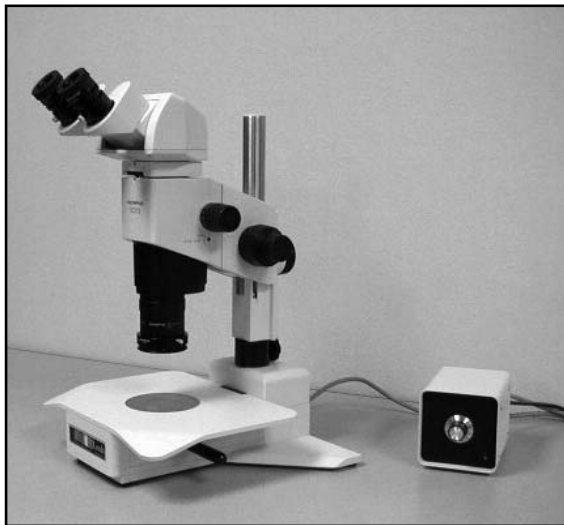
LMS-340 bright field/dark field base shown with SZX stereo body
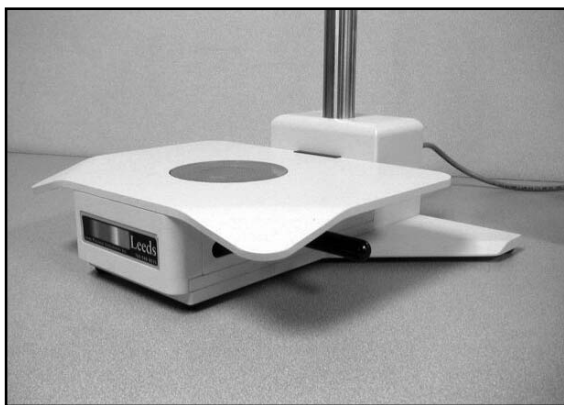
Performs like the former SZH-ILLD

The Olympus SZX stereo microscope shown on the Leeds **LMS-340** bright field/dark field, 12 volt/ 50 watt transillumination base. Bright field/dark field selection is done by a slide control. The glass stage plate is included.

LMS-340 bright field/dark field 12 volt/ 50 watt transillumination base

Order Product Number

LMS-340	BF/DF transillumination base
LMS-232	32mm post mount
S-0204	400mm pillar
LMS-SZX-R	Drop prevention collar
LMS-341	12V/50W variable power supply

Can also be used with SZ/SZ2 series stereo microscopes.

LMS-341
12V/50W variable power supply

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S-10

Three Place Nosepiece for SZX Stereos

The Leeds three-place nosepiece is designed for use on the **SZX9** and **SZX12** stereo microscope. This nosepiece design allows for the mounting of three different objectives to the **SZX** stereo body. The **LMS-SZX-3RE** and **LMS-SZX-3RE-M** are the smaller versions of this nosepiece design and do not allow for the use of a fiber optic ringlight. The **LMS-SZX-3RE-L** and **LMS-SZX-3RE-LM** are the larger versions of this nose-piece design and do allow for the use of a fiber optic ringlight. The **LMS-SZX-3RE-M** and **LMS-SZX-3RE-LM** models have detents for positioning the objective for macro use.

*(The **LMS-SZX-3RE-L** and **LMS-SZX-3RE-LM** are a larger version nosepieces that do limit the focus range of the **SZX-FO/SZX-FOF**).*

TheSZX 12 with **LMS-SZX-3RE-L** with ring light
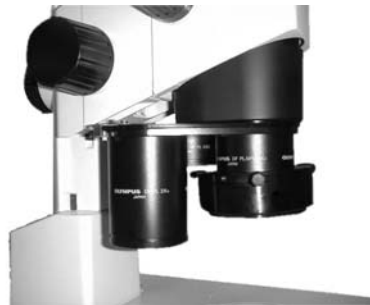
The **LMS-SZX-3RE-L** with ring light

LMS-SZX-3RE-L

Order Product Number

LMS-SZX-3RE	Three place nosepiece for SZX-small
LMS-SZX-3RE-M	Three place nosepiece for SZX-small with macro positions
LMS-SZX-3RE-L	Three place nosepiece for SZX-large
LMS-SZX-3RE-LM	Three place nosepiece for SZX-large with macro positions

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S-11

SZX Stereoscope Accessories

LMS-SZXBIFO
Adapter is for mounting a fiber optic 8520 bifurcated light guide to an **SZX** stand. It fits between the pillar mount and focusing assembly.

LMS-SZXBP
shown mounted on an **LMS-300** articulated arm with an **SZX** stereo body.

LMS-SZXBIFO
shown mounted on an **SZX** stand.

LMS-SZXBP
Adapter is for mounting an **SZX** stereo body to a boom stand with a 5/8" diameter bonder style mount. It fits in the pillar mount of the **SZX** focusing assembly.

Order Product Number

LMS-SZXBIFO	Adapter for 8520 to SZX stand
LMS-SZXBP	SZX Bonder Post Mount

Off Axis Light Attachment

LMS-SZX-OAX on a **SZX**
stereo microscope

The **LMS-SZX-OAX** off axis light attachment is designed for use with the **SZX** stereo microscope and provides near vertical illumination for examining PC boards, cracks, crevices and holes. It works throughout the full zoom range and can be used at a working distance of 70 to 200mm. The compact illuminator attaches to the objective body with two, 3mm drive set screws.

Order Product Number

LMS-SZX-OAX	Off axis light attachment for the **SZX** stereo microscope
AO8025.40	Fiber optic light guide
A20500	ACE 150 watt fiber optic light source

LMS-SZX-OAX

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S-13

Weighted Base for use with Existing Tabletop Work Surface

LPI-KSTAND shown with SZ stereo body

- Heavy steel base. Adds 4 ¾ " Height adjustment range to the range of bonder arm selected.
- Can be used with Olympus S-0266, S-02662 or any bonder style microscope arm.

Order Product Number

LPI-KSTAND   K Stand base for bonder arm

LPI-KSTAND K Stand base for bonder arm

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S-14

1X Stereo Video Coupler

LSZ-1XCMT2 1x
video coupler

The **LSZ-1XCMT2** 1x video coupler is designed for use on the Olympus SZ-6145TR stereo microscope. It is used when a 2/3″ or 1″ digital or analog video format is desired. Requires the .5x lens to be removed from the **SZ-6145TR** phototube.

Order Product Number

LSZ-1XCMT2	1X C-Mount for SZ61TR.
LSZ-1XSZ61	Removal of .5X lens (this must be done at Leeds Minneapolis office).

LSZ-1XCMT2 1x video coupler shown on a SZ-6145TR stereo microscope

An additional video coupler is available for the **SZ-6145TR.** The **LSZ-U-SPT** photo tube coupler allows for all Olympus components used on the **U-SPT** phototube to be used on the **SZ-6145TR.**

Additional Product Numbers

LSZ-U-SPT	PE Tube for SZ-6145TR.
LSZ-1XSZ61	Removal of .5X lens (this must be done at Leeds Minneapolis office).

LSZ-U-SPT PE Tube
for **SZ-6145TR**

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Boom Arm Stand with Crank Adjustment

The **LMS-202-HBP** Crank Boom Stand pivots 360° and allows for smooth adjustment of both axes. The height of the boom adjusts with the crank at the side of the bottom block of the stand. The horizontal boom is on ball bearings and allows for smooth operation. Levers lock vertical, pivot and slider positions securely.

The **LMS-202-HBP** is constructed of aluminum and stainless steel, and has an overall height of 24" - with a vertical motion of 19". The horizontal boom is 24" long, and useable travel length is 18". The base is constructed of 1"x10"x10" steel.

Order Product Number	
LMS-202-HBP	Crank Boom Stand with Heavy Base

by Leeds

Etherglow Light Diffuser

The **EGR-410M** allows for diffused light from the **LRL-410** ringlight to evenly Illuminate reflective samples. The etherglow light diffuser attachment greatly reduces glare.

EGR-410M Pictured

EGR-410M on a **SZ61**

Order Product Number

EGR-410M	Etherglow attachment to a **LRL-410** ringlight

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S-17

1X T-Mount coupler for the SZ-6145TR
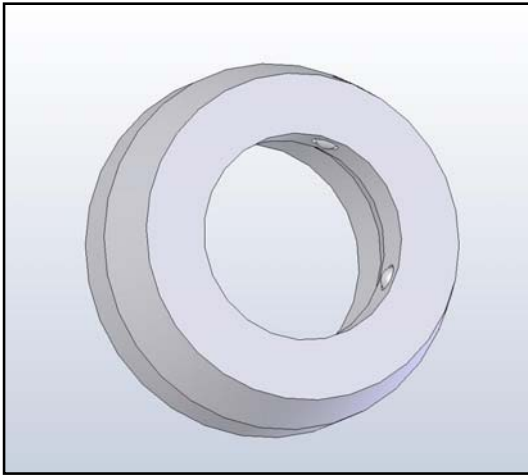
LSZ2-1XTMT Bottom View
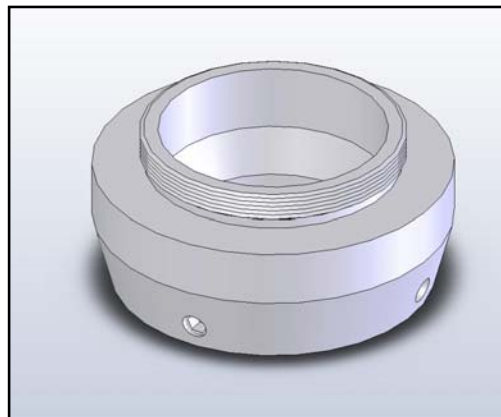
LSZ2-1XTMT Top View

The **LSZ2-1XTMT** t-mount coupler allows for digital SLR cameras to be used on the SZ-6145TR (requires specific t-mount for the camera being used). Also, removal of .5x lens from **SZ-6145TR** photo port is required.

Order Product Number
LSZ2-1XTMT   1x t-mount for **SZ-6145TR**
LSZ-1XSZ61   Removal of .5X lens in the
                    SZ6145TR

---

by Leeds

Face-to-Face Dual View for the SZX

SZX10 with the LPI-SZX-DO

LPI-SZX-DO
Bottom View

LPI-SZX-DO
Top View

The S-X130 Trinocular Observation Tube will not work on the LPI-SZX-DO

Order Product Number

LPI-SZX-DO Face-to-Face Dual View for the **SZX9**, **SZX10** and **SZX12** (will not work with the SZX16).

LMS-SZX2BP Bonder Post

The **LMS-SZX2BP** bonder post allows for the **SZX2 focusing block** to be mounted onto any 5/8 bonder style boomstand.
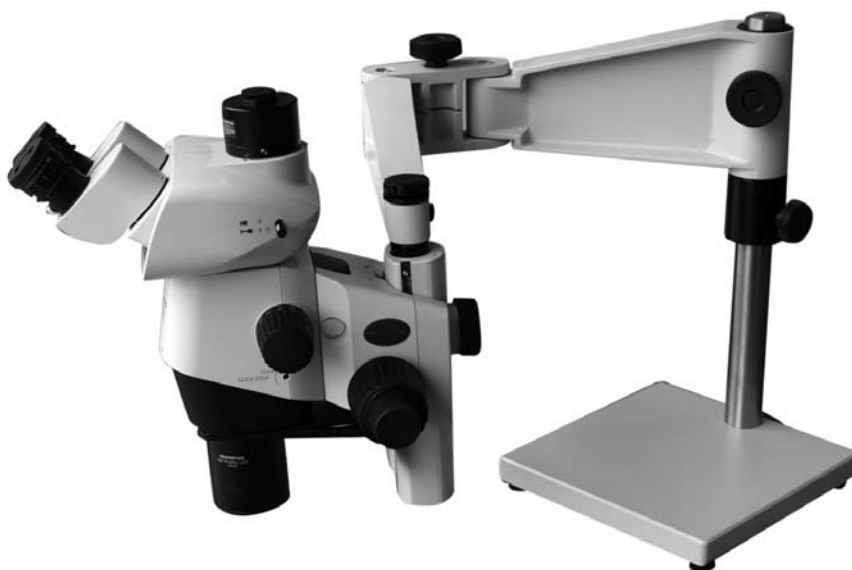
LMS-SZX2BP
Shown mounted on an **LMS-300** articulated arm with an Olympus **SZX16** stereo body.

LMS-SZX2BP

Order Product Number
LMS-SZX2BP   Bonder Post Mount

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Polarizer for SZX2-ILLT LED Base

The LPI-AN-LED Polarizer for **SZX2-ILLT LED Base** mounts in the four position turret and allows for transmitted polarizing light applications. Used with **SZX2-AN**.

LPI-AN-LED Polarizer

SZX16 with the **SZX2-ILLT LED** Base

Order Product Number
LPI-AN-LED   Polarizer for **SZX2-ILLT LED Base**

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S-21

Tiltable Stereo Base with Table Clamp

The **LMS-TILT** Base allows for improved ergonomics for extended inspection times. The **LMS-TILT** also allows for multiple users to make tilt angle and height adjustments for easier sample viewing. The tilt base clamps to a table for increased stability and will attach to all Olympus stereomicroscope stands.

LMS-TILT shown with a **Olympus SZ61TR** and **S-01282** stand

LMS-TILT front view

Order Product Number

LMS-TILT   Tilting and adjustable base

Z-Axis Crank Post for Boom Stands

The **LMS-Z-CRK14** Z-Axis crank post can be used as a replacement for the vertical post on the Olympus **STU2** boom stand, or on any of the Leeds boom stand bases. It has a Z-axis range of 14" with a travel speed of 1/8" per revolution of the crank knob. The post and the lead screw drive are stainless steel with two bronze drive nuts. The load capacity of the Z-axis crank mechanism post assembly is rated for 300 lbs.
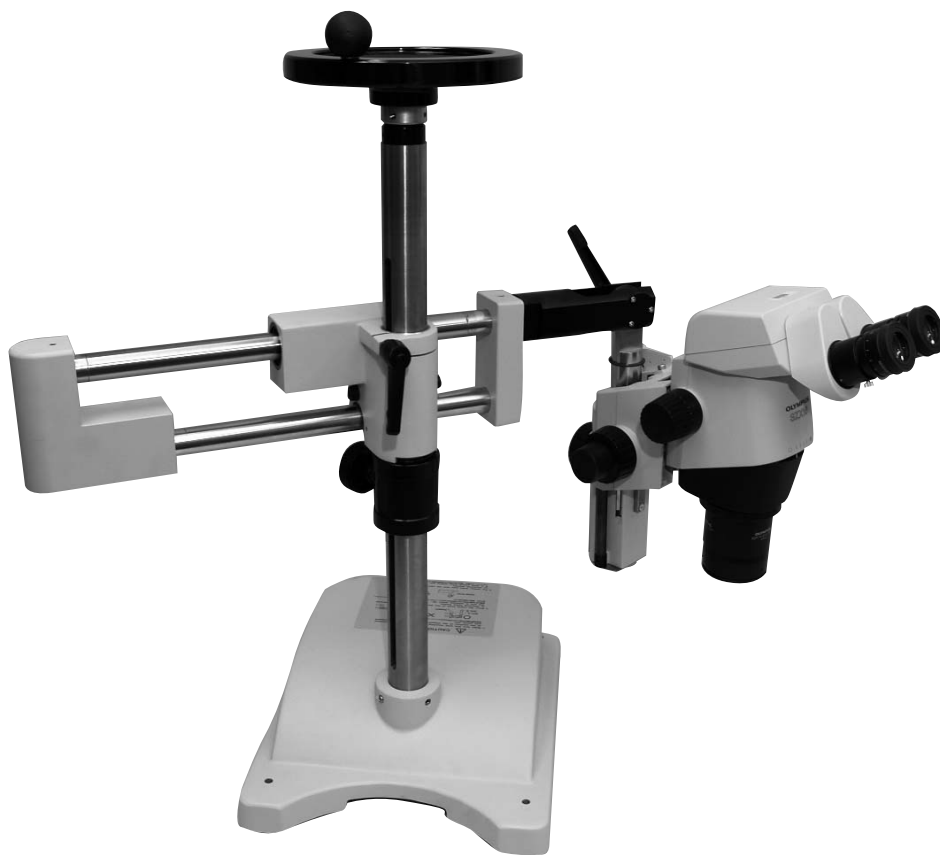
LMS-Z-CRK14 on the the Olympus STU2 Stand
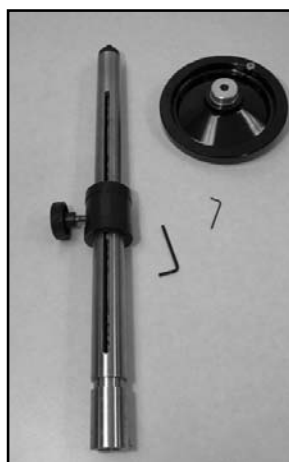
LMS-Z-CRK14 kit

Order Product Number

LMS-Z-CRK14   Z-Axis Crank Post for Olympus STU2 Boom Stand

LMS-Z-CRK14L   Z-Axis Crank Post for the Leeds Boom Stand Bases

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S-23

Universal Holders

LPI-UVHLR back view

LPI-UVCHLR

The **LPI-UVCHLR** Universal C-Shaped Holder has 90° of vertical to horizontal positioning range. The 360° rotatable chuck can hold a wire through the chuck that has a diameter of .010" to .170". The **LPI-UVCHLR** can also hold an item as large as 1" diameter in the chuck. The **LPI-UVCHLR** base has the ability to rotate 360° for optimal viewing.

The **LPI-UVHLR** Universal Holder has a 360° rotatable chuck that can hold a .010" to .170" diameter wire horizontally through the chuck. The **LPI-UVHLR** can also hold an item as large as 1" diameter in the chuck.

LPI-UVHLR

Order Product Number
LPI-UVCHLR Universal C-Shaped Holder
LPI-UVHLR   Universal Holder

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S-24

On Axis Lens Mount

LMS-SZX-MAC16 on an Olympus SZX16

The **LMS-SZX-MAC10** and **LMS-SZX-MAC16** lens mount allows the user to quickly switch the **SZX10** or **SZX16** from a stereomicroscope, to an on axis system that provides for a macro view usage by matching the center of the objective lens to the right side ray path of zoom lens.

The **LMS-SZX-MAC10** and **LMS-SZX-MAC16** also eliminates image shift for effective 3D rendering by imaging software.

LMS-SZX-MAC16

Order Product Number
LMS-SZX-MAC10   SZX10 Objective Mount with on Axis Shift
LMS-SZX-MAC16   SZX16 Objective Mount with on Axis Shift

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S-25

by Leeds

Adjustable Mount the for the AO8520 to LMS-300

The **LMS-300BIFO** adjustable mount allows the **AO8520** Dual Gooseneck to be attached to the **LMS-300** Articulating Arm, allowing for better positioning of the light when using the **LMS-300** arm.

The **LMS-300BIFO** can be mounted anywhere along the top, bottom or the end section of the **LMS-300** articulating arm.
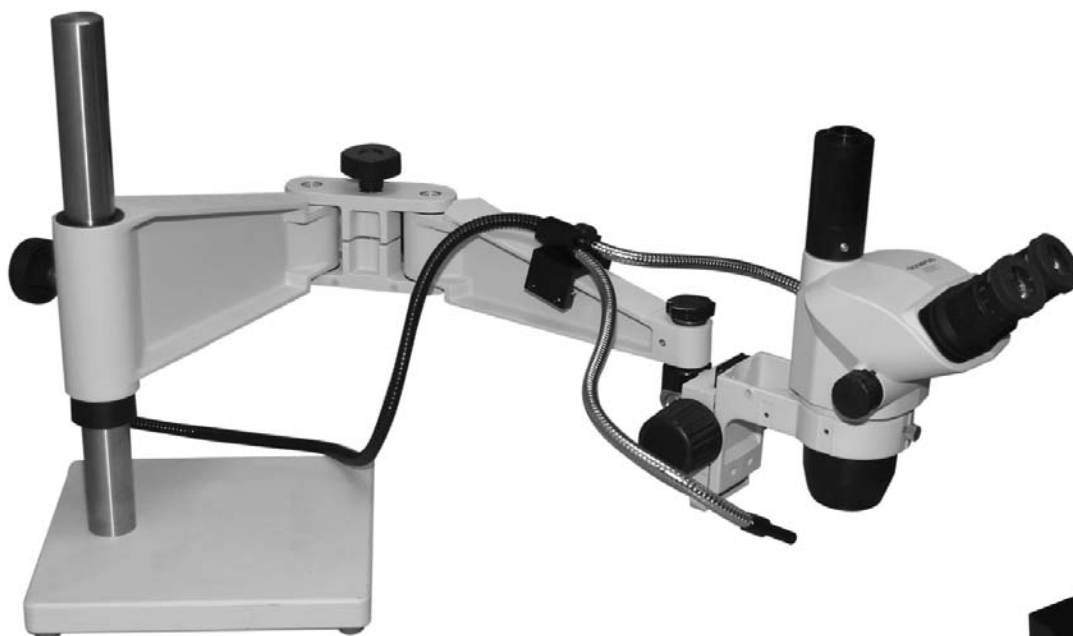
LMS-300BIFO on an **LMS300 Articulating Arm**

LMS-300BIFO Mount

Order Product Number
LMS-300BIFO   Mount for **A08520** to **LMS-300**

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S-26

by Leeds

Custom Breadboard Stands

Leeds' simple breadboard stands have a column with dovetails on all four sides, which allows for accessories like cameras and lighting to be added easily.

The Leeds Custom Products Department can design and built a wide range of custom breadboard stands to meet any of your projects needs.

Please contact Leeds for more information on our complete line of custom breadboard products.

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Custom Boomstand
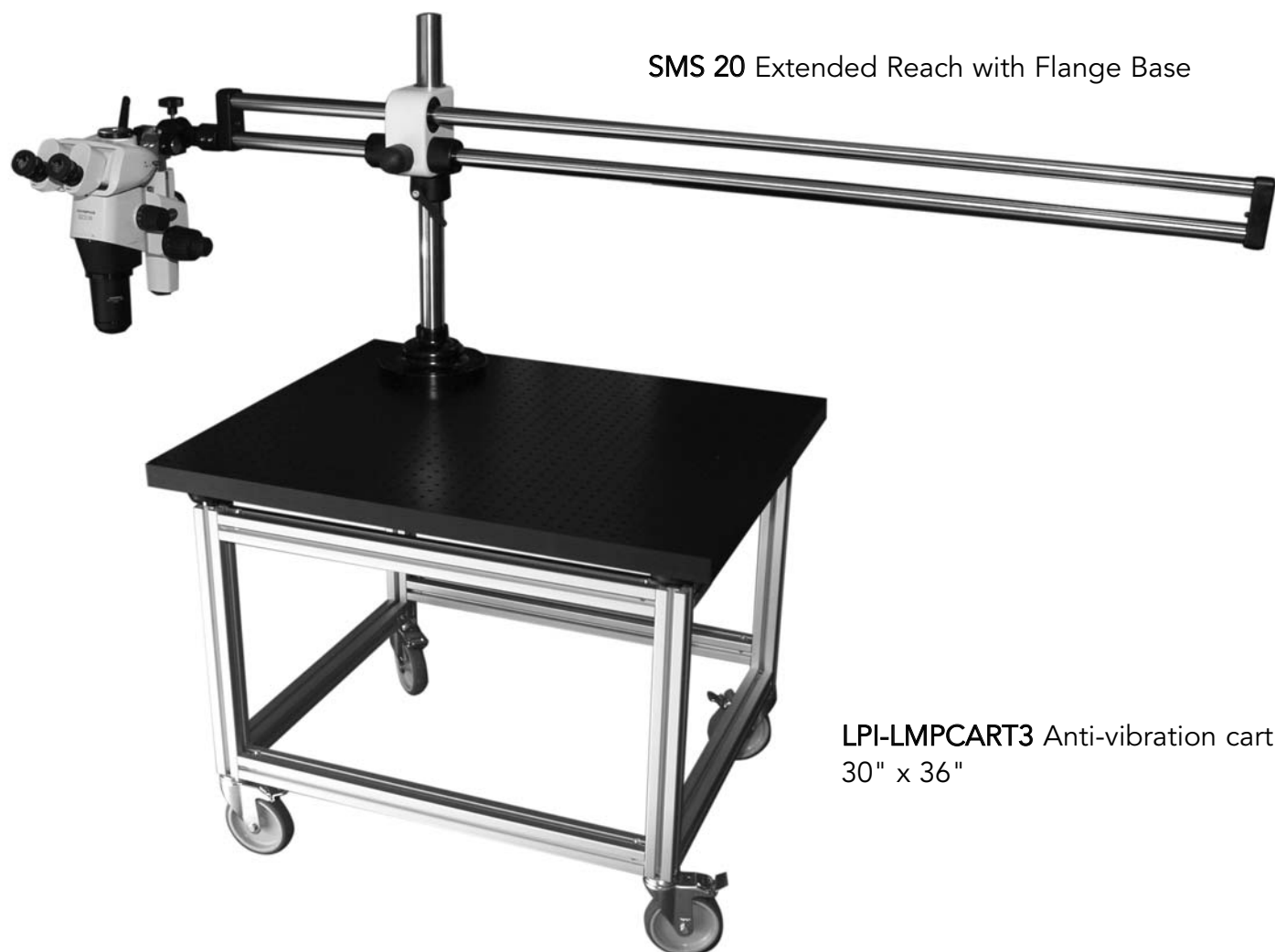
SMS 20 Extended Reach with Flange Base

LPI-LMPCART3 Anti-vibration cart
30" x 36"

The Leeds Custom Products Department can design and build a wide range of custom boom stand to meet any of your projects needs.

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S-28

Adjustable Height Stage

The **LMS-700** Adjustable Height Stage Mount has a 1 ½" height adjustment range and advances at ½" per turn of the adjusting ring. The **LMS-700** also includes a **BX/BX2** circular stage mount.

The **LMS-700** has a wide range of base mounts available, please contact Leeds' Custom Department for more information.

Order Product Number
LMS-700   Adjustable Height Stage Mount

Ferrule Adaptor for 10mm Light Guide

The **LPI-AO8060** allows the use of a 10mm light guide to be used on the SZX illuminator products.

LPI-AO8060
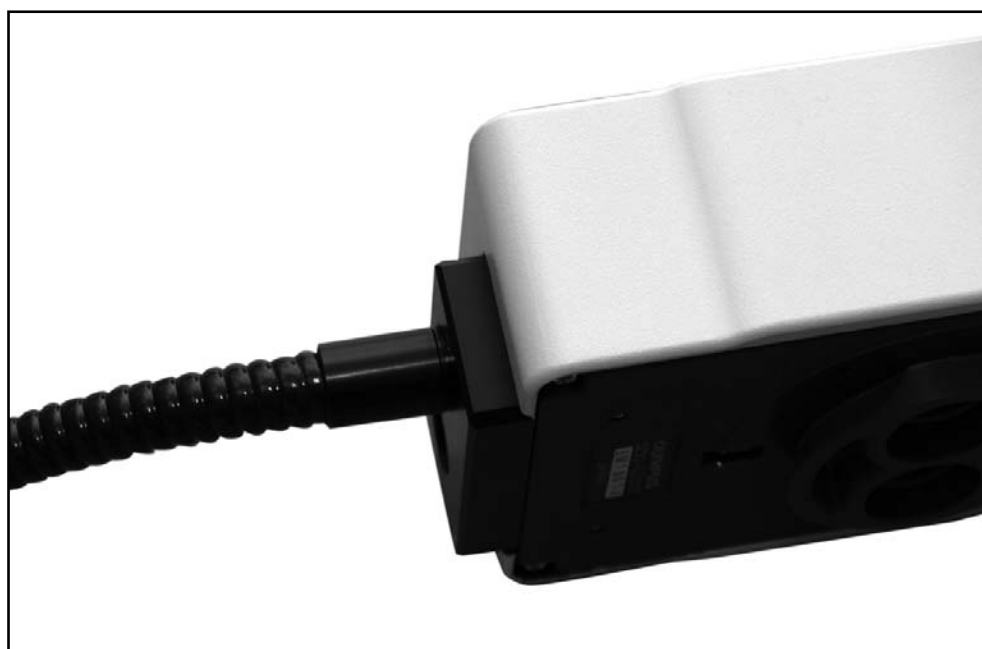
LPI-AO8060 shown with the **SZX2-ILLC16** and 10mm light guide

Order Product Number	
LPI-AO8060	Ferrule Adapter for 10mm light guide to Olympus SZX 12mm. Sold as a single item

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Stage Mount for the SZX2-ILLT

LPI-LED-SH Stage Mount

The **LPI-LED-SH** adaptor allows the **4-LB406A** stage to be mounted to the **SZXZ-ILLT**.

The **LPI-SICPG** metal plate with glass insert allows for X/Y platform and the transmitted light option to be used on the **SZX2-ILLT**. The **LPI-SICPG** also can be used on the **SIC4** stages.

LPI-SICPG Metal Plate with glass

Remove from **SZX2-ILT** and replace with **LPI-LED-SH**

Glass stage plate assemble removal is done with the Olympus Spanner wrench.

Order Product Number

LPI-LED-SH	Stage Mount for BH2-SH Stage to SZX2-ILLT
LPI-SICPG	Metal Plate with glass for SIC4 and BH2-SH Stages

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S-31
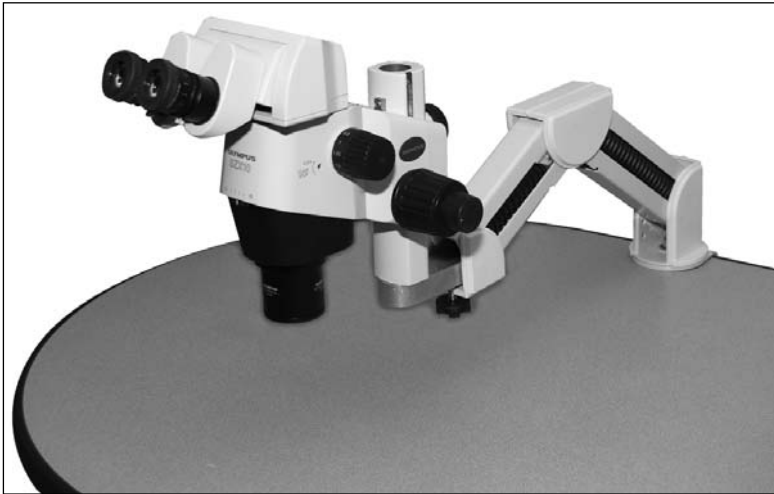
Retractable Arm

Olympus **SZX10** shown on the **LMS-350SZX**

The Leeds **LMS-350SZ** and **LMS-350SZX** retractable arms are designed to save work space by extending and retracting the microscope 14" from the back edge of the work surface, as well as housing the cords in the arm.

The **LMS-350SZ** and **LMS-350SZX** retractable arm can be mounted to any desktop surface using a C-clamp (2" max desk thickness, 2 ¾ " minimum overhang needed for clamp).

Made of 14 gauge metal, the **LMS-350SZ** and **LMS-350SZX** Retractable Arm can support up to 88 lbs.

The **LMS-350SZ** Retactable Arm holds any standard 5/8" Bonder Style Mount and Focus arm, and the **LMS-350SZX** Extension Arm holds the **Olympus SZX-FO** and **SZX-FOF** Focusing Unit.

Olympus **SZ51** and **S-02662** shown on the **LMS-350SZ**

Order Product Number
LMS-350SZ   Retractable Arm for the SZ/SZ2 bonder mount
LMS-350SZX   Retractable Arm for the SZX

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LED Transmitted Light Base
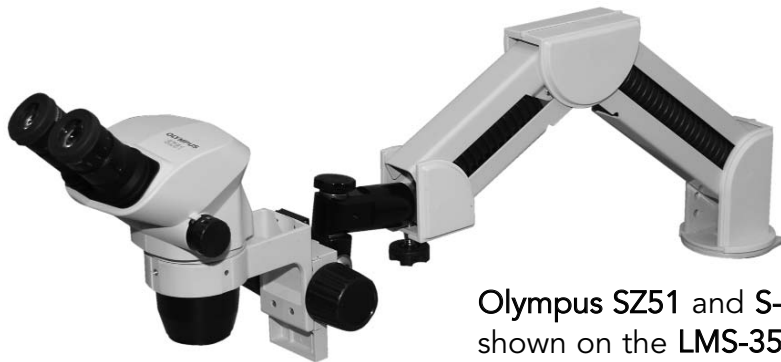

LMS-225LEDSL base shown mounted on **S-01282** and **LMS-LEDS**

The **LMS-225LEDSL** self-contained tuck-under base for the Olympus **S-01282** stereo stand that clears up benchtop clutter and storage problems.

The base has a dual power supply for two LED light sources; internal transmitted and reflected illumination (designed for Leeds' **LMS-LEDS** Spot illuminator). Both sources can be used at the same time and have their own light level control switches.

The **LMS-225LEDSL** uses a LED light with an adjustable intensity control for transmitted and reflected light, that fills the field with light at a zoom setting as low as .8x.

The internal mirror can be rotated 360 degrees and has a sliding feature for an oblique lighting effect. The rotatable mirror has a mirrored surface on one side, and a grey metallic surface on the other side - which allows for a better diffused lighting on samples.

The base attaches under the **S-01282** stand with three screws and can be easily installed with a #1 crosspoint screwdriver

The **LMS-LEDS** reflected LED spot lighting attaches to the **S-01282** stand and is powered with the **LMS-225LEDSL** base. This reflected LED spot lighting can also be a stand alone reflected light source if ordered as **LMS-LEDSK**, LED Spot Lighting Kit. This kit Includes a weighted base, flex arm and power supply with dimmer control.

LMS-LEDSK LED Spot Light Kit

Order Product Number

LMS-225LEDSL	LED Transmitted Light Base W/Sliding Mirror for SZ2-ST Stand
LMS-LEDS	LED Spot Light only for LMS-225LED
LMS-LEDSK	LED Spot Light Kit, Including Base, Arm & Power Control

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S-33

Off Axis Light Attachment - SZX16

The **LMS-SZX16-OAX** off axis light attachment is designed for use with the **SZX16** stereo microscope, with a 1x objective, and provides near vertical illumination for examining PC boards, cracks, crevices and holes. It works throughout the full zoom range and can be used at a working distance of 60mm. The compact illuminator attaches to the objective body with two, 3mm drive set screws.

LMS-SZX16-OAX on a **SZX16** stereo microscope

LMS-SZX16-OAX

Order Product Number

LMS-SZX16-OAX	Off axis light attachment for the **SZX16** stereo microscope
AO8025.40	Fiber optic light guide
A20500	ACE 150 watt fiber optic light source

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S-34

Inverted

Metallurgical Illuminator

LBX-IX2MIL

The Leeds **LBX-IX2MIL** metallurgical illuminator allows the Olympus model **IX2** inverted microscope stand to be used for metrology.

The **LBX-IX2MIL** illuminator has both a field and apperature diaphragm, a three position filter slider with daylight and green filters installed.

The Olympus **IX2** stand equipped with the **LBX-IX2MIL** illuminator converts the stand into an inverted metallurgical microscope utilizing the UIS optics with a 22mm field of view, an erect image and photo ports.

LBX-2352

IX51 with LBX-IX2MIL

Order Product Number

LBX-IX2MIL **IX2** Metallurgical illuminator
*(Requires use of Olympus **5-UL113** lamphouse with longer cord.)*

BF/DF usage add:
U-R255 nosepiece
(remove original nosepiece and diaphragm)
U-M601 Brightfield mirror cube
U-M603 Darkfield mirror cube
Simple Polarized light add:
U-M605 Nomarski mirror cube

Adjustable Polarized light add:

LBX-2352 360° rotatable analyzer slider with 32mm polarizer
D.I.C. usage add:
U-M605 Nomarski mirror cube
U-P200 Nomarski prism slider

3 Layer Cross Movement Stage for CKX31/41

LPI-CKX3PLT 2x2 Three plate stage shown on the **CKX41**

The **LPI-CKX3PLT** 2"x 2" three plate mechanical stage is designed for direct mounting of condenser lens pillar onto the stage frame on the Olympus **CKX41** inverted microscope.

Order Product Number

LPI-CKX3PLT   2x2 Three plate stage (Includes metal insert)

LPI-CKX3PLT 2x2 Three plate stage
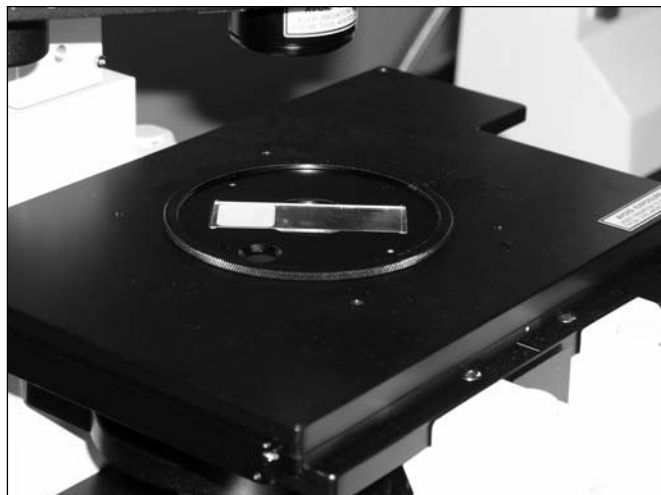
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I-2

Rotatable Insert Plate
IX/IX2, 3-plate design mechanical stage

LBX-IXROT-IX3/35 pictured

The **LBX-IXROT** series insert plates are designed for rotating the specimen on the **IX/IX2** series inverted microscope. They can be used with a 1" x 3" slide, 35mm Petri dish or a 50mm Petri dish. The knurled edges allow for easy rotating of the specimen while still on the stage. The **LBX-IXROT** series inserts replace the drop-in inserts of an **IX2-SFR** style three-plate design mechanical stage. Included in the Leeds design are mounting holes for using Petri dish holding clips or slide holding clips, and an oiling access hole for an oil immersion objective.

Order Product Number

LBX-IXROT-1X3	1 x 3 slide rotator for IX/IX2 3-plate design stage
LBX-IXROT-1X3/35	1 x 3 slide & 35mm Petri dish rotator for IX/IX2 3-plate design stage
LBX-IXROT-1X3/50	1 x 3 slide & 50mm Petri dish rotator for IX/IX2 3-plate design stage
AQ1203	Petri dish clip - one
AR1998	Slide clip - one

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I-3

Condenser Pillar Pivot Modification for the CKX31/41

CKX31 with the LPI-CKX-T90 modification.

LPI-CKX-T90 modification

The **LPI-CKX-T90** modification to the **CKX31/41** condenser pillar allows for a 90 degrees rotation to the left. This makes it easier to place larger items, such as roller bottles or flasks on the stage.

*The **LPI-CKX-T90** modification requires that the pillar from the **CKX31/41** be sent to Leeds for modification. For equipment that is currently in use in the field, Leeds has a limited number of exchange units available.*

Order Product Number

LPI-CKX-T90   CKX condenser pillar 90° pivot modification

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Filter Holders for IX2 Frame for IX2-AN Slot

LPI-IX2ANO-32 - 32mm Filter Slider

LPI-IX2-ANO - 25mm Filter Slider

Order Product Number
LPI-IX2ANO-32   Blank 32 mm Filter Slider for IX2-AN slot
LPI-IX2ANO   Blank 25mm Filter Slider for IX2-AN slot

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I-5

X and Y Stage Lock for the IX

The **LBX-IXSL** simultaneously locks both the X and Y position on the IX three plate series of stages.

LBX-IXSL Stage Lock Shown on a **Olympus IX81 FV1000**

Order Product Number

LBX-IXSL   X and Y Stage Lock for IX Stages

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MX

Tilting Plate for Manipulating Samples

The **LMS-MEMS** sample holder is designed to rotate 360º and also features a spring loaded non-metallic jaw to hold a sample. The **LMS-MEMS** allows for a cleaved wafer to be easily leveled for trench measurement by moving a knurled knob while viewing the sample.

The **LMS-MEMS** can also be used for other samples that are hard to place on a traditional stage for viewing at different angles.

Leeds offers a wide range of specimen holders for many different applications.

LMS-MEMS holding a cleaved wafer sample

Order Product Number

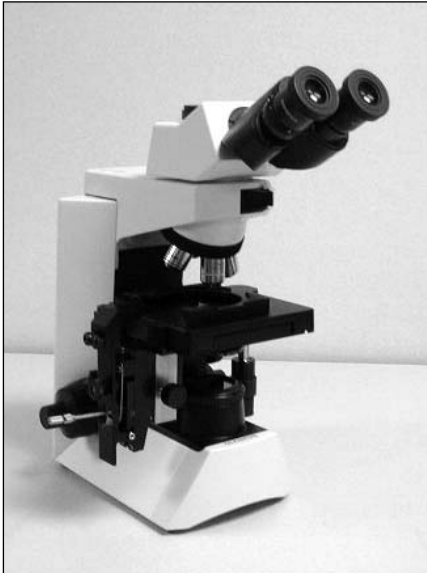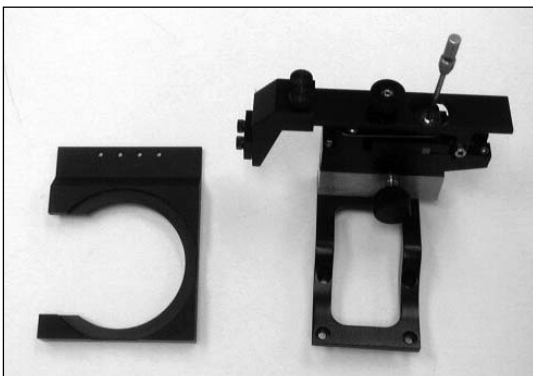| LMS-MEMS	Specimen tilting plate for the MX-SIC8

LMS-MEMS on a MX80

CX

CX31/41

Tetrad Kit and Modification for CX31/41 Microscope

Olympus Tetrad Microscope
For use in micromanipulation of spores for genetic analysis. This ergonomically designed joystick style micromanipulator enables the rapid relocation of spores on agar surfaces.

LPI-CXTET	Tetrad kit and modification to CX31 or CX41 microscope (Specify Right Hand or Left Hand mount)
LBX-TRDPLT	Tetrad 100mm Petri dish holder - Left Hand).
LBX-TRDPLT-R	Tetrad 100mm Petri dish holder - Right Hand).

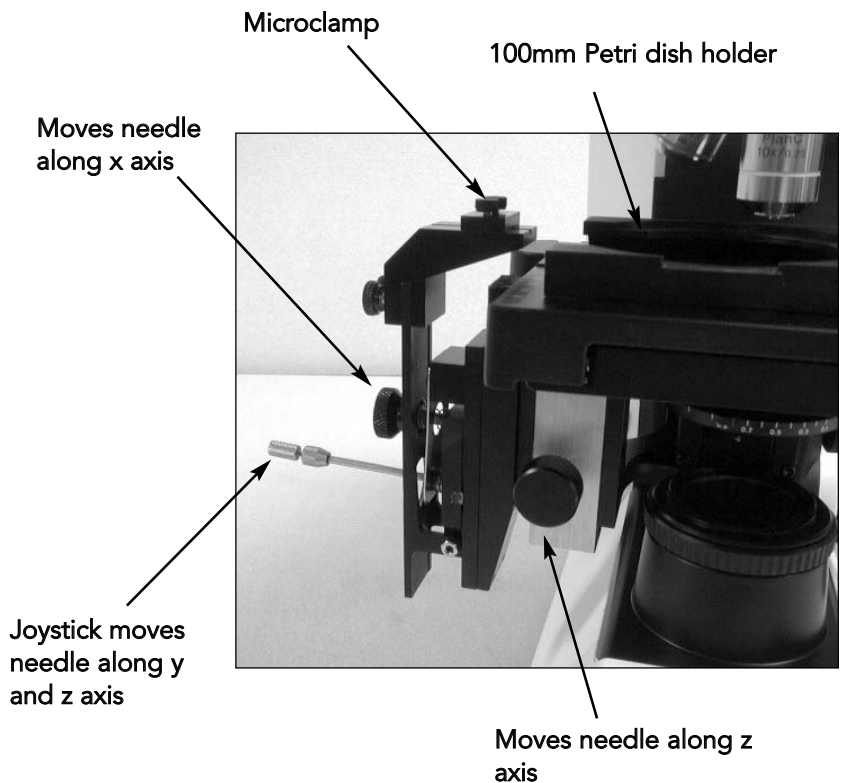**LPI-CXTET** Tetrad kit shown on an Olympus CX41 microscope.

Kit includes a 100mm Petri dish holder and micromanipulator assembly.

Microclamp

100mm Petri dish holder

Moves needle along x axis

Joystick moves needle along y and z axis

Moves needle along z axis

CX-1

Support Brace for mounting a U-DO3 onto the CX41 Frame
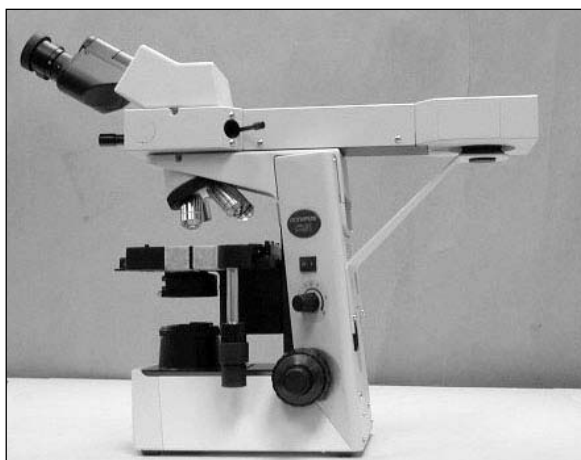
The **LPI-CXUDO** pictured on a **CX31** frame

Order Product Number

LPI-CXUDO   Support brace for **U-DO3** to **CX31/41** frame.

The **LPI-CXUDO** pictured from the back
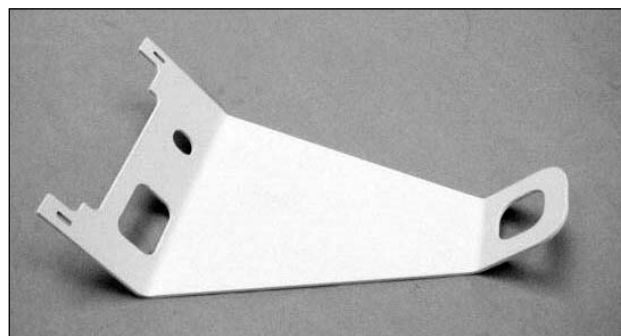
LPI-CXUDO

CX/BX Swivel Head Mount

The **LPI-CXS** swivel mount allows for easy rotation of the binocular of a BX or CX. This accommodates cabinet storage, allows for multiple viewers without damage to the dovetail mount and keeps the binocular from inadvertently falling off.

The **LPI-CXS** has 360° of rotation and greatly extends the life of the microscope.

LPI-CXS on a CX31

LPI-CXS

Order Product Number

LPI-CXS   BX/CX Swivel Mount

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CX-3

Rollscope

Rollscope Base Microscope

ROLLSCOPE1OT Pictured

The Leeds Rollscope can be used for jobs that a traditional microscope can't do. The portable design with roll feet is ideal for field operation, inspection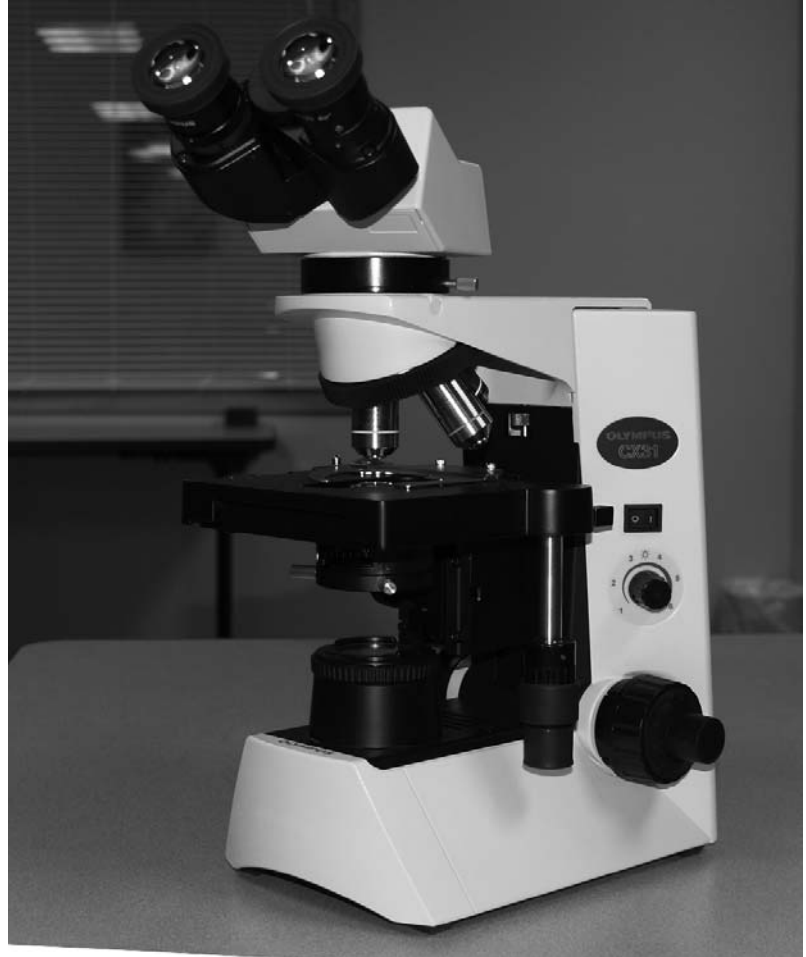 of printing rolls or viewing inaccessible and large objects that cannot be placed on the stage of a microscope. The Leeds Rollscope microscope can be configured with a focusing optical tube or focusing arm. The focusing optical tube will hold an eyepiece and an objective of a specified magnification, while the focusing arm - with the use of various adapters - will hold a machine vision type lens system.

The **ROLLSCOPE1OT** Rollscope microscope is configured with a monocular optical tube and has 1 ¼" of focus range and a leadscrew driven y-axis positioner with 1" travel. Included in the **ROLLSCOPE1OT** design is a focusing beam flashlight with mounting bracket.

The **ROLLSCOPE2OT** Rollscope microscope is configured with a monocular optical tube which has 1 ¼" of focus range and leadscrew driven positioners with 1" travel in both x-y axis. Included in the **ROLLSCOPE2OT** design is a focusing beam flashlight with mounting bracket.

The **ROLLSCOPE1SD** Rollscope microscope is configured with a focusing arm mounted on a post, which has 1 1/8" of focus range and can mounted higher on the post for taller objects. The leadscrew driven y-axis positioner has 1" travel. Included in the **ROLLSCOPE1SD** design is a focusing beam flashlight with mounting bracket.

Order Product Number

ROLLSCOPE1OT   1-axis rollscope base with focusing optical tube

ROLLSCOPE2OT   2-axis rollscope base with focusing optical tube

ROLLSCOPE1SD   1-axis rollscope base with focusing arm and post mount

ROLLSCOPE2SD   2-axis rollscope base with focusing arm and post mount

The **ROLLSCOPE2SD** Rollscope microscope is configured with a focusing arm mounted on a post, which has 1 1/8" of focus range and can be mounted higher on the post for taller objects. The lead screw driven positioners have 1" travel in both x-y axis. Included in the **ROLLSCOPE2SD** design is a focusing beam flashlight with mounting bracket.

ROLLSCOPE2SD Pictured with camera

MVX 10

MVX 1X C Mount Adapter with Filter Slider

MVX10 with **LPI-MVX-V311SL**

The **LPI-MVX-V311SL** 1X-C-mount adapter with slider allows for a filter to be inserted into the camera's raypath.
Adding a filter in this position when in the camera's raypath will effect parfocality.

LPI-MVX-V311SL Pictured

Order Product Number

LPI-MVX-V311SL   MVX 1X C mount adapter with filter slider

*The **LPI-MVX-V311SL** C-mount adapter requires the use of the Olympus **U-V111 (U-TV1X-2)** adapter.*

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by Leeds

MVX 10 Hybrid Stand

The Leeds **LBX-HYBRID** hybrid stand has 18"of travel in the Z-axis, which is all done on ball bearing sleeves with - counter balanced springs. This design allows for ease in moving the microscope components out of the way for loading or unloading specimens, or just positioning for different height objects - such as whole animals or metallurgical samples. The **LBX-HYBRID** also has an adjustable stop for returning the microscope back to a predetermined position after loading a specimen.

The **LBX-HYBRID** stand is designed to be used with Olympus items: **BXFM-F** focus module, **BXFM-ILH** mount and any of the BX2 reflected light brightfield/darkfield and fluorescence illuminators.

The **LBX-HYBRID-RSM** mount is designed for using a reflected light stage on the **LBX-HYBRID** stand.

The **LBX-HYBRID-TSM** module is to be used with the **BX2** condensers and transmitted light stages on the **LBX-HYBRID** stand. This module is a Koehler transmitted light illumination system that requires the use of a **BX2** lamphouse and an external power supply. It can also be used with a fiber optic light system.

The L**BX-HYBRID-SZX** mount allows for the use of the **SZX** stereoscope and **SZX-FO/FOF** focus unit to be used with the **LBX-HYBRID** stand.

The combination of the hybrid stand and the many Olympus modular components make for a versatile microscope for viewing a variety of size of specimens.

MVX 10 on a Leeds Hybrid stand

Order Product Number

LBX-HYBRID	Hybrid stand with 18" Z-axis range
LBX-HYBRID-RSM	Reflected light stage mount
LBX-HYBRID-TSM	Transmitted light stage module
LBX-HYBRID-SZX	Mount for SZX and SZX-FO/FOF focus unit

Dual Photo Port

The LPI-DPP allows for a quick change between two cameras with different mounts on the Olympus MVX10. Please contact the Leeds Custom Department for more information on other custom photo ports.

Order Product Number

LPI-DPP   Dual Photo Port Module

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3 Place Nosepiece for the MVX

LMS-MVX-3RE Three-place nosepiece

LMS-MVX-3RE on the Leeds Z Plus Stand

The Leeds **LMS-MVX-3RE** three-place nosepiece is designed for use on the **MVX10** macroscope. This nosepiece design allows for the mounting of three different objectives to the **MVX10**. *The LMS-MVX-3RE can not be used with a ringlight.*

Order Product Number

LMS-MVX-3RE   Three place nosepiece for MVX10

FluoView

Filter Holder for the FluoView 300

LFV-EMBFS

The **LFV-EMBFS** empty filter slider will accept an 18mm emission filter for the **FluoView 300**.

Order Product Number
LFV-EMBFS   18mm Filter holder for the FluoView 300 (18 mm Blank slider for FluoView 300)

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FV-1

Z Plus

Z Plus Stand - RFA

LPI-Z+RFARM

LPI-Z+RFA16

The **LPI-Z+RFA16** is a modification of the Olympus **SZX16** fluorescence illuminator with the focus components removed. The **LPI-Z+RFA16** is designed for the Z Plus stand and provides for greater stability and steadiness of the optical image. The **LPI-Z+RFA16** provides an even and seamless fluorescence illumination and has a five position turret for various filter units. The **LPI-Z+RFA16** requires the **LPI-Z+RFARM.**

Leeds Z Plus Stand shown with **LPI-Z+RFA16** Fluorescence Illuminator and **LPI-Z+KOE** Köhler illumination module.

Order Product Number
LPI-Z+RFA16   Fluorescence Illuminator
LPI-Z+RFARM   RFA16 Optical Arm

Z Plus Stand - BX2 Components

LPI-Z+BXARM

LPI-Z+KOE

The Leeds Z Plus Stand is shown with BX2 Optical Arm and Köhler illumination module.

Order Product Number
LPI-Z+BXARM   BX2 Optical Arm
LPI-Z+KOE   Köhler Illimination Module

The **LPI-Z+KOE** Köhler Illuminator Module for the Z Plus Stand is designed for a fixed stage height. The **LPI-Z+KOE** has a field diaphragm and filter cassette that can hold up to four filters. The **LPI-Z+KOE** will accept any Olympus BX/BX2 choice of stage, condenser and lamp housing. The **LPI-Z+KOE** can also accept the **LPI-Z+FOK** fiber optic illumination kit.

The **LPI-Z+BXARM** Optical Arm, when added to the Z Plus Stand, allows for use of the Olympus BX2 reflected light microscope components.

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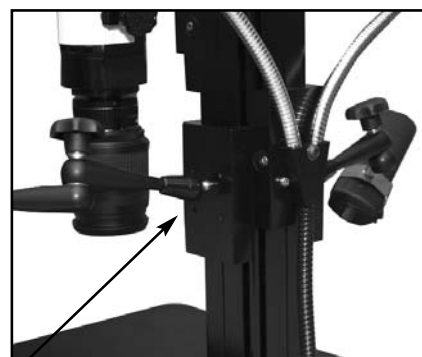Phone: 800-444-5333 • 763-546-8575
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Copy Stands

Simple Copy Stands

All adjustments to the stand are done with a 3mm wrench.

Leeds' simple copy stands column have a dovetail on all four sides, which allows for accessories like cameras and lighting to be added easily.

The Leeds Custom Products Department can design and build a wide range of custom simple copy stands to meet any of your projects needs.

Please contact Leeds for more information on our complete line of simple copy stands.

Measuring Systems

Three Axis Measuring System for the Olympus BX41RF/BX51RF

The **LPI-SIC4LE-.5UM**, **LPI-BX51ZHE** and **LPI-DRO3QC** modifications are a three axis, .5 um resolution, measuring system for the Olympus **BX41RF/BX51RF** frame with the Olympus **U-SIC4R2** mechanical stage. *(The Olympus U-SIC4R2 mechanical stage has 4" x 4" of travel).* Also available for the system is the **LPI-DRO3QC** three axis digital readout with RS232 output.

Order Product Number

LPI-SIC4LE-.5UM   2-Axis Linear Encoders with .5um resolution. Includes all parts and labor to install on customer's Olympus **U-SIC4R2** Mechanical stage.

LPI-BX51ZHE   Z-Axis Linear Encoder with .5um resolution Includes all parts and labor to install on customer's Olympus BX41RF/ BX51RF reflected light frame.

LPI-DRO3QC   3-Axis QC-130 Digital Readout with RS232 output.

The Leeds Customs Department requires the BX41RF/BX51RF and the U-SIC4R2 stage to perform the modifications.

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MS-1

by Leeds

Video Inspection System

The Leeds **LPI-SFHF25** Video Inspection System is a fully integrated video microscope that incorporating a lens, camera and display into one compact piece of equipment.

The Leeds **LPI-SFHF25** is designed to inspect parts with an adjustable field of view and magnification range. When combined with Leeds' **LMS-300** articulating arm and the **LMS-197** table clamp post, the **LPI-SFH25** becomes an ergonomic and work space friendly inspection system.

The **LPI-SFHF25** Video Inspection System includes:

Color analog video camera, 1/3" CCD
15" Color HD LCD monitor
4x to 15.2x magnification range
.54 x .41" to 2.06 x 1.54" field of view
1.8" to 10" working distance

LPI-SFHF25 Video Inspection System

Order Product Number

LPI-SFHF25   Video Inspection System
LMS-300   Articulating Arm
LMS-197   Table Clamp Post
LMA-036A   Drop Prevention Collar

Working Distance	Magnification at Monitor	Field of View
1.8" (min)	15.2x (max)	.54" x .41"
3"	14.3x	.74" x .56"
4"	8.90x	.92" x .70"
5"	7.35x	1.12" x .84"
6"	6.37x	1.30" x .94"
7"	5.57x	1.48" x 1.12"
8"	5.00x	1.64" x 1.24"
9"	4.53x	1.82" x 1.38"
10"	4.00x	2.06" x 1.54"

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MS-2

All in One Video Inspection System

LPI-SFHF25AIO "All in One" Video Inspection System

Leeds' All in One Video Inspection Systems is a LCD resistive touch screen, PC based vision system, that allows users to do their inspection on an integrated monitor.

The Leeds All in One Video Inspection System has an intergraded five megapixel color video camera, 25mm lens, LCD resistive touch screen computer, articulated arm for the lens and camera, and a movable arm which allows the end users to easily adjust the height and tilt of display to provide better ergonomic viewing.

The systems features include:
- 1X, 2X and 3X digital zoom settings - additional custom magnification settings available.
- Auto gain and white balance with magnification change.
- Ability to load your own digital reticle overlays with a bitmap file via a thumb drive.
- Reticle overlay can be changed to any color.
- Image capture and storage locally or via a thumb drive.
- View samples with ambient light or with optional LED lighting.
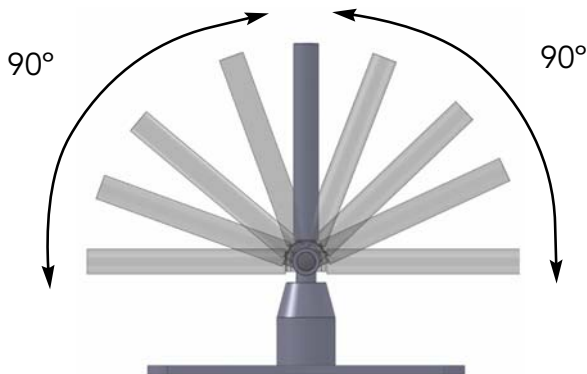- Customizable security levels.

Order Product Number

LPI-SFHF25AIO	All in One Video Inspection System
LMS-197-24	24" Post W/ C-Clamp Mount
LMS-300	Articulated Boom Arm
LMA-036A	Safety Collar for Boom Stand
LPI-BFM	Bonder Focus Mount
LMS-LEDLK	LED Spot Light Kit

Angle Pillar Stand

90°   90°

LMS-710 Angle Pillar Stand, LMS -700 Adjustable Height Stage and video camera

The **LMS-710** Angle Pillar Stand has an 32mm diameter post that can be adjusted to an angle of 180° of inclination - in 10° increments. The pivot point of the **LMS-710** is 4 ½" and all angle adjustments are done with a quick release push button.

The **LMS-710** includes a $^3/_8$" x 16" x 16" black anodized base and a 10" high post above the pivot point - additional heights available.

The **LMS-710** also includes the **LMS-700** Adjustable Height Stage mount that has a 1 ½" height adjustment range, which advances at ½" per turn of the adjusting ring. The **LMS-700** also includes a **BX/BX2** circular stage mount.

Order Product Number
LMS-710   Angle Pillar Stand with Height Adjustable Stage