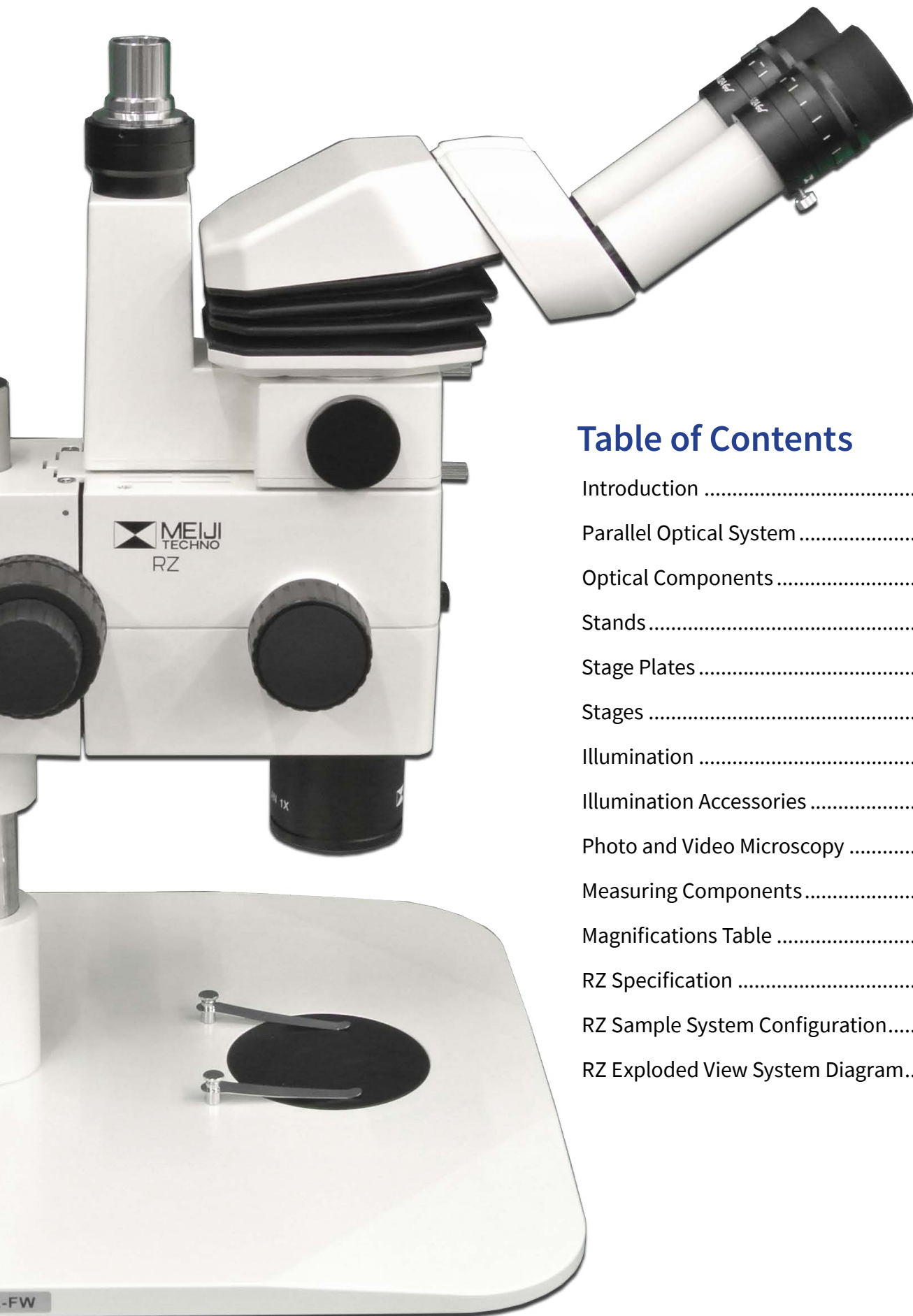


# RZ Series

Zoom Stereo Microscopes



The RZ Series delivers ergonomic, high performance and modularity design is built to fit for any researcher's need today.



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## A Researcher's Dream Microscope

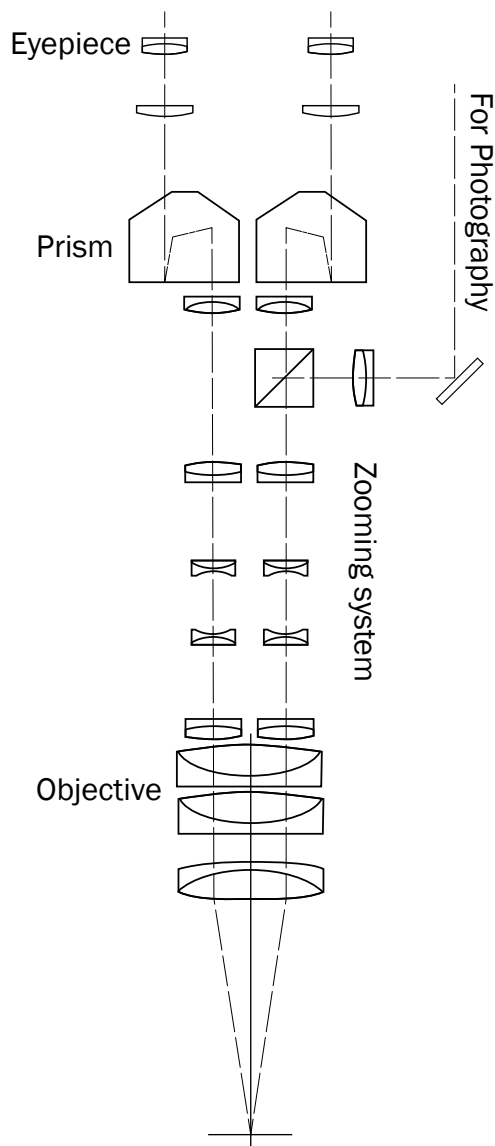
In any research field with a microscopy process such as in the life sciences and industrial fields, it is fundamental to have high optics and ergonomic tools in reproducing clear crisp images constantly. With this demand in mind, Meiji Techno created the RZ Stereo Series that offers an advanced, high performance and modularity to meet any researcher's need. This series revolves around a Common Main Objective that creates parallel optical paths producing crisp and distortion-free resolution images. It has ergonomic components such as zoom knobs, heads and stands that provide an ease of use and user-friendly design for any repetitive or microscopy task. In addition, the series offers a full range of optional accessories such as interchangeable objectives, interchangeable eyepieces, various illuminator choices, various types of stands and more. This series provides researchers the opportunity to customize their stereo microscopes based on their needs while having quality optics and ergonomics.



# Modularity that Maintains a Parallel Optical System

The RZ Series is a modular stereo microscope, which means you can build a system to meet your needs and your budget. The heart of the system is the RZ-B zoom stereo body with a double iris diaphragm and 1:10 zoom range. Add to this your choice of objectives, viewing heads, eyepieces, stands and host of other accessories and you can create instruments for a wide variety of specialized application.

The RZ Series is designed around two parallel optical paths which pass through a common main objective. The infinity system design allows for the quick change and easy introduction of intermediate optical components such as independent beam-splitter, coaxial illuminator, drawing tube, video or photo attachment which results in an instrument which can be configured for a wide range of applications.



## Specifications

### Type

Common Main Objective (CMO)  
Parallel Zoom System

### Total Magnification

From 3.75X to 225X  
(With optional eyepieces and objectives)

### Eyepieces

Ultra Wide Field, focus-able, 10X  
Ultra Wide Field, focus-able, 15X  
Ultra Wide Field, focus-able, 20X  
(10X, 15X, 20X accept reticles)

### Objectives

Plan Achromat 0.5X  
Plan Achromat 0.7X  
Plan Achromat 1.0X  
Plan Achromat 1.5X

### Zoom

Zoom Ratio of 1:10

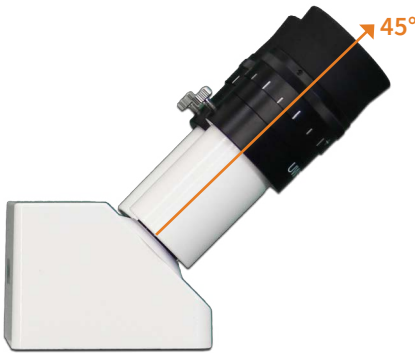
### Optical Viewing Heads

Standard 45° Binocular  
Adjustable Ergonomic Range 10° to 50°

# Optical Components

## Adjustable Viewing

Keeping the user in mind, Meiji Techno designed different viewing heads based on user's budget and ergonomics. The RZ series provides either a standard or ergonomic viewing heads that each offer their own adjustability.



MA748 Head + MA730 Eyepieces

The standard head is inclined at 45° with an interpupillary distance adjustment ranging from 46mm to 75mm. It accepts 30mm eyepieces.



MA749 Ergo Head + MA730 Eyepieces

The ergonomic head features low positioned eyetubes that can incline from 10° to 50° for comfortable, reduced fatigue and minimized stress viewing. Its interpupillary distance is adjustable from 52mm to 75mm.

## The Heart of the RZ System

The RZ body features a 10:1 zoom ratio, built-in variable double iris diaphragms, and positive detent click-stops at twelve positions of magnifications. Two perpendicular columns of eight zoom lenses in four groups move in a smooth continuous motion by rotation of the ergonomically sized and positioned zoom control. A magnification indicator is conveniently located on the zoom control.



## Interchangeable Eyepieces

Distortion-free, ultra widefield eyepieces with dioptric adjustment of plus or minus 5 diopters are available in powers of 10X, 15X and 20X. All eyepieces are provided with reticle mounts, and are also available with crossline reticle factory installed.



Eyepieces	Description	Field Number	Eye-Relief	Focal Length	Reticle Acceptance (O.D.*)
MA730	UWF 10X	24	21mm	25mm	25mm
MA731	UWF 10X with crossline	24	21mm	25mm	N/A
MA732	UWF 15X	16	17mm	16.6mm	19mm
MA733	UWF 15X with crossline	16	17mm	16.6mm	N/A
MA734	UWF 20X	12	12mm	12.5mm	19mm
MA735	UWF 20X with crossline	12	12mm	12.5mm	N/A

\*O.D. means Outer Diameter

## The Common Main Objectives (CMO)

High resolution, flat field, plan-achromatic common main objectives are available in the following magnification: 0.5X, 0.75X, 1.0X, and 1.5X



Objectives	Description	Working Distance
MA740	Plan Achromat Objective 0.5X	164mm
MA741	Plan Achromat Objective 0.75X	101mm
MA742	Plan Achromat Objective 1.0X	76mm
MA743	Plan Achromat Objective 1.5X	43mm

## Stands for the RZ Series



### RZP Plain Stand

The RZP plain stand contains an aluminum alloy base that is coated with an anti-static finish. The stage holds a 94.5mm diameter black and white plastic stage plate and two stage clips.

Base Dimensions: 280mm wide x 255mm deep x 35mm high

Pillar Height: 325mm



### RZ-FW Plain Wide-Surface Ergonomic Stand

The RZ-FW plain wide surface stand is used for brightfield observation for small to medium sized specimens. The stage holds a 94.5mm diameter black and white plastic stage plate and two stage clips.

Base Dimensions: 380mm wide x 300mm deep x 32mm high

Pillar Height: 325mm



### RZT Transmitted Light Stand

The RZT transmitted light stands are used for brightfield observation of transparent specimens. The RZT features a 6V, 30W halogen lamp with variable intensity control, 94.5mm diameter clear glass stage plate, two stage clips and an anti-static finish. A second transformer is incorporated into the base for use with the optional COX illuminator or auxiliary light source.

Base Dimensions: 280mm wide x 255mm deep x 85mm high

Pillar Height: 325mm



## RZBD/LED Brightfield/Darkfield Transmitted Light Stand

The RZBD/LED transmitted light stand is used for brightfield/darkfield observation of transparent specimens. The RZBD/LED stand incorporates a rotatable and sliding Y-axis mirror in base with a locking ring tension ring, a clear glass stage plate, and two stage clips. It also features a “pseudo” LED transmitted light darkfield illumination and an integrated automatic voltage sensing power supply of 115/240V. Quick change over from brightfield to darkfield observation is facilitated by an easy-to-reach front-mounted controls.

Base Dimensions: 380mm wide x 300mm deep x 95mm high

Pillar Height: 325mm

## Stage Plates

Our RZ plain stands include a black and white stage plate while our RZ light stands include a clear glass stage plate. Any extra stage plate are sold separately.



### Black/White Stage Plate

A circular black and white plastic stage plate that has a 94.5mm diameter for RZP and RZ-FW stands - MA568



### Acrylic Frosted Stage Plate

A circular acrylic stage plate with a frosted finish. Has a 94.5mm diameter for RZT and RZBD stands - MA567



### Glass Stage Plate

A circular clear glass stage plate that has a 94.5mm diameter for RZT and RZBD stands - MA569





RZ Configuration:

MA749: Ergonomic viewing head

MA730: UWF 10X eyepieces (2)

MA751: Photo/video attachment with sliding 80/20 beam splitter

RZ-B: 10:1 Zoom body with built-in dual iris diaphragm and click stops

MA742: 1.0X Plan Achromat objective

RZBD/LED: Brightfield/Darkfield LED transmitted light stand

MA964: LED ring illuminator with auto voltage sensing transformer

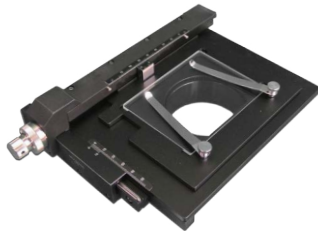
# Stages

Meiji Techno offers various mechanical stages that have precise controls to view mounted specimens easily. Depending on their functionality, each stage is compatible to certain RZ stands.



## Graduated Mechanical Stage for RZP and RZ-FW Stands

This stage has 0.1mm graduations and coaxial controls for precise control of mounted specimens. Features 116mm x 137mm work surface with stage clips, 50mm x 75mm X-Y travel. - MA578



## Graduated Mechanical Stage for RZT and RZBD Stands

This stage has 0.1mm graduations and coaxial controls for precise control of mounted specimens. Features 116mm x 137mm work surface with stage slips and 74mm x 96mm clear glass plate for use with transmitted light stands, 50mm x 65mm X-Y travel. - MA578/05



## Ungraduated Sliding Mechanical Stage for RZP and RZ-FW Stands

This stage features a 125mm x 170mm work surface with stage clips. Roller bearing mount allows smooth, easy fingertip control over 100mm x 100mm X-Y travel. - MA565



## Ungraduated Sliding Mechanical Stage for RZT and RZBD Stands

This stage features a 125mm x 170mm work surface with stage clips and a 94.5mm diameter clear glass plate for use with transmitted light stands. Roller bearing mount allows smooth, easy, fingertip control over 100mm x 100mm X-Y travel. - MA565/05



## Polarizing Stage for RZT and RZBD Stands

This is a 150mm diameter rotatable stage with vernier markings to 1°. Includes stage clips and 1/4 wave plate in sliding mount. Optional first order red plate is also available. - MA761

# Illumination

The RZ series provides different illuminator accessories that are designed to illuminate for certain groups of specimen depending on the researcher's field.



## Cox Vertical Illumination

Meiji Techno's coaxial illuminators are used for observing flat, high reflective specimens such as integrated circuits, semiconductor wafers, polished metal specimens, solder ball, or magnetic recording heads. The unit, COX illuminator, comes in halogen with a 6V, 30W halogen lamp and has an optional free-standing transformer (MA651/05 or MA651/10). The other unit called COX/LED also comes in LED.



## Oblique Illumination

A dual arm fiber optic illumination system is available for any RZ stereo microscope in the series. This system composes of either a Halogen/LED power supply (different voltages), a self-supporting dual arm light guides, connecting adapters and focusing lenses.



## Annular Illumination

An annular fiber optic light system is also available for any RZ stereo microscope system. Depending on the researcher's need, this light system will be composed of a Halogen/LED supply (different voltages), connecting adapter and an annular light guide.



## Ring Illumination

The RZ series has various ring light illuminators available depending on the user's needs. This series is compatible with various ring lights such as halogen, fluorescent and LED illumination. Depending on the ring light, we provide ring lights that can illuminate cool, warm and daylight illumination. Though, some ring lights would need an adapter accessory such as the MA308 to attach to the RZ objective.

# Additional Illuminator Accessories



## 1/4 Waveplate

A 1/4 wave plate is required when using the coaxial vertical illuminator to view reflective specimens. The quarter wave plate is attached to the bottom of the objective and is rotated to achieve the desired effect.



## Adapter Mount

An adapter mount is required when using specific ring illuminators to mount directly on RZ objectives. This mount has an inner diameter of 45mm and an outer diameter of 52mm.

## Filter Sets

The following optional paired optical filter sets are available.



Filter	Description
MA754	LB100 Blue clear filter in 18mm diameter mount
MA755	G533 Green clear filter in 18mm diameter mount
MA756	Y48 Yellow clear filter in 18mm diameter mount
MA757	ND2 Neutral density filter in 18mm diameter mount
MA758	ND8 Neutral density filter in 18mm diameter mount

# Photo and Video Microscopy

The RZ series is capable of turning its binocular stereo systems into trinocular versions by including additional photo/attachment accessories below. A RZ photo digital trinocular system usually consists of a MA751 photo/video attachment, a C-mount and a camera accessory in comparison to its binocular sibling.



## MA751 Photo/Video Attachment

The primary component necessary for photo or video work with the RZ stereo microscopes is the MA751 photo/video attachment. It allows you to take 35mm or large-format Polaroid photographs of your specimens, or to display your specimens on a video monitor. The MA751 photo/video attachment contains a beam-splitter prism which can be slid into the light path to redirect 80% of the light that would normally go to the eyepieces into the vertical photo tube behind the viewing head. This allows the user to view the specimen through the eyepieces while also taking photographs and/or displaying the image on a video monitor.

**NOTE:** Additional accessories are needed to attach 35mm or video cameras to the MA751.

## Video C-mounts

C-mounts are used to connect the video camera to the MA751 photo/video attachment and use the projection lenses of various magnifications.

**NOTE:** C-mounts with reduction lenses (i.e. magnification factors less than 1.0X) are commonly used to compensate for the magnification increase inherent in CCD cameras and monitors.

C-mount Adapters	Description
MA151/35/03	0.3X Lens
MA151/35/04	0.45X Lens
MA151/35/05	0.5X Lens
MA151/35/20	0.7X Lens
MA151/35/15	1.0X Lens
MA151/35/25	2.5X Lens





RZ Configuration:

MA748: Binocular viewing head

MA730: UWF 10X eyepieces (2)

MA751: Photo/video attachment with sliding 80/20 beam splitter

RZ-B: 10:1 Zoom body with built-in dual iris diaphragm and click stops

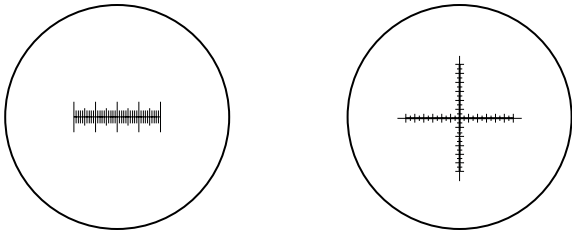
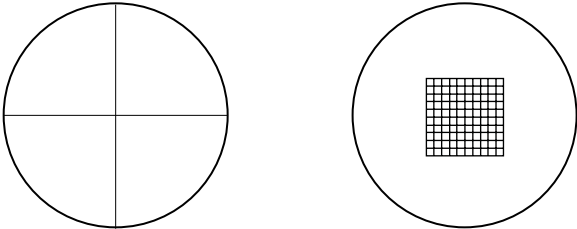
MA742: 1.0X Plan Achromat objective

RZ-FW: RZ Plain stand

MA151/35/03: C-mount 0.3X lens

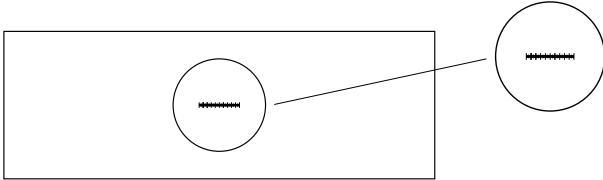
HD1500MET-M-AF: Auto-focusing measurement HD camera monitor

# Measuring Components

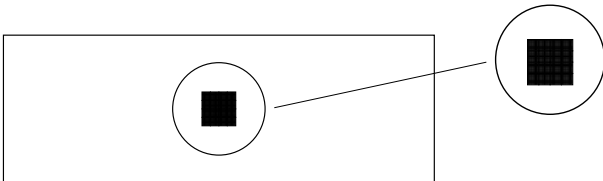


## Eyepiece Micrometers

Eyepiece micrometers can be inserted into the 10X, 15X, or 20X eyepieces for the purpose of specimen measurement. Linear scales, counting grids, and crossline micrometers are just a few of the choices available to facilitate measurement of your specimens.



0.01mm



0.01mm

## Stage Micrometers

Stage micrometers are used to calibrate the eyepiece micrometers. Stage micrometers are available with both English and metric scales for reflected and transmitted light.





## RZ SPECIFICATIONS

RZ-B Zoom Microscope Body	
Key Feature	Zoom body with focusing block
Zoom Ratio	10:1
Iris Diaphragm	Built-In
Click Stops	Included

Eyepieces	Description	Field Number	Eye-Relief	Focal Length
MA730	UWF 10X	24	21mm	25mm
MA731	UWF 10X with crossline	24	21mm	25mm
MA732	UWF 15X	16	17mm	16.6mm
MA733	UWF 15X with crossline	16	17mm	16.6mm
MA734	UWF 20X	12	12mm	12.5mm
MA736	UWF 20X with crossline	12	12mm	12.5mm

Objectives	Description	Working Distance
MA740	Plan Achromat objective 0.5X	164mm
MA741	Plan Achromat objective 0.75X	101mm
MA742	Plan Achromat objective 1.0X	76mm
MA743	Plan Achromat objective 1.5X	43mm

Viewing Heads	Description	Angle
MA748	RZ binocular head	45°
MA749	RZ binocular head, ergonomic type	10° – 50° adjustable

Photo/Video Attachment	Description
MA751	RZ photo tube attachment with 80/20 beam-splitter
C-mounts	
MA151/35/03	0.3X Lens
MA151/35/04	0.45X Lens
MA151/35/05	0.5X Lens
MA151/35/15	1.0X Lens
MA151/35/20	0.7X Lens
MA151/35/25	2.5X Lens

Stands	Stands Type	Key Features	Illumination	Dimensions
RZP	Plain	Includes white/black stage plate, 12.79" (325mm) pillar	N/A	280mm wide x 255mm deep x 35mm high, 11" x 10" x 1.38"
RZT/100	Plain Light Stand	12.79" (325mm) pillar, main Voltage: 110/120V (available in 220V/240V - RZT/200)	Transmitted illumination, halogen 6V, 30W	280mm wide x 255mm deep x 85mm high, 11" x 10" x 3.35"
RZ-FW	Plain Wide Surface	Ergonomic plain stand, includes black and white stage plate	N/A	380mm wide x 300mm deep x 32mm high, 15" x 11.875" x 1.26"
RZBD/LED	Brightfield/Darkfield Light Stand	Rotatable and sliding Y-axis mirror base with locking tension ring, includes auto sensing power supply, main voltage: 115/240V	"Pseudo" Transmitted LED illumination	380mm wide x 305mm deep x 95mm high, 15" x 12" x 3.74"
BAS-1	Boom	Ball bearing stand with dual horizontal arms, 25" vertical post, 32mm straight mounting post	N/A	330mm wide x 330mm deep x 38mm high, 13" x 13" x 1.5"

Illuminators	Illuminator Type	Light Type	Description
COX	Coaxial Vertical Illuminator	Halogen	6V, 30W without transformer, requires MA762 1/4 waveplate in mount for RZ plan objective
COX/LED	Coaxial Vertical Illuminator	LED	Includes a transformer, requires MA762 1/4 wave plate in mount for RZ plan objective, also cannot be used with MA751 photo attachment
FL151	Dual Arm Fiber Optic	Halogen	150W fiber optic, 110/115V (available in 220/240V - FL151/220)
FL152	Annular Fiber Optic	Halogen	150W fiber optic, 110/115V (available in 220/240V - FL152/220)
FT191	Dual Arm Fiber Optic	Halogen	150W fiber optic, 110/115V (available in 220/240V - FT191/220)
FT192	Annular Fiber Optic	Halogen	150W fiber optic, 110/115V (available in 220/240V - FT192/230)
MA305/100	Ring Light	Fluorescent	Includes starter 110V, needs MA308 adapter (available in 220/230V - MA305/200)
MA964	Ring Light	LED	10W, includes auto voltage sensing power supply, 150V or 240V with 60 LED Array, adapter not needed
MA961/S/ESD	Ring Light	LED	Includes 40 LED array, supplied with controller and power supply, available in Daylight, Cool White, and Warm White, needs MA308 adapter
MA961/40	Ring Light	LED	Includes 40 LED array, 66mm inner diameter, supplied with 4 quadrant controller and auto voltage sensing supply, available in Daylight, Cool White and Warm White
MA961/80/ESD	Ring Light	LED	Includes 80 LED array, adjustable intensity, 5W, supplied with dual quadrant controller and power supply

Stage Components	Description
MA578	Coaxial controlled graduated mechanical stage for RZP and RZ-FW stands, 50mm x 75mm
MA578/05	Coaxial controlled graduated mechanical stage with clear glass plate for RZT and RZBD Stands, 50mm x 75mm
MA565	Ungraduated sliding mechanical stage for RZP and RZ-FW stands, 100mm x 100mm
MA565/05	Ungraduated sliding mechanical stage with clear glass stage plate for RZT and RZBD stands, 100mm x 100mm
MA761	Rotatable stage with polarizer and 1/4 wave plate in sliding mounts, reading to 1° rotation, 150mm diameter for RZT and RZBD stands
MA761/05	Thin specimen plate (use with MA761 when viewing thin sections)
MA762	1/4 wave plate for use with COX illuminator
MA763	Replacement polarizer in sliding mount for use with MA761
MA764	1st order red compensating plate in sliding mount for use with MA761
MA771	Replacement 1/4 wave plate in sliding mount for use with MA761
MA567	Acrylic stage plate, frosted, 94.5mm diameter for RZT and RZBD stands
MA568	Black and white plastic stage plate, 94.5mm diameter for RZP and RZ-FW stand
MA569	Glass stage plate, clear, 94.5mm diameter for RZT and RZBD stands

Other Accessories	Description
MA550/15	Polarizing filter (analyzer) in mount for RZ plan objective
MA667	Polarizing plate (polarizer) for use with RZT stands (recommended to use with MA550/15)
MA555	Gem clamp
MA593	Stage clips (paired)
MA688	Replacement pillar, 500mm long
MA767	Blue clear filter for RZT and RZBD stands, 59.8mm diameter
MA766	Heat protecting filter for RZT and RZBD stands, 59.8mm diameter

# Sample System Configurations



MA748: Binocular viewing head  
 MA730: UWF 10X eyepieces (2)  
 RZ-B: 10:1 Zoom body with built-in dual iris diaphragm and click stops  
 MA742: 1.0X Plan Achromat objective  
 RZP: RZ Plain stand



MA748: Binocular viewing head  
 MA730: UWF 10X eyepieces (2)  
 MA751: Photo/video attachment with sliding 80/20 beam splitter  
 RZ-B: 10:1 Zoom body with built-in dual iris diaphragm and click stops  
 MA742: 1.0X Plan Achromat objective  
 RZ-FW: Plain wide surface stand



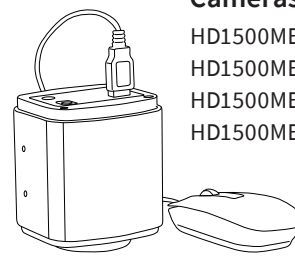
MA749: Ergonomic viewing head  
 MA730: UWF 10X eyepieces (2)  
 RZ-B: 10:1 Zoom body with built-in dual iris diaphragm and click stops  
 MA742: 1.0X Plan Achromat objective  
 RZBD/LED: Brightfield/Darkfield LED transmitted light stand



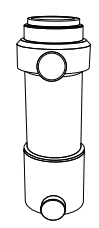
MA749: Ergonomic viewing head  
 MA730: UWF 10X eyepieces (2)  
 MA751: Photo/video attachment with sliding 80/20 beam splitter  
 RZ-B: 10:1 Zoom body with built-in dual iris diaphragm and click stops  
 MA742: 1.0X Plan Achromat objective  
 RZT/100: Brightfield 100V, 30W transmitted light stand

# RZ System Diagram

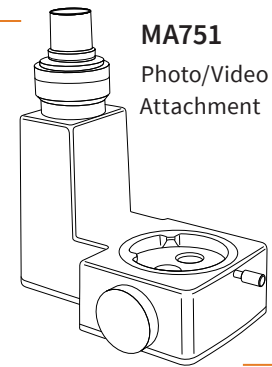
**Cameras**  
 HD1500MET  
 HD1500MET-AF  
 HD1500MET-M  
 HD1500MET-M-AF



**C-Mounts**  
 MA151/35/03 0.3X  
 MA151/35/04 0.45X  
 MA151/35/05 0.5X  
 MA151/35/15 1.0X  
 MA151/35/20 0.7X  
 MA151/35/25 2.5X



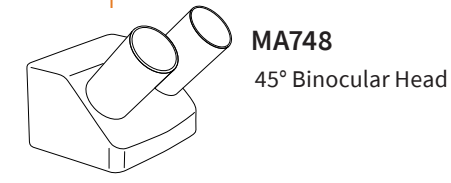
**MA751**  
 Photo/Video Attachment



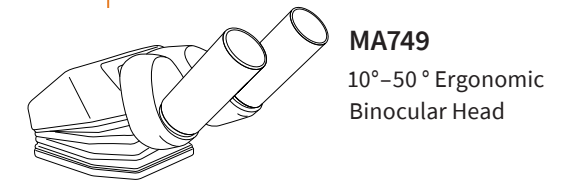
**MA730** UWF10X Eyepiece  
**MA731** UWF10X Eyepiece with Crossline  
**MA732** UWF15X Eyepiece  
**MA733** UWF15X Eyepiece with Crossline  
**MA734** UWF20X Eyepiece  
**MA733** UWF20X Eyepiece with Crossline



**MA748**  
 45° Binocular Head



**MA749**  
 10°-50° Ergonomic Binocular Head



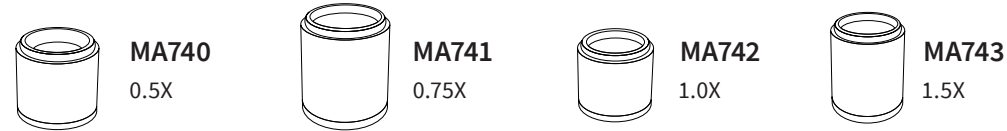
**MA550/15**  
 Polarizing Filter (Analyzer)



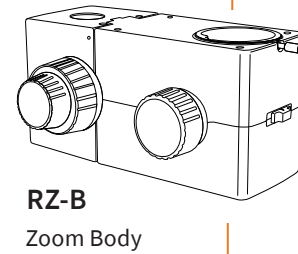
**MA762**  
 1/4 Wave Plate



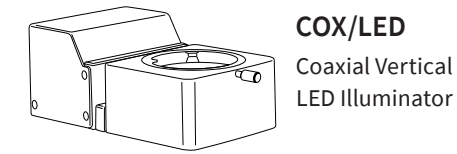
**MA740** 0.5X  
**MA741** 0.75X  
**MA742** 1.0X  
**MA743** 1.5X



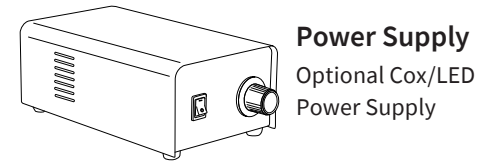
**RZ-B**  
 Zoom Body



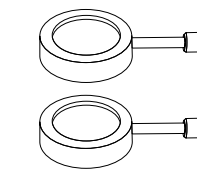
**COX/LED**  
 Coaxial Vertical LED Illuminator



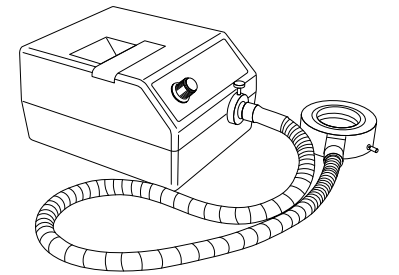
**Power Supply**  
 Optional Cox/LED Power Supply



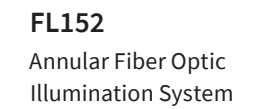
**Optional Filters for COX Lights**  
 MA754 LB100 Clear Blue  
 MA755 G533 Clear Green  
 MA756 Y48 Clear Yellow  
 MA757 ND2 Neutral Density  
 MA758 ND8 Neutral Density



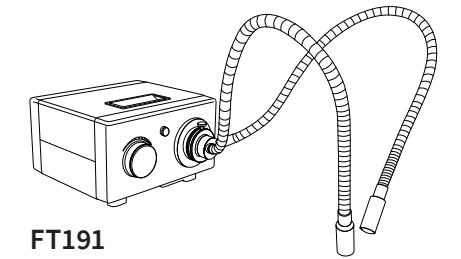
**FL152**  
 Annular Fiber Optic Illumination System



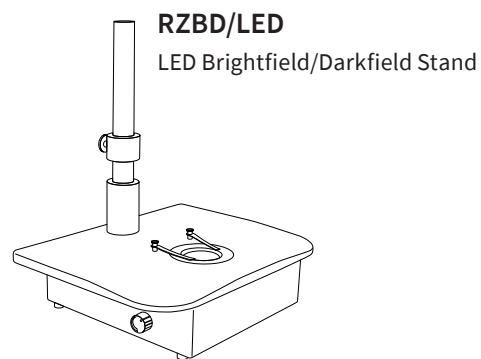
**FT191**  
 Dual Arm Fiber Illumination System



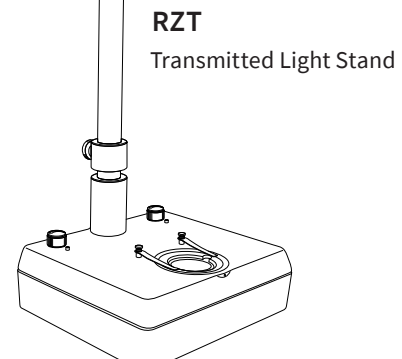
**FT191**  
 Dual Arm Fiber Illumination System



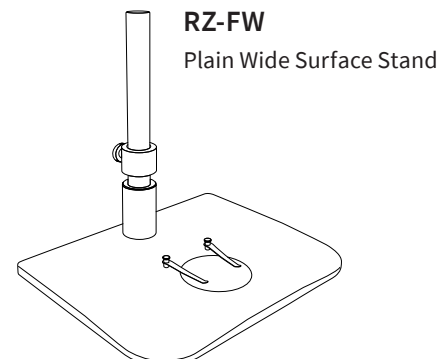
**RZBD/LED**  
 LED Brightfield/Darkfield Stand



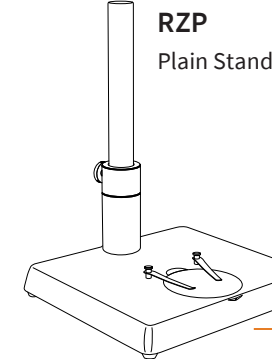
**RZT**  
 Transmitted Light Stand



**RZ-FW**  
 Plain Wide Surface Stand



**RZP**  
 Plain Stand



**MA688**  
 Pillar Only  
 500mm Long



**MA567**  
 Acrylic Frosted Stage Plate



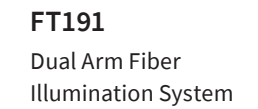
**MA568**  
 Black/White Plastic Stage Plate



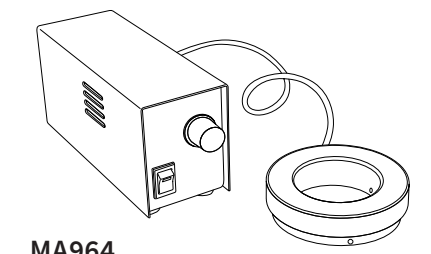
**MA569**  
 Glass Stage Plate



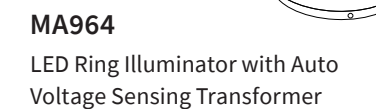
**FT191**  
 Dual Arm Fiber Illumination System



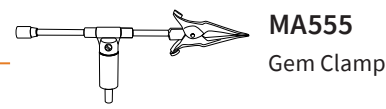
**MA964**  
 LED Ring Illuminator with Auto Voltage Sensing Transformer



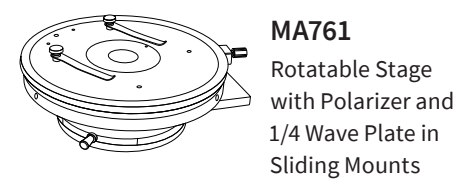
**MA964**  
 LED Ring Illuminator with Auto Voltage Sensing Transformer



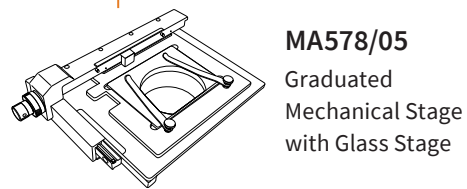
**MA555**  
 Gem Clamp



**MA761**  
 Rotatable Stage with Polarizer and 1/4 Wave Plate in Sliding Mounts



**MA578/05**  
 Graduated Mechanical Stage with Glass Stage



**MA564/05**  
 Ungraduated Mechanical Stage with Glass Plate



**MA578**  
 Graduated Mechanical Stage



**MA565**  
 Ungraduated Mechanical Stage



**MA308**  
 Adapter Mount

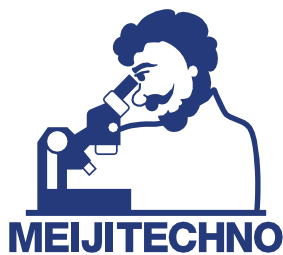


Specifications and design are subject to change without notice for improvements


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ISO9001  
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