



E Series

PARALLEL ZOOM STEREO MICROSCOPE

Exceptional Clarity and Comfort.

CMO-PK2E binocular microscope system with filling head and dual LED track stand. Please see P. 21-22 for all E-Series System Packages.

MICROSCOPE FEATURES



Stackable Accessories
A parallel infinity corrected optical system that allows for ergonomic customization and stacking of several components without distorting the image.



Less Operator Fatigue
Eyepiece inclination of 20° allows you to observe without having to lean forward which reduces fatigue during long hours of operation.



Optimum User Comfort
Eyepieces tilt and rotate to adjust for operator height. Eyepieces rotate 180 degrees with three inches of travel. Inclination is adjustable from 0 to 45 degrees.

Our most advanced microscope yet.

The first ever parallel stereo zoom microscope system from SCIENSCOPE. This microscope is comparable to leading brand manufacturers, see it for yourself. Years of development and design have yielded the first affordable high performance system of its kind.

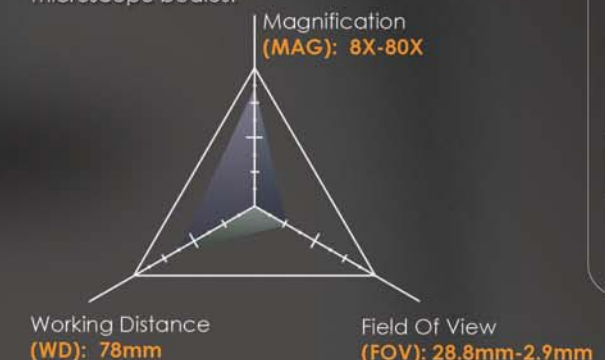
DATA SHEET

E-Series Body Specifications

Microscope body zoom range:	0.8X – 8X
Magnification:	8X-80X (w/ 10X eyepieces)
Zoom Ratio:	1:10
Field of View:	28.8mm-2.9mm (w/ 10X eyepieces)
Working Distance:	78mm
Dioptric Adjustment:	±5
Interpupillary Adjustment:	51-75mm
Eyepieces Inclination:	20°
Microscope Ring Mount Diameter:	76mm

Specification at a glance

Use the graph to compare this unit with other microscope bodies.



Above information is based on a E-Series microscope body with 10X eyepieces and 1X objective lens, and 1:10 Zoom Body.

E-Series Optical Specifications

Objective Lens	Zoom Body	Eyepieces						Working Distance
		10X		20X		30X		
		MAG	FOV (mm)	MAG	FOV (mm)	MAG	FOV (mm)	
0.5X	1:6	4x-25x	57.5-9.2	8x-50x	35-5.6	12x-75x	25-4	187mm
	1:8	4x-32x	57.5-7.2	8x-64x	35-4.4	12x-96x	25-3.1	
	1:10	4x-40x	57.5-5.8	8x-80x	35-3.5	12x-120x	25-2.5	
1X	1:6	8x-50x	28.8-4.6	16x-100x	17.5-2.8	24x-150x	12.5-2	78mm
	1:8	8x-64x	28.8-3.6	16x-128x	17.5-2.2	24x-192x	12.5-1.6	
	1:10	8x-80x	28.8-2.9	16x-160x	17.5-1.8	24x-240x	12.5-1.3	
2X	1:6	16x-100x	14.4-2.9	32x-200x	8.8-1.4	48x-300x	6.3-1	35mm
	1:8	16x-128x	14.4-2.3	32x-256x	8.8-1.1	48x-384x	6.3-0.8	
	1:10	16x-160x	14.4-1.8	32x-320x	8.8-0.9	48x-480x	6.3-0.6	

E-Series Video Specifications

Objective Lens	Zoom Body	Video Coupler				Working Distance
		0.5X		0.35X		
		MAG	FOV (mm)	MAG	FOV (mm)	
0.5X	1:6	14x-87.3x	35-5.6	9.8x-61.1x	57.1-9.1	187mm
	1:8	14x-111.8x	35-4.4	9.8x-78.2x	57.1-7.1	
	1:10	14x-139.7x	35-3.5	9.8x-97.8x	57.1-5.7	
1X	1:6	27.9x-174.6x	17.5-2.8	19.6x-122.2x	28.5-4.6	78mm
	1:8	27.9x-223.5x	17.5-2.2	19.6x-156.5x	28.5-3.6	
	1:10	27.9x-279.4x	17.5-1.8	19.6x-195.6x	28.5-2.9	
2X	1:6	55.9x-349.3x	8.8-1.4	39.1x-244.5x	14.3-2.3	35mm
	1:8	55.9x-447x	8.8-1.1	39.1x-312.9x	14.3-1.8	
	1:10	55.9x-558.8x	8.8-0.9	39.1x-391.2x	14.3-1.4	

* Based on 1/2" Camera & 22" Monitor.

OPTICAL MAGNIFICATION FORMULA
Total Magnification = (Mag. of Eyepieces) X (Mag. of objective zoom range on body) X (Mag. of objective lens)
VIDEO MAGNIFICATION FORMULA
Total Magnification = (Mag. of CCD) X (Mag. of eyepieces) X (Mag. of objective zoom range on body) X (Mag. of objective lens) X (Diagonal display)

E-Seires Microscope Configuration Chart

E-Series Binocular Configuration

Minimum required components that comprise a binocular microscope system:

- Eyepieces
- Binocular Head
- Zoom Body
- Objective Lens

E-Series Microscope configured as a binocular system with 0°-45° Tilting Head.

E-Series Trinocular Configuration

Minimum required components that comprise a trinocular microscope system:

- Eyepieces
- Binocular Head
- Video Splitter
- Video Coupler
- Zoom Body
- Objective Lens
- Digital Camera
- Iris Diaphragm is optional

E-Series Microscope configured as a trinocular system with optional video splitter, video coupler, Iris, and CMOS Camera.





E-Series Boom Stand Binocular Systems

- Package Contents
- 20° binocular head
 - 10x eyepieces
 - 1:6 zoom body
 - 0.5x achromatic objective lens
 - Focus mount
 - Gliding boom stand
 - Your choice of lighting

Package	Part Number
w/ fluorescent ring light	CMO-PK5-FR
w/ adjustable LED ring light	CMO-PK5-LED
w/ fiber optic annular ring light	CMO-PK5-AN
w/ fiber optic dual pipe light	CMO-PK5-DPL



E-Series Dual LED Track Stand Binocular Systems

- Package Contents
- 20° binocular head
 - 10x eyepieces
 - 1:6 zoom body
 - 1x objective lens
 - Dual LED track stand

Package	Part Number
◀ 20° Binocular Head on Dual LED track Stand	CMO-PK2



E-Series Boom Stand Binocular Systems

- Package Contents
- 0° - 45° tilting binocular head
 - 10x eyepieces
 - 1:6 zoom body
 - 0.5x achromatic objective lens
 - Focus mount
 - Gliding boom stand
 - Your choice of lighting

Package	Part Number
w/ fluorescent ring light	CMO-PK5E-FR
w/ adjustable LED ring light	CMO-PK5E-LED
w/ fiber optic annular ring light	CMO-PK5E-AN
w/ fiber optic dual pipe light	CMO-PK5E-DPL



E-Series Dual LED Track Stand Binocular Systems

- Package Contents
- 0° - 45° tilting binocular head
 - 10x eyepieces
 - 1:6 zoom body
 - 1x objective lens
 - Dual LED track stand

Package	Part Number
◀ 0° - 45° Tilting Binocular Head on Dual LED track stand	CMO-PK2E

Standard Microscope Bodies

5 Years All microscope bodies come with a 5 year manufacturer's warranty.

Item	Part Number
SSZ-II Binocular Microscope Body	SZ-BD-B2A
SSZ-II Trinocular Microscope Body	SZ-BD-T3A
NZ Binocular Microscope Body	NZ-BD-B2
NZ Trinocular Microscope Body	NZ-BD-T3
ELZ Binocular Microscope Body	ELZ-BD-B2



Parallel Zoom Microscope Components

5 Years All microscope bodies and components come with a 5 year manufacturer's warranty.

Item	Part Number
20° Binocular Head	CMO-BH2
0°-45° Tilting Binocular Head	CMO-BHE
Zoom Body (1:6)	CMO-BD-16
Zoom Body (1:8)	CMO-BD-18
Zoom Body (1:10)	CMO-BD-110
Aperture Diaphragm	CMO-IRIS
Video Splitter	CMO-BH-23



Micro/Macro Zoom Video Lens

5 Years All zoom lens come with a 5 year manufacturer's warranty.

Item	Part Number
MZ7 Micro Zoom Lens	MZ7-ZOOM
MAC Macro Zoom Lens	CC-97-LN1



Eyepieces/Eyecups

5 Years All eyepieces come with a 5 year manufacturer's warranty.

Item	Part Number
SSZ-II Eyepieces (20X) pair	SZ-LE-W20
SSZ-II Eyepieces (10X) pair	SZ-LE-W10
NZ Eyepieces (20X) pair	NZ-LE-W20
NZ Eyepieces (15X) pair	NZ-LE-W15
NZ Eyepieces (10X) pair	NZ-LE-W10
ELZ Eyepieces (20X) pair	ELZ-LE-W20
ELZ Eyepieces (15X) pair	ELZ-LE-W15
ELZ Eyepieces (10X) pair	ELZ-LE-W10
NZ/ELZ Eye Guard pair	NZ-88-EC
E-Series Eyepieces (30X) pair	CMO-LE-W30
E-Series Eyepieces (20X) pair	CMO-LE-W20
E-Series Eyepieces (10X) pair	CMO-LE-W10



Objective Lens

5 Years All objective lens come with a 5 year manufacturer's warranty.

Item	Part Number
SSZ-II Objective Lens (2X)	SZ-LA-20
SSZ-II Objective Lens (1.5X)	SZ-LA-15
SSZ-II Objective Lens (0.75X)	SZ-LA-07
SSZ-II Objective Lens (0.5X)	SZ-LA-05
SSZ-II Objective Lens (0.4X)	SZ-LA-04
SSZ-II Objective Lens (0.3X)	SZ-LA-03
SSZ-II Protective Lens	SZ-LA-CG
NZ Objective Lens (2X)	NZ-LA-20
NZ Objective Lens (0.5X)	NZ-LA-05
ELZ Objective Lens (2X)	ELZ-LA-20
ELZ Objective Lens (0.5X)	ELZ-LA-05
E-Series Objective Lens (Plan 2X)	CMO-LA-20
E-Series Objective Lens (Plan 1X)	CMO-LA-10
E-Series Objective Lens (Plan Apo 0.5X)	CMO-LA-05A
E-Series Objective Lens (Achromatic 0.5X)	CMO-LA-05
MZ7 Objective Lens (2X)	MZ7-LA-20
MZ7 Objective Lens (0.75X)	MZ7-LA-07
MZ7 Objective Lens (0.5X)	MZ7-LA-05
MZ7 Objective Lens (0.25X)	MZ7-LA-02



SSZ-II



SSZ-II Video Coupler (0.5X) SSZ-II Video Coupler (1X)

E-Series



E-Series Video Coupler (0.5X) E-Series Video Coupler (0.35X)

NZ



NZ Video Coupler (0.4X)

MZ7



MZ7 Video Coupler (2X) MZ7 Video Coupler (1X) MZ7 Video Coupler (0.67X) MZ7 Video Coupler (0.5X)

Video Couplers

5 Years All video couplers come with a 5 year manufacturer's warranty.

Item	Part Number
SSZ-II Video Coupler (1X)	SZ-CP-10A
SSZ-II Video Coupler (0.5X)	SZ-CP-05A
NZ Video Coupler (0.4X)	NZ-CP-04
MZ7 Video Coupler (2X)	MZ7-CP-20
MZ7 Video Coupler (1X)	MZ7-CP-10
MZ7 Video Coupler (0.67X)	MZ7-CP-07
MZ7 Video Coupler (0.5X)	MZ7-CP-05
E-Series Video Coupler (0.5X)	CMO-CP-05
E-Series Video Coupler (0.35X)	CMO-CP-03

Digital Cameras

1 Year All cameras come with 1 year manufacturer's warranty.

Item	Part Number
2 Mega Pixel Widescreen Camera	CC-WSXGA-CD1
1.3 Mega Pixel XGA Camera	CC-XGA-CD4
3 Mega Pixel USB Digital Camera	CC-USB-CD3
5 Mega Pixel USB Digital Camera	CC-USB-CD5
Eye-piece Camera	CC-LCD-CD3



Software

Item	Part Number
Image Conversion Software for (CC-XGA-CD4)	IC-150
Advanced Measurement Software	IC-250



IC150 Software

IC250 Software

Monitors & Mounts

1 Year All monitors and monitor arm mounts come with 1 year manufacturer's warranty.

Item	Part Number
8" Color LCD Monitor	CC-LCD-08
22" Color Widescreen LCD Monitor	CC-LCD-22W
Desk Mount Arm for LCD Monitor	CC-MM-20
LCD Monitor Mount for Boom Stand	CC-MM-20B



8" LCD Monitor

22" LCD Monitor

Desktop LCD Mount

LCD Mount for Single/Dual Arm Boom Stands

Light Sources

1 Year All light sources come with 1 year manufacturer's warranty. LED light is 3 years.

Item	Part Number
Fluorescent Ring Light	IL-FR-24
8-Point LED Ring Light ID: 2.4"	IL-LED-R2E
6-Point LED Ring Light ID: 1.6"	IL-LED-R1E
LED Ring Light w/ built-in power supply	IL-LED-E1
LCD Back Light Illuminator	IL-BL-48
LED Fiber Optic Illuminator ESD	IL-FOI-L24
Fiber Optic Annular Ring Light	FC-A2-36
Fiber Optic Dual Pipe Light	FC-DP-18



Fluorescent Ring Light

Compact LED Ring Light

8-Point LED Ring Light

6-Point LED Ring Light

LCD Back Light

LED Fiber Optic Illuminator

Fiber Optic Annular Ring Light

Fiber Optic Dual Pipe Light

Filters

1 Year All filters come with 1 year manufacturer's warranty.

Item	Part Number
Polarizer for IL-LED-R2E	IL-LED-R2EP
Polarizer for IL-LED-R1E	IL-LED-R1EP
Polarizer for FC-A2-36	IL-AN-PLRZ
Fiber Optic Illuminator Color Filter Kit	IL-FOI-L24-FK



Polarizer for Fiber Optic Annular Ring Light (FC-A2-36)

Polarizer for 8-Point LED Ring Light (IL-LED-R2E)

Polarizer for 6-Point LED Ring Light (IL-LED-R1E)

Color Filter Kit for LED Fiber Optic Illuminator (IL-FOI-L24)