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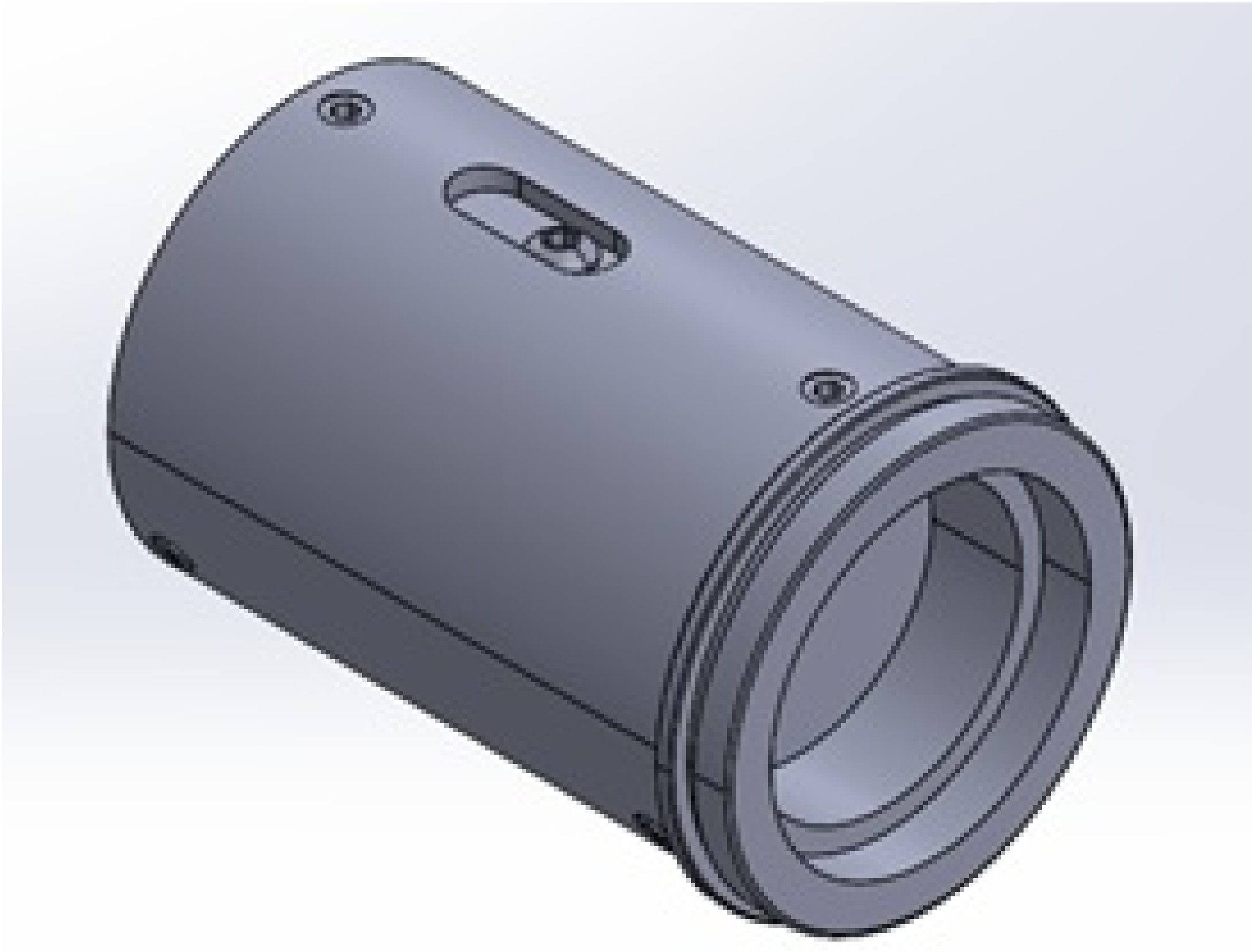
0.5X Camera Tube



Stock **#89-868** **20+ In Stock**

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Product Downloads

General

Note:
Camera Tube (One Required)

Type:
Modular High Magnification Zoom Lens

Title:
0.5X Camera Tube

Optical Properties

Magnification:
0.5X

Regulatory Compliance

RoHS 2015:	**Certificate of Conformance:**
Compliant	View
Reach 235:	
Compliant	

Product Details

- Wide Range of Magnifications Achievable
- Interchangeable Components Provide Maximum Flexibility
- Motorized and Inline Options Available
- **7X and 12.5X High Precision Zoom Lens Kits** Also Available

7X and 12.5X High Precision Zoom Lenses are modular lens systems that consist of a camera mount, camera tube, core module, lower function module, and lower lens. Added versatility is achieved by swapping out modules to change magnification, field of view, or the optical pathway. 7X and 12.5X High Precision Zoom Lenses are compatible with M26 x 36 TPI Mitutoyo-style objectives and with camera sensor coverages and mounts ranging from C-Mount to F-Mount and to 35mm DSLR cameras. 50/50 and 90° cubes are available to introduce right angle turns or to support multiple imaging paths. A motor controller for multi-axis zoom and focus functionality is also available and can be connected to USB, Ethernet, or RS-232/422/285 ports.

Zoom Lens Technical Guide

This downloadable PDF includes everything you need to configure and get started with your zoom lens. Inside, you'll find:

- Guidance on selecting components to best meet application needs
- Required components and how they are integrated
- Available accessories, including in-line illumination
- Par-focalization and par-centering guidance
- Optical performance specifications

Download Zoom Lens Technical Guide

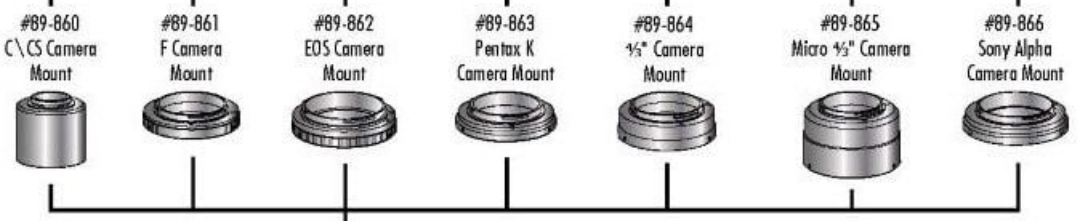
A complete zoom lens requires a camera mount, camera tube, zoom module, lower function module, and lower lens. An item selection guide can be found on the Technical Information tab.

LIGHTING ACCESSORIES

ILLUMINATION

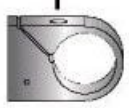
CAMERA

CAMERA MOUNTS



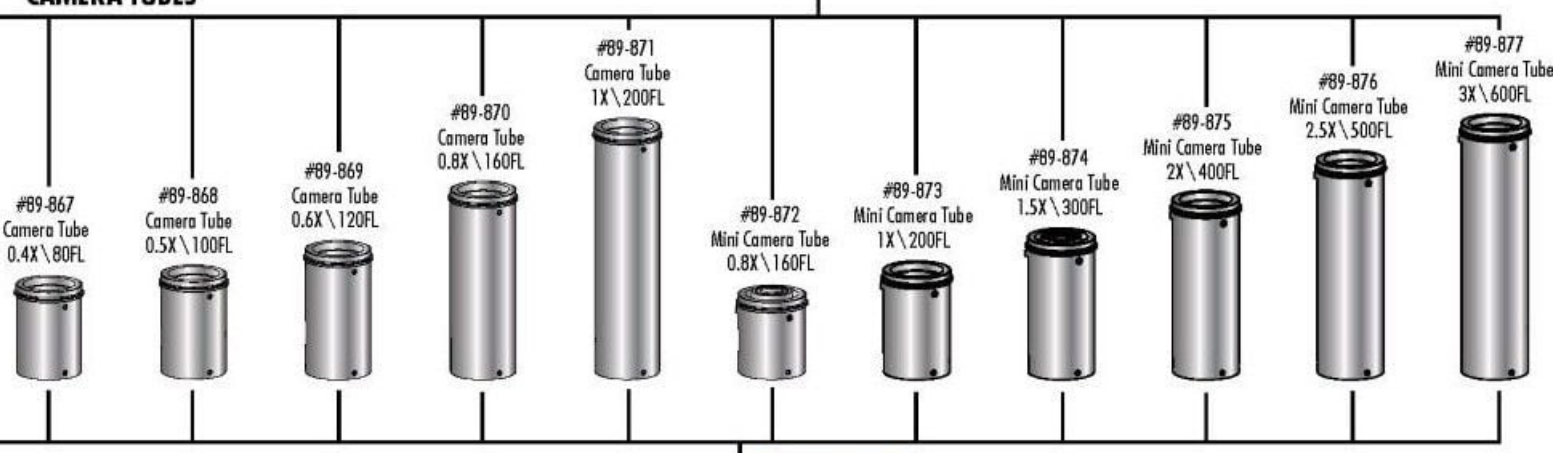
CAMERA TUBES

MOUNTING



#89-911
Camera Tube
Clamp

#89-924
Tube Clamp Mount, 76mm Dia.
#89-925
Tube Clamp Mount, 82mm Dia.
#89-926
Tube Clamp Mount, 83mm Dia.
#89-927
Tube Clamp Mount, 84mm Dia.



ACCESSORIES

ZOOM MODULES

7X ZOOM

12.5X ZOOM

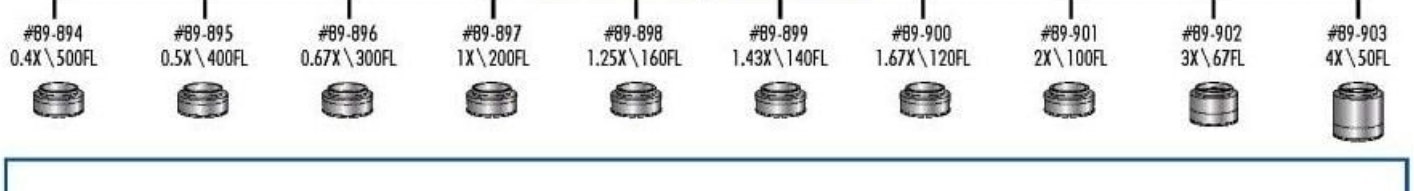
ACCESSORIES

LOWER FUNCTION MODULES

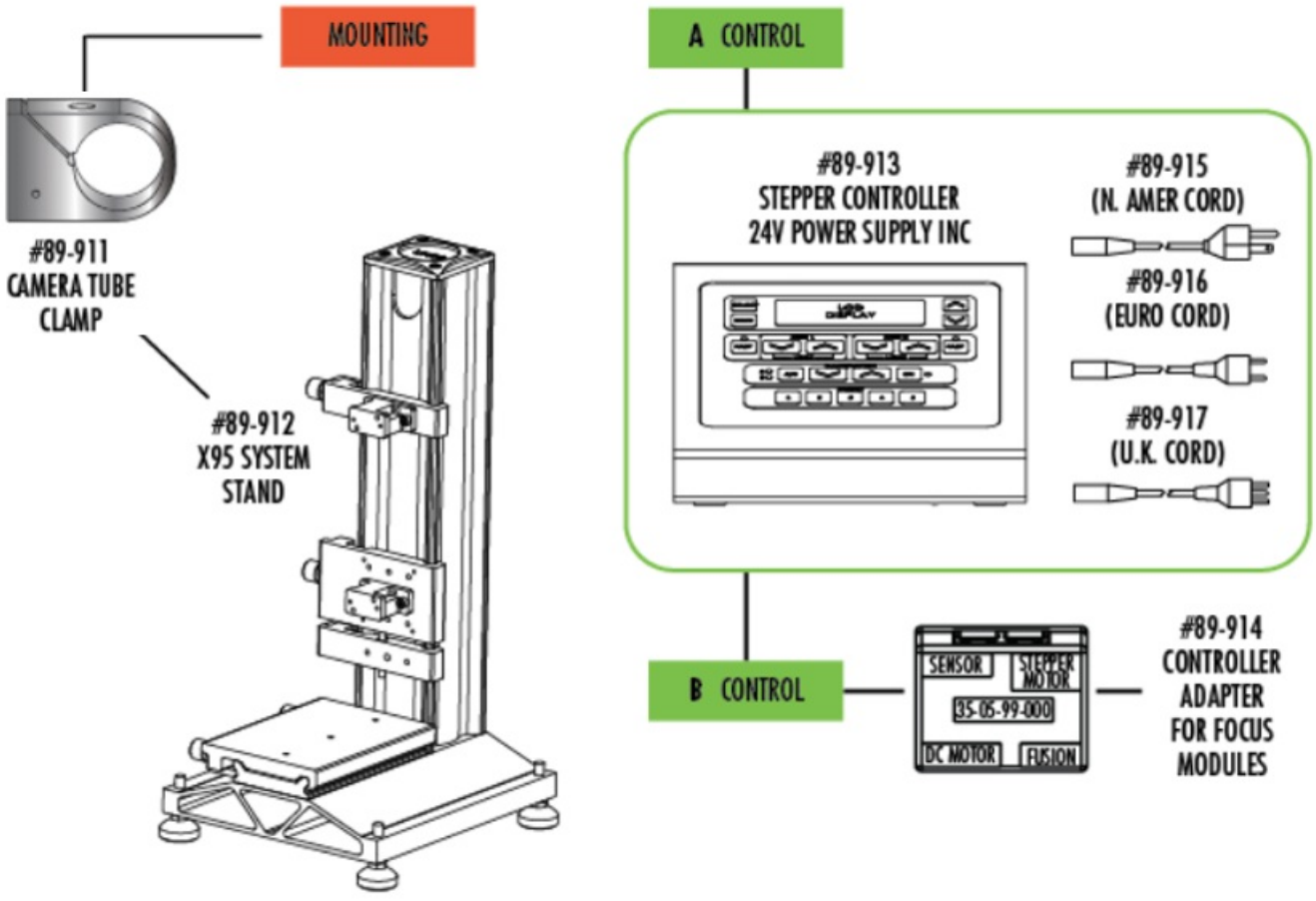
ACCESSORIES

ILLUMINATION

LOWER LENSES



ACCESSORIES



Technical Information

Specifications													
Lower Lens:		**0.4X Lower Lens**				**1.0X Lower Lens**				**4.0X Lower Lens**			
Working Distance:		**490mm**				**190mm**				**32mm**			
Zoom Modules:		**7X Zoom**		**12.5X Zoom**		**7X Zoom**		**12.5X Zoom**		**7X Zoom**		**12.5X Zoom**	
Max Coax. FOV Dia.:		**Not Recommended**		**Not Recommended**		**Not Recommended**		**20mm**		**9.4mm**		**9.9mm**	
Range:		**Low Mag**	**High Mag**	**Low Mag**	**High Mag**	**Low Mag**	**High Mag**	**Low Mag**	**High Mag**	**Low Mag**	**High Mag**	**Low Mag**	**High Mag**
0.4X Camera Tube	NA	0.0047	0.016	0.0036	0.019	0.012	0.039	0.009	0.048	0.047	0.16	0.036	0.19
	Res (lp/mm)	14	47	11	58	35	116	27	144	142	435	108	576
	PMAG	0.067X	0.46X	0.045X	0.55X	0.17X	1.2X	0.11X	1.4X	0.67X	4.6X	0.45X	5.5X
	DOF (mm)	25	2.4	44	1.5	4.1	0.38	7	0.25	0.25	0.024	0.44	0.015
	Hor. FOV 1/3" (mm)	71	10	107	8.7	29	4.1	43	3.5	7.1	1	11	0.87
	Hor. FOV 1/2" (mm)	95	14	143	12	38	5.5	57	4.6	10	1.4	14	1.2
	Hor. FOV 2/3" (mm)	131	19	196	16	52	7.6	79	6.4	13	1.9	20	1.6
1.0X Camera Tube	NA	0.0047	0.016	0.0036	0.019	0.012	0.039	0.009	0.048	0.047	0.16	0.036	0.19
	Res (lp/mm)	14	47	11	58	35	116	27	144	142	465	108	576
	PMAG	0.17X	1.2X	0.11X	1.4X	0.42X	2.9X	0.28X	3.5X	1.7X	12X	1.1X	14X
	DOF (mm)	25	2.4	44	1.5	4.1	0.38	7	0.25	0.25	0.024	0.44	0.015
	Hor. FOV 1/3" (mm)	29	4.1	43	3.5	11	1.7	17	1.4	2.9	0.41	4.3	0.35
	Hor. FOV 1/2" (mm)	38	5.5	57	4.6	15	2.2	23	1.9	3.8	0.55	5.7	0.46
	Hor. FOV 2/3" (mm)	52	7.6	79	6.4	21	3.0	31	2.6	5.2	0.76	7.9	0.64
3.0X Mini Camera Tube	NA	0.0047	0.016	0.0036	0.019	0.012	0.039	0.009	0.048	0.047	0.16	0.036	0.19
	Res (lp/mm)	14	47	11	58	35	116	27	144	142	465	108	576
	PMAG	0.50X	3.5X	0.34X	4.1X	1.3X	8.7X	0.84X	10X	5.0X	35X	3.4X	41X
	DOF (mm)	25	2.4	44	1.5	4.1	0.38	7	0.25	0.25	0.024	0.44	0.015
	Hor. FOV 1" (mm)	25	3.7	38	3.1	10	1.5	15	1.2	2.5	0.37	3.8	0.31
	Hor. FOV 4/3" (mm)	36	5.2	54	4.3	14	2.1	21	1.7	3.6	0.52	5.4	0.43
	Hor. FOV 35mm (mm)	71	10	107	8.7	29	4.1	43	3.5	7.1	1	11	0.87

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