



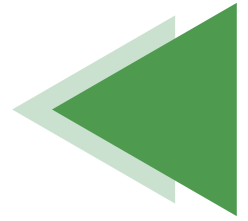
HIGH-PRECISION INDUSTRIAL LENSES SERIES



 www.carlbasson.com

1st Edition of Year 2023

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Multiple ULWD Lenses with Options between High Resolution and Deep DOF



COMPANY PROFILE

Basson focuses on machine vision products used for precision measurement and defect detection.

Basson not only provides high-precision bi-telecentric lens systems, telecentric lens systems, telecentric light sources, coaxial illuminations and optical lenses, but also offers customized services.

With products designed in Germany, business planned in the UK and products made in China, Basson is able to provide superior products to customers through its global team. Currently, Basson is in preparation of production and assembly of products in Japan.

Dr. Liu Lu, acting as CTO of Basson, is a PhD degree holder of Oxford University.

Production and testing instruments include optical vacuum coating machines manufactured by Satis in Switzerland and Leybold in Germany, a laser interferometer from Zygo in the US, a spectrophotometer from PerkinElmer in the US, a spherometer from Hofbauer Optik in Germany, a centering instrument from Kyoritsu Electric in Japan, a NC grinding device made by Kojima Engineering in Japan and an automatic centering machine made by Shonan in Japan.

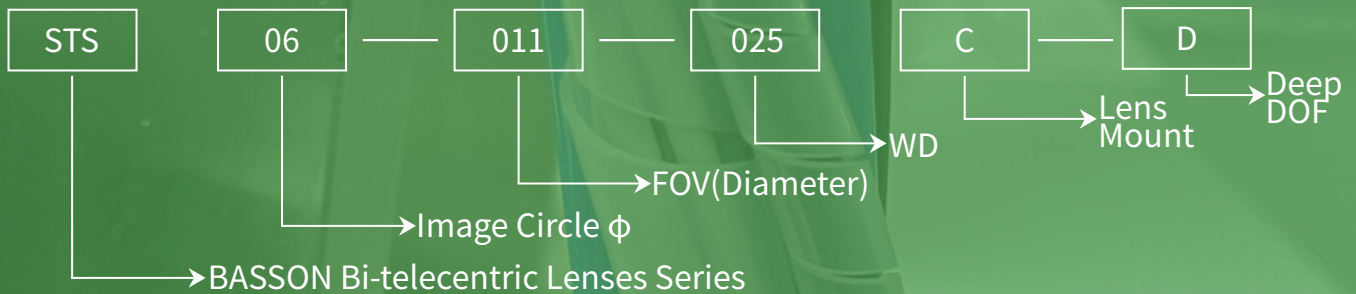
INDUSTRIAL LENS

- STS SERIES
- SUT SERIES

STS SERIES

Bi-telecentric Lenses with Large FOV and High Precision

MODEL DESCRIPTION OF LENS SERIES WITH DEEP DOF



FEATURES

- Designed in Germany
- CTO—Phd Degree Holder of Oxford University
- Available for Industrial Cameras with Sensor Size from 1/3" to 35Full
- Large FOV from 11.5mm-315mm
- Distortion: <0.05% Telecentricity: <0.05°
- IP 65 for Use in Harsh Industrial Environments
- Bi-telecentric design, very deep DOF, high resolution
- Multi-layer coating, high transmittance
- Options between high resolution and deep DOF are available, satisfying different technical requirements
- Customized aperture is available
- Working distance can be adjusted within certain limits as per customers' requirements

STS06



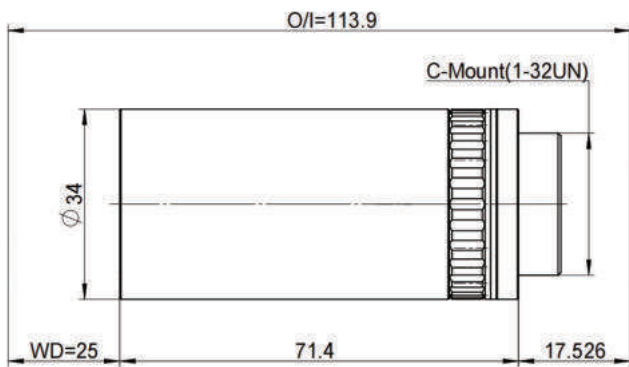
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1/3"			Lens Mount
								H	V	D	
								4.80	3.60	6.00	
STS06011025C	0.522	25±2	7.72	1.00	6	<0.05	<0.05	9.20	6.90	11.50	C
STS06025050C	0.240	50±1	16.78	6.70	6	<0.05	<0.05	20.00	15.00	25.00	C
STS06035060C	0.171	60±5	23.49	16.33	6	<0.05	<0.05	28.00	21.00	35.00	C
STS06045070C	0.133	70±5	30.20	20.00	6	<0.05	<0.05	36.00	27.00	45.00	C
STS06060080C	0.100	80±5	40.26	48.00	6	<0.05	<0.05	48.00	36.00	60.00	C
STS06070150C	0.086	150±5	46.97	30.00	6	<0.05	<0.05	56.00	42.00	70.00	C
STS06085150C	0.071	125±5	57.04	96.33	6	<0.05	<0.05	68.00	51.00	85.00	C
STS06105160C	0.057	160±5	70.46	147.00	6	<0.05	<0.05	84.00	63.00	105.00	C
STS06125200C	0.048	200±5	83.88	208.33	6	<0.05	<0.05	100.00	75.00	125.00	C
STS06155320C	0.039	320±5	104.01	320.33	6	<0.05	<0.05	124.00	93.00	155.00	C
STS06185320C	0.032	320±5	124.14	456.33	6	<0.05	<0.05	148.00	111.00	185.00	C
STS06215380C	0.028	380±5	144.27	616.33	6	<0.05	<0.05	172.00	129.00	215.00	C
STS06245380C	0.024	380±5	164.40	800.33	6	<0.05	<0.05	196.00	147.00	245.00	C
STS06270480C	0.022	480±5	181.17	972.00	6	<0.05	<0.05	216.00	162.00	270.00	C
STS06315545C	0.019	545±5	211.37	1323.00	6	<0.05	<0.05	252.00	189.00	315.00	C

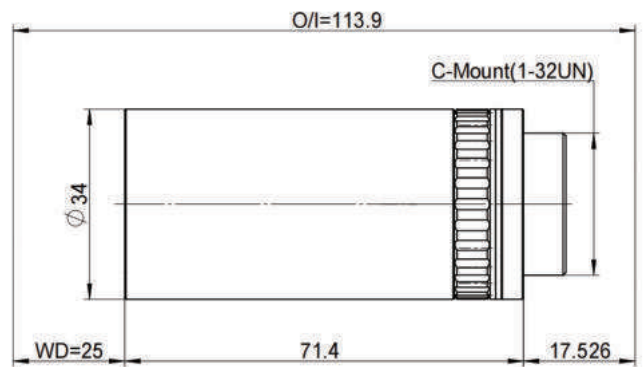
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1/3"			Lens Mount
								H	V	D	
STS06011025C-D	0.522	25 ± 2	20.58	4.70	16	<0.05	<0.05	9.20	6.90	11.50	C
STS06025050C-D	0.240	50 ± 1	44.73	11.00	16	<0.05	<0.05	20.00	15.00	25.00	C
STS06035060C-D	0.171	60 ± 5	62.63	43.56	16	<0.05	<0.05	28.00	21.00	35.00	C
STS06045070C-D	0.133	70 ± 5	80.52	72.00	16	<0.05	<0.05	36.00	27.00	45.00	C
STS06060080C-D	0.100	80 ± 5	107.36	128.00	16	<0.05	<0.05	48.00	36.00	60.00	C
STS06070150C-D	0.086	150 ± 5	125.25	110.00	16	<0.05	<0.05	56.00	42.00	70.00	C
STS06085150C-D	0.071	125 ± 5	152.09	256.89	16	<0.05	<0.05	68.00	51.00	85.00	C

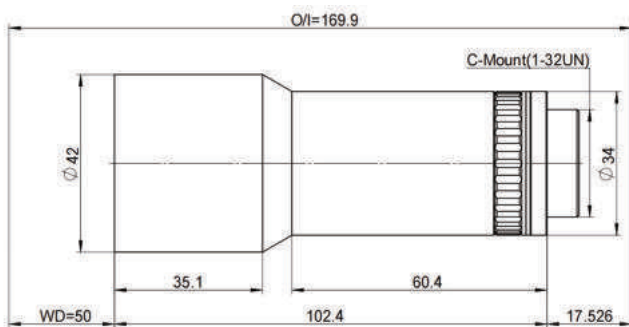
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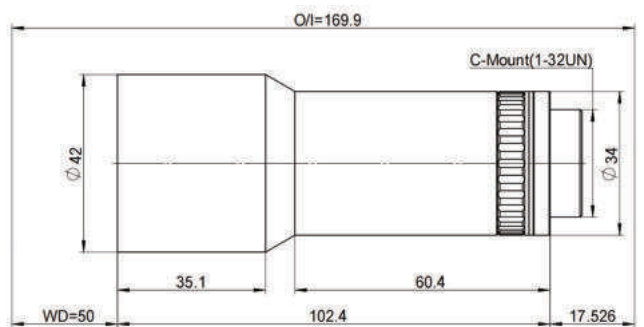
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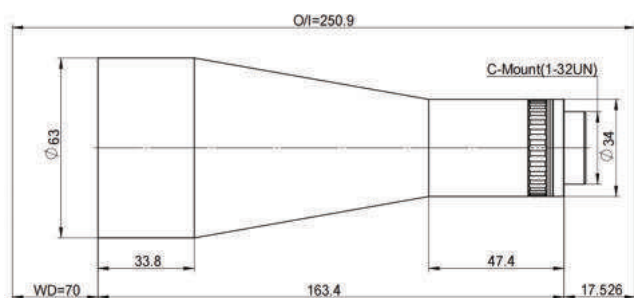
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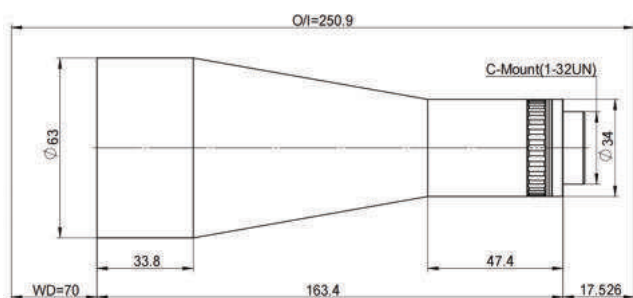
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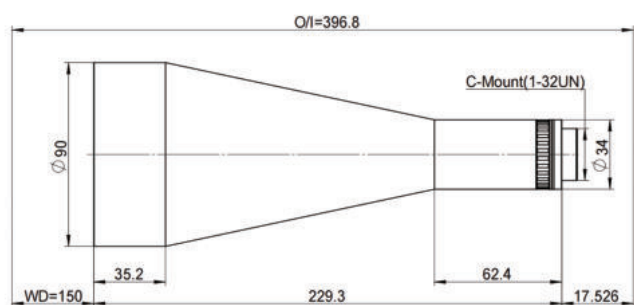
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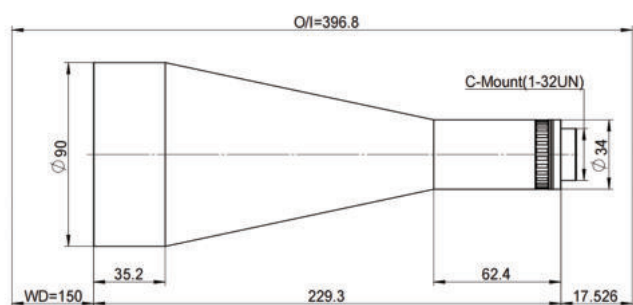
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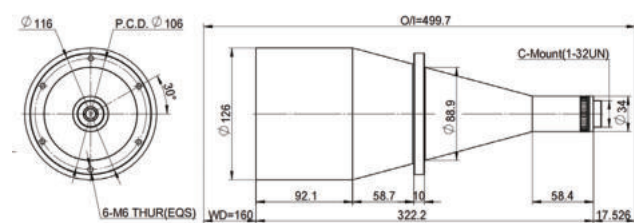
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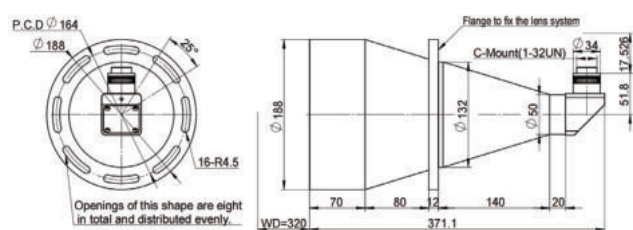
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STS06105160C



STS06155320C



STS08



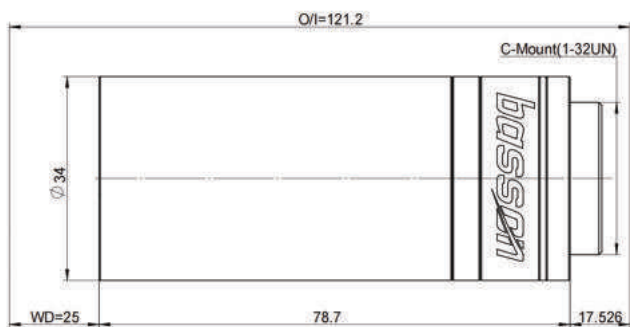
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1/2"			Lens Mount
								H	V	D	
								6.40	4.80	8.00	
STS08011025C	0.696	25±2	5.79	0.99	6	<0.05	<0.05	9.20	6.90	11.50	C
STS08025050C	0.320	50±1	12.58	4.69	6	<0.05	<0.05	20.00	15.00	25.00	C
STS08035060C	0.229	60±5	17.61	9.19	6	<0.05	<0.05	28.00	21.00	35.00	C
STS08045070C	0.178	70±5	22.65	15.19	6	<0.05	<0.05	36.00	27.00	45.00	C
STS08060080C	0.133	80±5	30.20	27.00	6	<0.05	<0.05	48.00	36.00	60.00	C
STS08070150C	0.114	150±5	35.23	36.75	6	<0.05	<0.05	56.00	42.00	70.00	C
STS08085150C	0.094	125±5	42.78	54.19	6	<0.05	<0.05	68.00	51.00	85.00	C
STS08105160C	0.076	160±5	52.84	82.69	6	<0.05	<0.05	84.00	63.00	105.00	C
STS08125200C	0.064	200±5	62.91	117.19	6	<0.05	<0.05	100.00	75.00	125.00	C
STS08155320C	0.052	320±5	78.00	180.19	6	<0.05	<0.05	124.00	93.00	155.00	C
STS08185320C	0.043	320±5	93.10	256.69	6	<0.05	<0.05	148.00	111.00	185.00	C
STS08215380C	0.037	380±5	108.20	346.69	6	<0.05	<0.05	172.00	129.00	215.00	C
STS08245380C	0.033	380±5	123.30	450.19	6	<0.05	<0.05	196.00	147.00	245.00	C
STS08270480C	0.030	480±5	135.88	546.75	6	<0.05	<0.05	216.00	162.00	270.00	C
STS08315545C	0.025	545±5	158.52	744.19	6	<0.05	<0.05	252.00	189.00	315.00	C

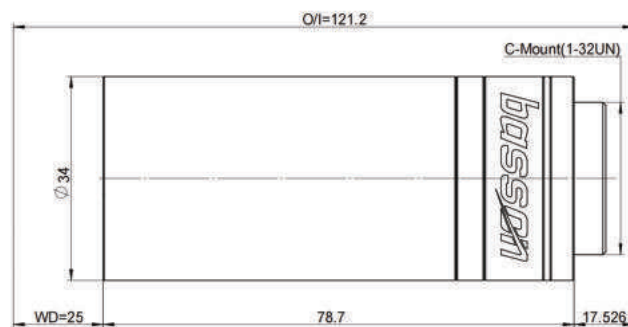
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1/2"			Lens Mount
								H	V	D	
								6.40	4.80	8.00	
STS08011025C-D	0.696	25 $\pm$ 2	15.43	2.65	16	<0.05	<0.05	9.20	6.90	11.50	C
STS08025050C-D	0.320	50 $\pm$ 1	33.55	12.50	16	<0.05	<0.05	20.00	15.00	25.00	C
STS08035060C-D	0.229	60 $\pm$ 5	46.97	24.50	16	<0.05	<0.05	28.00	21.00	35.00	C
STS08045070C-D	0.178	70 $\pm$ 5	60.39	40.50	16	<0.05	<0.05	36.00	27.00	45.00	C
STS08060080C-D	0.133	80 $\pm$ 5	80.52	72.00	16	<0.05	<0.05	48.00	36.00	60.00	C
STS08070150C-D	0.114	150 $\pm$ 5	93.94	98.00	16	<0.05	<0.05	56.00	42.00	70.00	C
STS08085150C-D	0.094	125 $\pm$ 5	114.07	144.50	16	<0.05	<0.05	68.00	51.00	85.00	C
STS08105160C-D	0.076	160 $\pm$ 5	140.91	220.50	16	<0.05	<0.05	84.00	63.00	105.00	C
STS08125200C-D	0.064	200 $\pm$ 5	167.75	312.50	16	<0.05	<0.05	100.00	75.00	125.00	C
STS08155320C-D	0.052	320 $\pm$ 5	208.01	480.50	16	<0.05	<0.05	124.00	93.00	155.00	C
STS08185320C-D	0.043	320 $\pm$ 5	248.27	684.50	16	<0.05	<0.05	148.00	111.00	185.00	C
STS08215380C-D	0.037	380 $\pm$ 5	288.53	924.50	16	<0.05	<0.05	172.00	129.00	215.00	C
STS08245380C-D	0.033	380 $\pm$ 5	328.79	1200.50	16	<0.05	<0.05	196.00	147.00	245.00	C
STS08270480C-D	0.030	480 $\pm$ 5	362.34	1458.00	16	<0.05	<0.05	216.00	162.00	270.00	C
STS08315545C-D	0.025	545 $\pm$ 5	422.73	1984.50	16	<0.05	<0.05	252.00	189.00	315.00	C

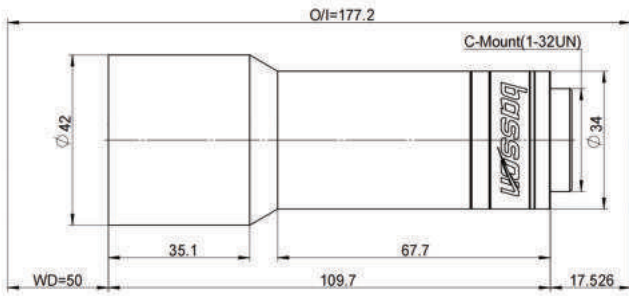
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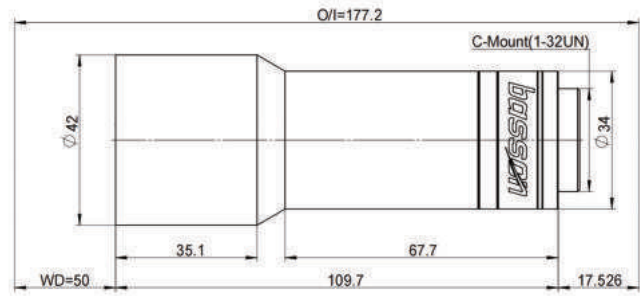
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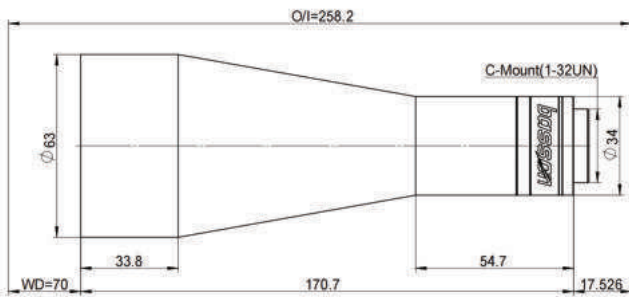
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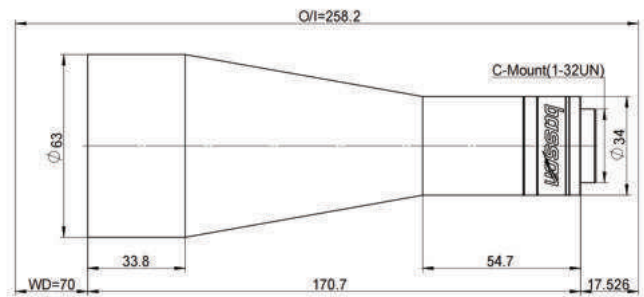
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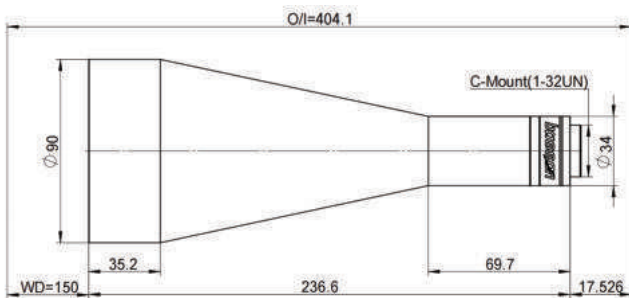
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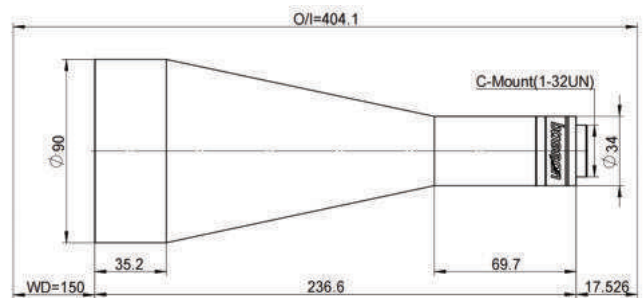
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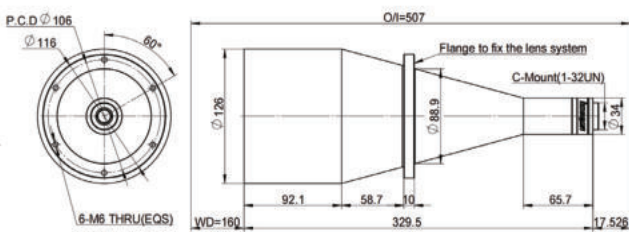
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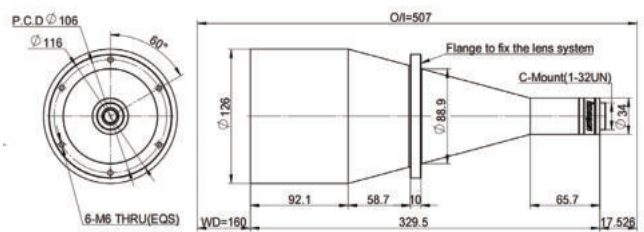
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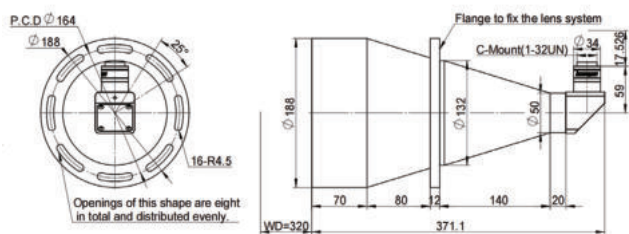
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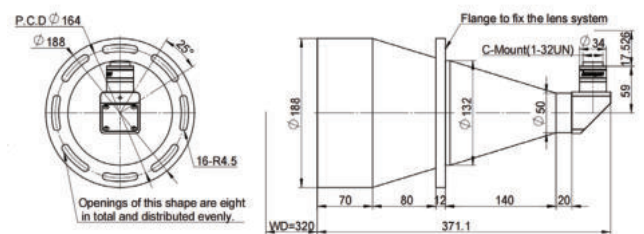
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STS08155320C



STS08155320C-D



STS9.5



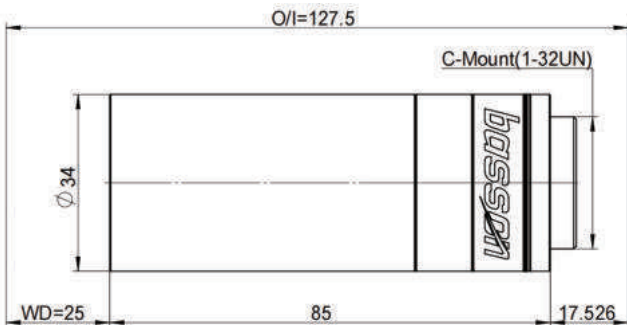
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1/1.7"			Lens Mount
								H	V	D	
								7.60	5.70	9.50	
STS09011025C	0.826	25±2	4.87	0.70	6	<0.05	<0.05	9.20	6.90	11.50	C
STS09025050C	0.380	50±1	10.59	3.32	6	<0.05	<0.05	20.00	15.00	25.00	C
STS09035060C	0.271	60±5	14.83	6.52	6	<0.05	<0.05	28.00	21.00	35.00	C
STS09045070C	0.211	70±5	19.07	10.77	6	<0.05	<0.05	36.00	27.00	45.00	C
STS09060080C	0.158	80±5	25.43	19.15	6	<0.05	<0.05	48.00	36.00	60.00	C
STS09070150C	0.136	150±5	29.67	26.06	6	<0.05	<0.05	56.00	42.00	70.00	C
STS09085150C	0.112	125±5	36.02	38.43	6	<0.05	<0.05	68.00	51.00	85.00	C
STS09105160C	0.090	160±5	44.50	58.64	6	<0.05	<0.05	84.00	63.00	105.00	C
STS09125200C	0.076	200±5	52.97	83.10	6	<0.05	<0.05	100.00	75.00	125.00	C
STS09155320C	0.061	320±5	65.69	127.78	6	<0.05	<0.05	124.00	93.00	155.00	C
STS09185320C	0.051	320±5	78.40	182.03	6	<0.05	<0.05	148.00	111.00	185.00	C
STS09215380C	0.044	380±5	91.11	245.85	6	<0.05	<0.05	172.00	129.00	215.00	C
STS09245380C	0.039	380±5	103.83	319.25	6	<0.05	<0.05	196.00	147.00	245.00	C
STS09270480C	0.035	480±5	114.42	387.72	6	<0.05	<0.05	216.00	162.00	270.00	C
STS09315545C	0.030	545±5	133.49	527.73	6	<0.05	<0.05	252.00	189.00	315.00	C

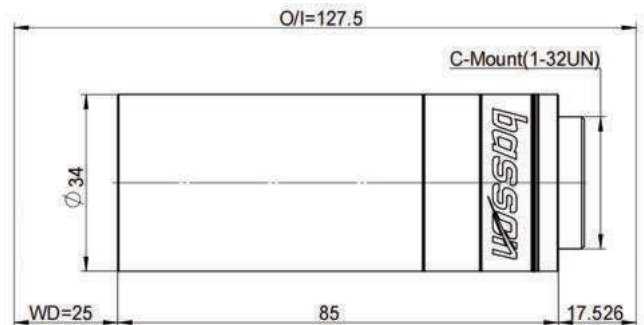
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1/1.7"			Lens Mount
								H	V	D	
								7.60	5.70	9.50	
STS09011025C-D	0.826	25 $\pm$ 2	13.00	1.88	16	<0.05	<0.05	9.20	6.90	11.50	C
STS09025050C-D	0.380	50 $\pm$ 1	28.25	8.86	16	<0.05	<0.05	20.00	15.00	25.00	C
STS09035060C-D	0.271	60 $\pm$ 5	39.55	17.37	16	<0.05	<0.05	28.00	21.00	35.00	C
STS09045070C-D	0.211	70 $\pm$ 5	50.85	28.72	16	<0.05	<0.05	36.00	27.00	45.00	C
STS09060080C-D	0.158	80 $\pm$ 5	67.81	51.06	16	<0.05	<0.05	48.00	36.00	60.00	C
STS09070150C-D	0.136	150 $\pm$ 5	79.11	69.50	16	<0.05	<0.05	56.00	42.00	70.00	C
STS09085150C-D	0.112	125 $\pm$ 5	96.06	102.47	16	<0.05	<0.05	68.00	51.00	85.00	C
STS09105160C-D	0.090	160 $\pm$ 5	118.66	156.37	16	<0.05	<0.05	84.00	63.00	105.00	C
STS09125200C-D	0.076	200 $\pm$ 5	141.26	221.61	16	<0.05	<0.05	100.00	75.00	125.00	C
STS09155320C-D	0.061	320 $\pm$ 5	175.17	340.74	16	<0.05	<0.05	124.00	93.00	155.00	C
STS09185320C-D	0.051	320 $\pm$ 5	209.07	485.41	16	<0.05	<0.05	148.00	111.00	185.00	C
STS09215380C-D	0.044	380 $\pm$ 5	242.97	655.60	16	<0.05	<0.05	172.00	129.00	215.00	C
STS09245380C-D	0.039	380 $\pm$ 5	276.88	851.32	16	<0.05	<0.05	196.00	147.00	245.00	C
STS09270480C-D	0.035	480 $\pm$ 5	305.13	1033.93	16	<0.05	<0.05	216.00	162.00	270.00	C
STS09315545C-D	0.030	545 $\pm$ 5	355.98	1407.29	16	<0.05	<0.05	252.00	189.00	315.00	C

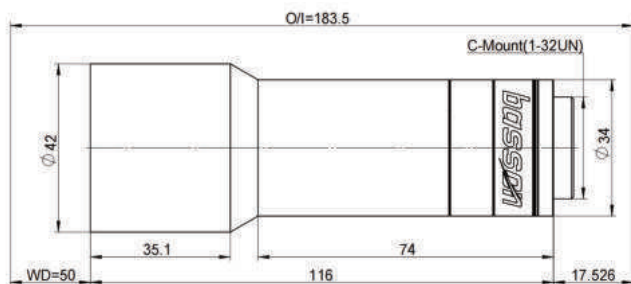
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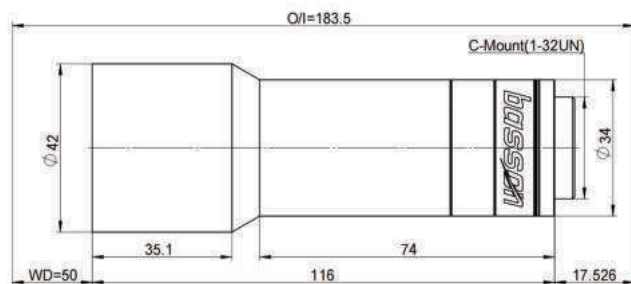
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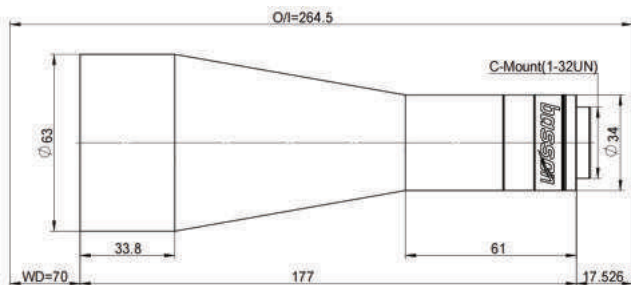
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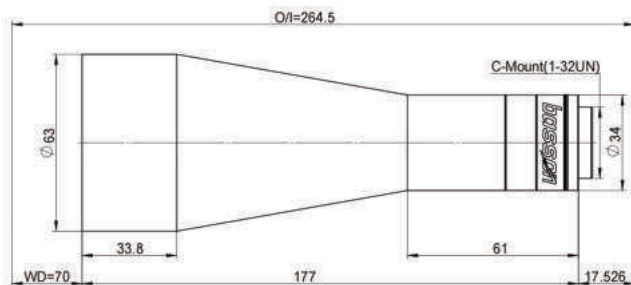
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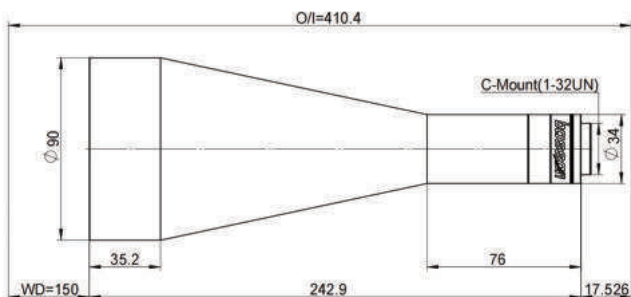
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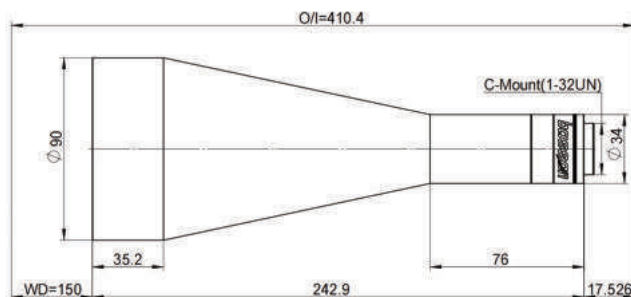
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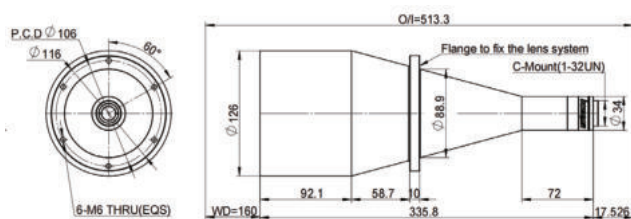
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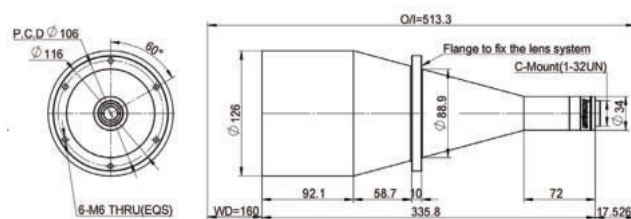
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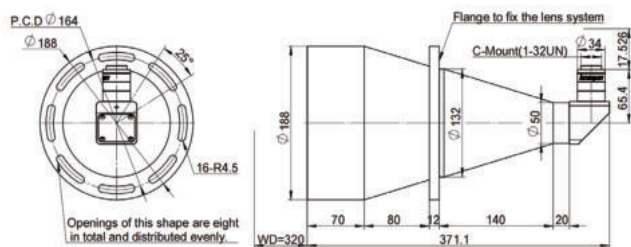
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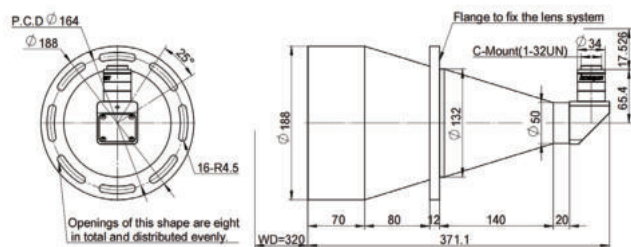
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STS09155320C



STS09155320C-D



STSII.5



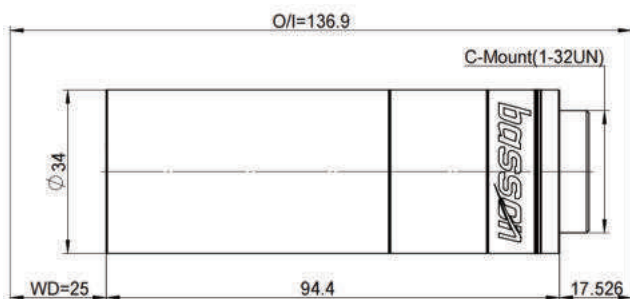
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
								8.45	7.07	11.00	8.83	7.39	11.50	
STS11011025C	1.000	25±2	4.70	0.56	7	<0.05	<0.05	8.45	7.07	11.00	8.83	7.39	11.50	C
STS11025050C	0.460	50±1	10.21	2.65	7	<0.05	<0.05	18.37	15.37	23.91	19.20	16.07	25.00	C
STS11025110C	0.460	110±1	10.21	2.65	7	<0.05	<0.05	18.37	15.37	23.91	19.20	16.07	25.00	C
STS11035060C	0.329	60±5	14.28	5.17	7	<0.05	<0.05	25.68	21.49	33.43	26.87	22.49	35.00	C
STS11035110C	0.329	110±5	14.28	5.17	7	<0.05	<0.05	25.68	21.49	33.43	26.87	22.49	35.00	C
STS11045070C	0.256	70±5	18.35	8.54	7	<0.05	<0.05	33.01	27.62	42.97	34.55	28.92	45.00	C
STS11045120C	0.256	120±5	18.35	8.54	7	<0.05	<0.05	33.01	27.62	42.97	34.55	28.92	45.00	C
STS11060080C	0.192	80±5	24.46	15.19	7	<0.05	<0.05	44.01	36.82	57.29	46.07	38.56	60.00	C
STS11060160C	0.192	160±5	24.46	15.19	7	<0.05	<0.05	44.01	36.82	57.29	46.07	38.56	60.00	C
STS11070150C	0.164	150±5	28.64	20.82	7	<0.05	<0.05	51.52	43.11	67.07	53.75	44.98	70.00	C
STS11070180C	0.164	180±5	28.64	20.82	7	<0.05	<0.05	51.52	43.11	67.07	53.75	44.98	70.00	C
STS11085150C	0.135	125±5	34.79	30.73	7	<0.05	<0.05	62.59	52.37	81.48	65.27	54.62	85.00	C
STS11105160C	0.110	160±5	42.70	46.28	7	<0.05	<0.05	76.82	64.27	100.00	80.62	67.47	105.00	C
STS11105260C	0.110	260±5	42.70	46.28	7	<0.05	<0.05	76.82	64.27	100.00	80.62	67.47	105.00	C
STS11105260CL	0.110	260±5	42.70	46.28	7	<0.05	<0.05	76.82	64.27	100.00	80.62	67.47	105.00	C
STS11125200C	0.092	200±5	51.05	66.16	7	<0.05	<0.05	91.85	76.85	119.57	95.98	80.33	125.00	C
STS11155320C	0.074	320±5	63.47	102.26	7	<0.05	<0.05	114.19	95.54	148.65	119.01	99.60	155.00	C
STS11185320C	0.062	320±5	75.56	144.92	7	<0.05	<0.05	135.93	113.73	176.96	142.05	118.88	185.00	C
STS11215380C	0.053	380±5	87.81	195.74	7	<0.05	<0.05	157.98	132.18	205.65	165.08	138.16	215.00	C
STS11245380C	0.047	380±5	100.07	254.17	7	<0.05	<0.05	180.02	150.62	234.35	188.12	157.44	245.00	C
STS11270480C	0.043	480±5	110.28	308.69	7	<0.05	<0.05	198.39	165.99	258.26	207.31	173.50	270.00	C
STS11315545C	0.037	545±5	126.95	409.06	7	<0.05	<0.05	228.38	191.08	297.30	241.87	202.42	315.00	C

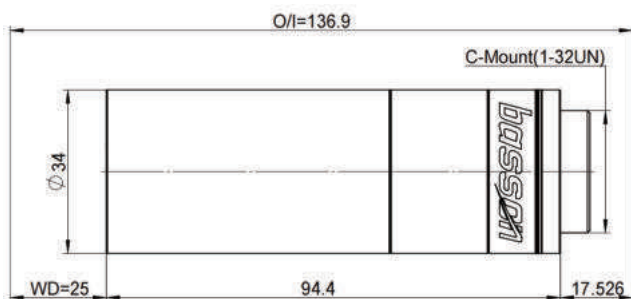
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
								8.45	7.07	11.00	8.83	7.39	11.50	
STS11011025C-D	1.000	25±2	10.74	1.28	16	<0.05	<0.05	8.45	7.07	11.00	8.83	7.39	11.50	C
STS11025050C-D	0.460	50±1	23.34	6.05	16	<0.05	<0.05	18.37	15.37	23.91	19.20	16.07	25.00	C
STS11025110C-D	0.460	110±1	23.34	6.05	16	<0.05	<0.05	18.37	15.37	23.91	19.20	16.07	25.00	C
STS11035060C-D	0.329	60±5	32.67	11.86	16	<0.05	<0.05	25.68	21.49	33.43	26.87	22.49	35.00	C
STS11035110C-D	0.329	110±5	32.67	11.86	16	<0.05	<0.05	25.68	21.49	33.43	26.87	22.49	35.00	C
STS11045070C-D	0.256	70±5	42.01	19.60	16	<0.05	<0.05	33.01	27.62	42.97	34.55	28.92	45.00	C
STS11045120C-D	0.256	120±5	42.01	19.60	16	<0.05	<0.05	33.01	27.62	42.97	34.55	28.92	45.00	C
STS11060080C-D	0.192	80±5	56.01	34.84	16	<0.05	<0.05	44.01	36.82	57.29	46.07	38.56	60.00	C
STS11060160C-D	0.192	160±5	56.01	34.84	16	<0.05	<0.05	44.01	36.82	57.29	46.07	38.56	60.00	C
STS11070150C-D	0.164	150±5	65.35	47.43	16	<0.05	<0.05	51.52	43.11	67.07	53.75	44.98	70.00	C
STS11070180C-D	0.164	180±5	65.35	47.43	16	<0.05	<0.05	51.52	43.11	67.07	53.75	44.98	70.00	C
STS11085150C-D	0.135	125±5	79.35	69.93	16	<0.05	<0.05	62.59	52.37	81.48	65.27	54.62	85.00	C
STS11105160C-D	0.110	160±5	98.02	106.71	16	<0.05	<0.05	76.82	64.27	100.00	80.62	67.47	105.00	C
STS11105260C-D	0.110	260±5	98.02	106.71	16	<0.05	<0.05	76.82	64.27	100.00	80.62	67.47	105.00	C
STS11105260CL-D	0.110	260±5	98.02	106.71	16	<0.05	<0.05	76.82	64.27	100.00	80.62	67.47	105.00	C
STS11125200C-D	0.092	200±5	116.70	151.23	16	<0.05	<0.05	91.85	76.85	119.57	95.98	80.33	125.00	C
STS11155320C-D	0.074	320±5	144.70	232.53	16	<0.05	<0.05	114.19	95.54	148.65	119.01	99.60	155.00	C
STS11185320C-D	0.062	320±5	172.71	331.25	16	<0.05	<0.05	135.93	113.73	176.96	142.05	118.88	185.00	C
STS11215380C-D	0.053	380±5	200.72	447.40	16	<0.05	<0.05	157.98	132.18	205.65	165.08	138.16	215.00	C
STS11245380C-D	0.047	380±5	228.72	580.96	16	<0.05	<0.05	180.02	150.62	234.35	188.12	157.44	245.00	C
STS11270480C-D	0.043	480±5	252.06	705.57	16	<0.05	<0.05	198.39	165.99	258.26	207.31	173.50	270.00	C
STS11315545C-D	0.037	545±5	290.16	934.99	16	<0.05	<0.05	228.38	191.08	297.30	241.87	202.42	315.00	C

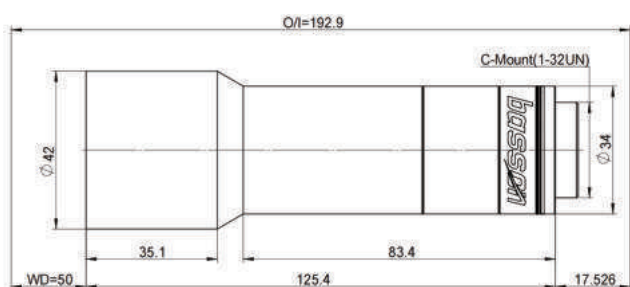
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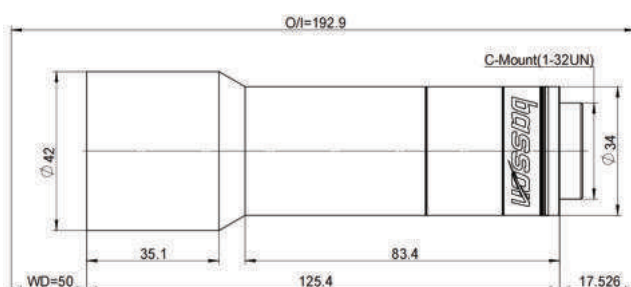
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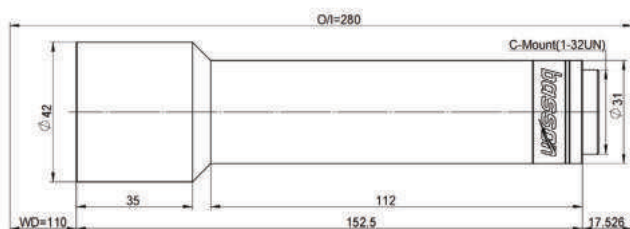
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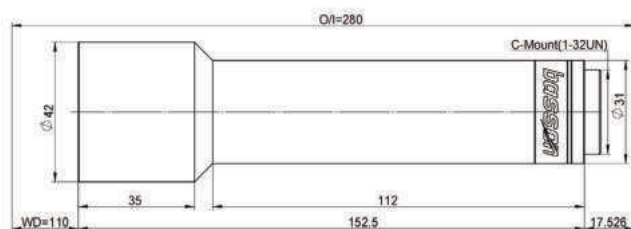
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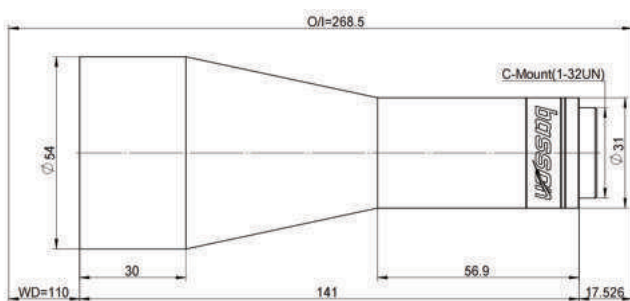
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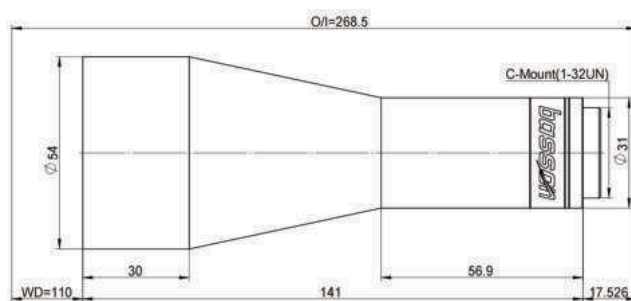
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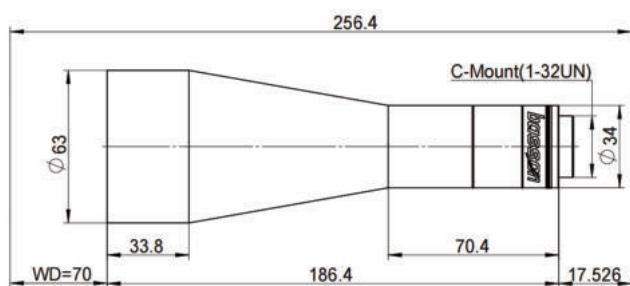
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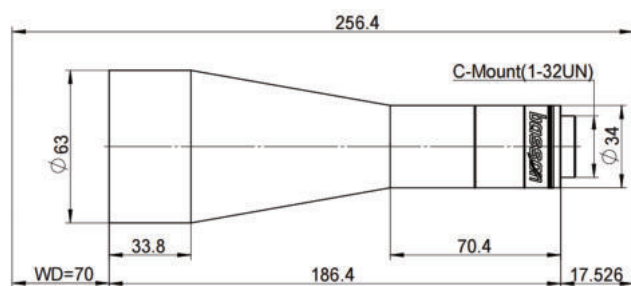
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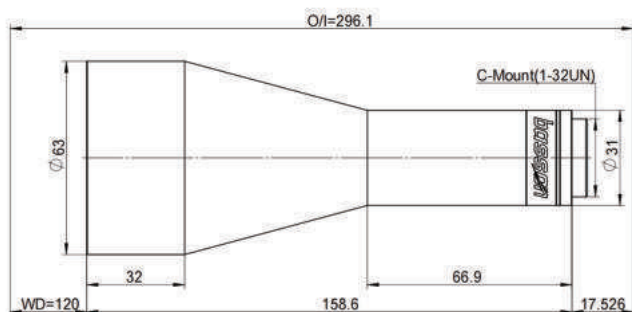
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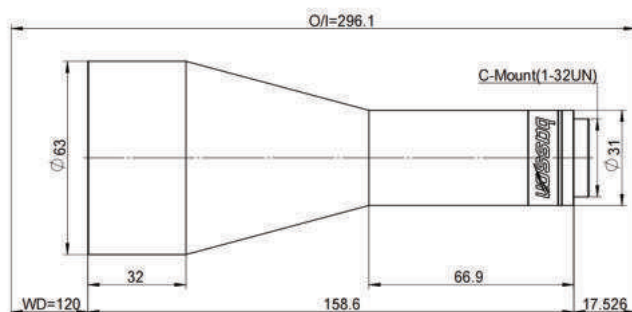
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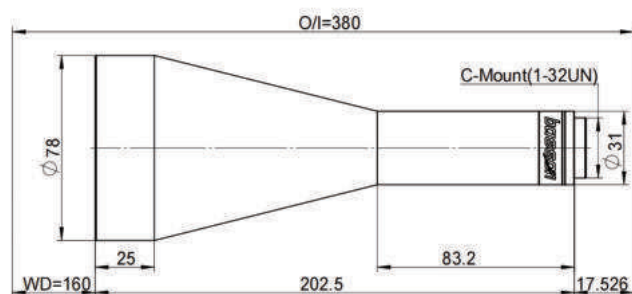
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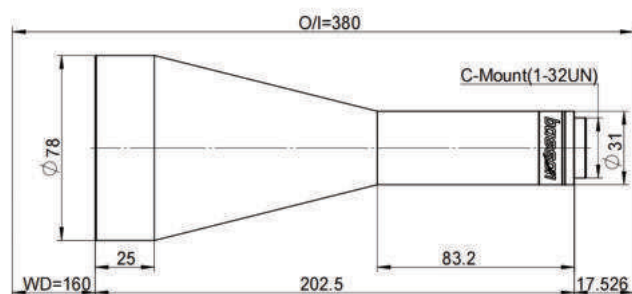
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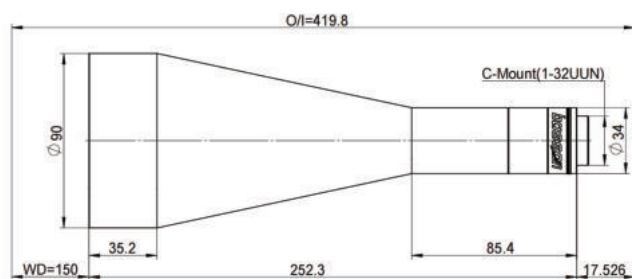
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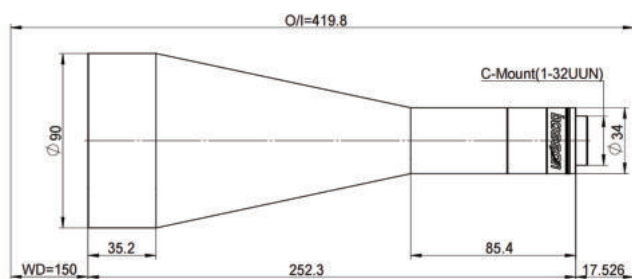
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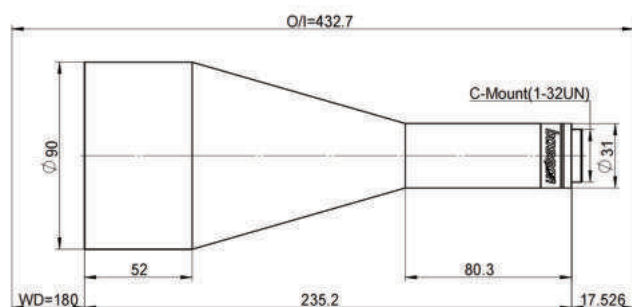
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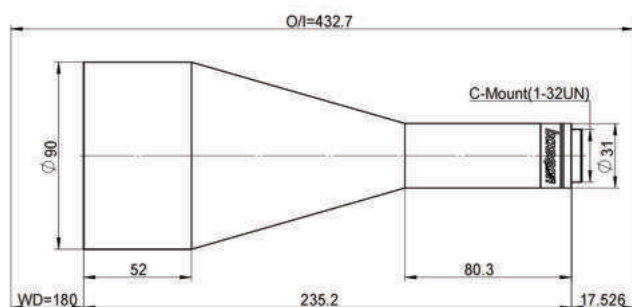
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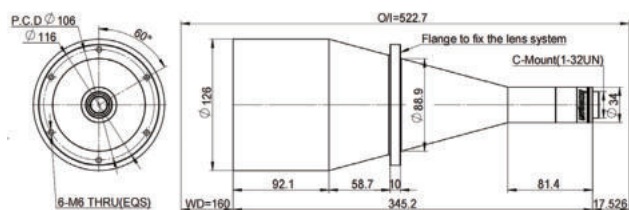
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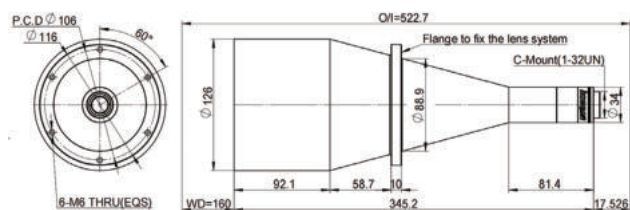
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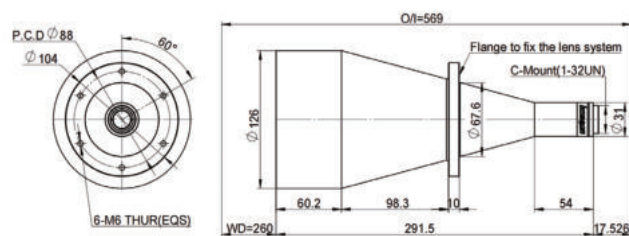
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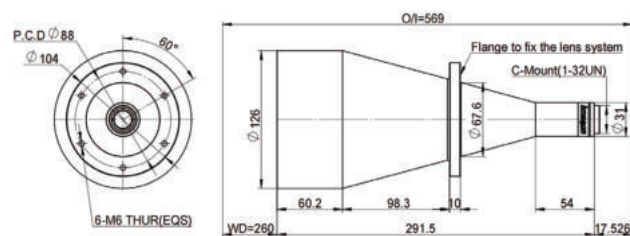
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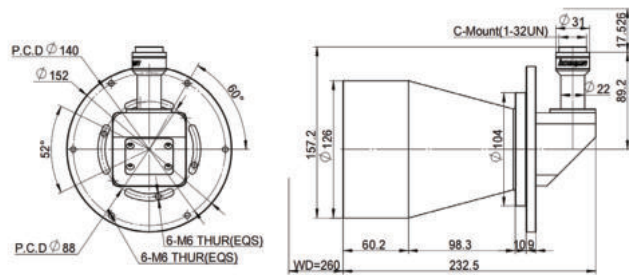
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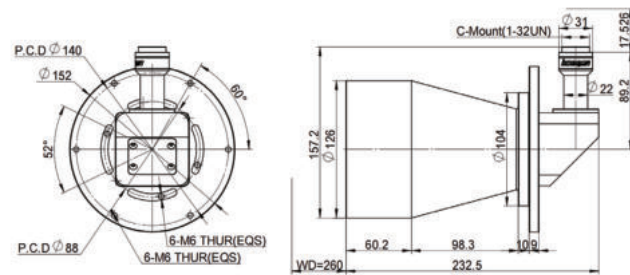
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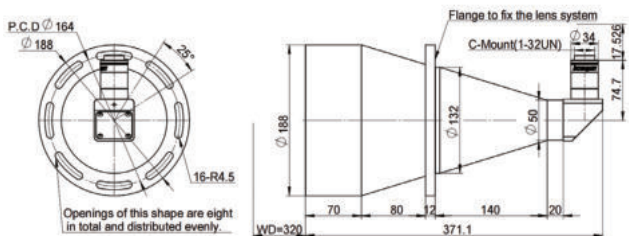
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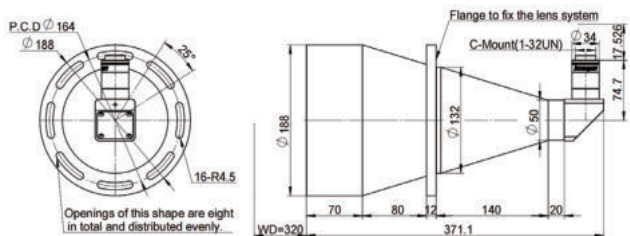
STS11105260CL-D



STS11155320C



STS11155320C-D



STS16



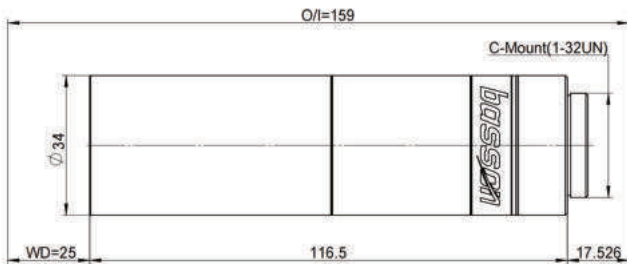
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1/1.2"			1"			Lens Mount
								H	V	D	H	V	D	
STS16011025C	1.391	25±2	2.89	0.25	6	<0.05	<0.05	8.16	5.12	9.63	9.20	6.90	11.50	C
STS16025050C	0.640	50±1	6.29	1.17	6	<0.05	<0.05	17.73	11.14	20.94	20.00	15.00	25.00	C
STS16035060C	0.457	60±5	8.81	2.30	6	<0.05	<0.05	24.83	15.60	29.31	28.00	21.00	35.00	C
STS16045070C	0.356	70±5	11.32	3.80	6	<0.05	<0.05	31.92	20.05	37.69	36.00	27.00	45.00	C
STS16060080C	0.267	80±5	15.10	6.75	6	<0.05	<0.05	42.56	26.74	50.25	48.00	36.00	60.00	C
STS16070150C	0.229	150±5	17.61	9.19	6	<0.05	<0.05	49.66	31.19	58.62	56.00	42.00	70.00	C
STS16085150C	0.188	125±5	21.39	13.55	6	<0.05	<0.05	60.30	37.88	71.19	68.00	51.00	85.00	C
STS16105160C	0.152	160±5	26.42	20.67	6	<0.05	<0.05	74.48	46.79	87.94	84.00	63.00	105.00	C
STS16125200C	0.128	200±5	31.45	29.30	6	<0.05	<0.05	88.67	55.70	104.69	100.00	75.00	125.00	C
STS16155320C	0.103	320±5	39.00	45.05	6	<0.05	<0.05	109.95	69.07	129.81	124.00	93.00	155.00	C
STS16185320C	0.086	320±5	46.55	64.17	6	<0.05	<0.05	131.23	82.44	154.94	148.00	111.00	185.00	C
STS16215380C	0.074	380±5	54.10	86.67	6	<0.05	<0.05	152.52	95.81	180.06	172.00	129.00	215.00	C
STS16245380C	0.065	380±5	61.65	112.55	6	<0.05	<0.05	173.80	109.18	205.19	196.00	147.00	245.00	C
STS16270480C	0.059	480±5	67.94	136.69	6	<0.05	<0.05	191.53	120.32	226.13	216.00	162.00	270.00	C
STS16315545C	0.051	545±5	79.26	186.05	6	<0.05	<0.05	223.45	140.37	263.81	252.00	189.00	315.00	C

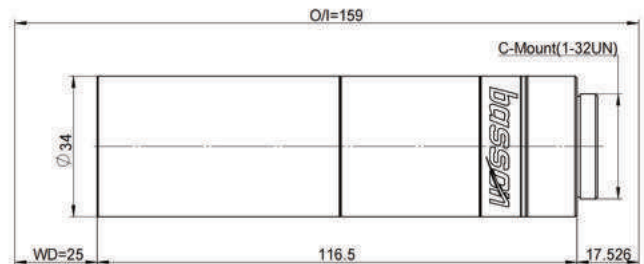
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1/1.2"			1"			Lens Mount
								H	V	D	H	V	D	
								11.35	7.13	13.40	12.80	9.60	16.00	
STS16011025C-D	1.391	25±2	7.72	0.66	16	<0.05	<0.05	8.16	5.12	9.63	9.20	6.90	11.50	C
STS16025050C-D	0.640	50±1	16.78	3.13	16	<0.05	<0.05	17.73	11.14	20.94	20.00	15.00	25.00	C
STS16035060C-D	0.457	60±5	23.49	6.13	16	<0.05	<0.05	24.83	15.60	29.31	28.00	21.00	35.00	C
STS16045070C-D	0.356	70±5	30.20	10.13	16	<0.05	<0.05	31.92	20.05	37.69	36.00	27.00	45.00	C
STS16060080C-D	0.267	80±5	40.26	18.00	16	<0.05	<0.05	42.56	26.74	50.25	48.00	36.00	60.00	C
STS16070150C-D	0.229	150±5	46.97	24.50	16	<0.05	<0.05	49.66	31.19	58.62	56.00	42.00	70.00	C
STS16085150C-D	0.188	125±5	57.04	36.13	16	<0.05	<0.05	60.30	37.88	71.19	68.00	51.00	85.00	C
STS16105160C-D	0.152	160±5	70.46	55.13	16	<0.05	<0.05	74.48	46.79	87.94	84.00	63.00	105.00	C
STS16125200C-D	0.128	200±5	83.88	78.13	16	<0.05	<0.05	88.67	55.70	104.69	100.00	75.00	125.00	C
STS16155320C-D	0.103	320±5	104.01	120.13	16	<0.05	<0.05	109.95	69.07	129.81	124.00	93.00	155.00	C
STS16185320C-D	0.086	320±5	124.14	171.13	16	<0.05	<0.05	131.23	82.44	154.94	148.00	111.00	185.00	C
STS16215380C-D	0.074	380±5	144.27	231.13	16	<0.05	<0.05	152.52	95.81	180.06	172.00	129.00	215.00	C
STS16245380C-D	0.065	380±5	164.40	300.13	16	<0.05	<0.05	173.80	109.18	205.19	196.00	147.00	245.00	C
STS16270480C-D	0.059	480±5	181.17	364.50	16	<0.05	<0.05	191.53	120.32	226.13	216.00	162.00	270.00	C
STS16315545C-D	0.051	545±5	211.37	496.13	16	<0.05	<0.05	223.45	140.37	263.81	252.00	189.00	315.00	C

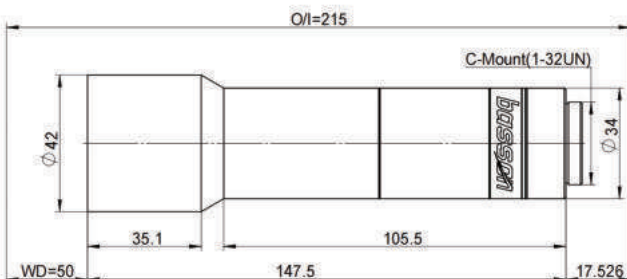
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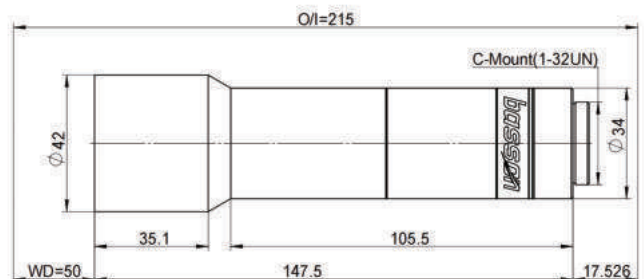
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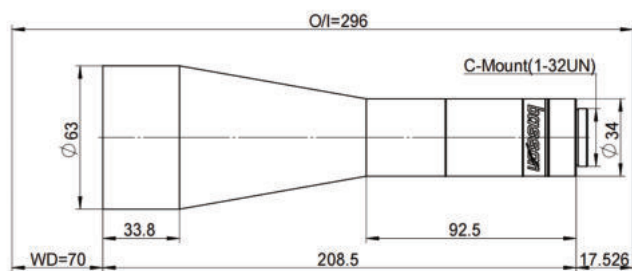
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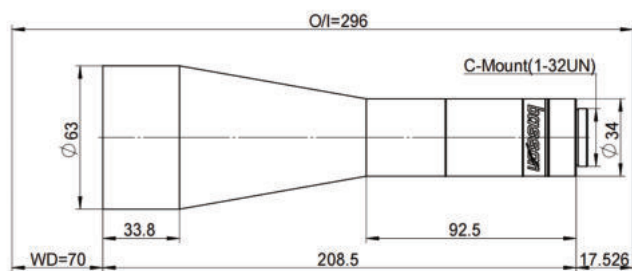
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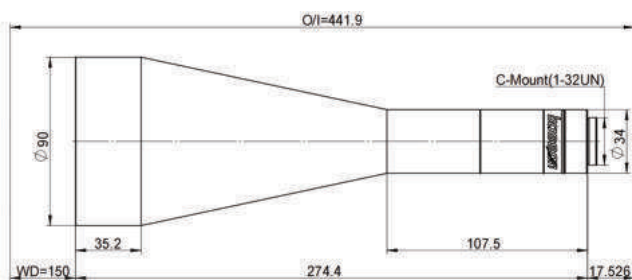
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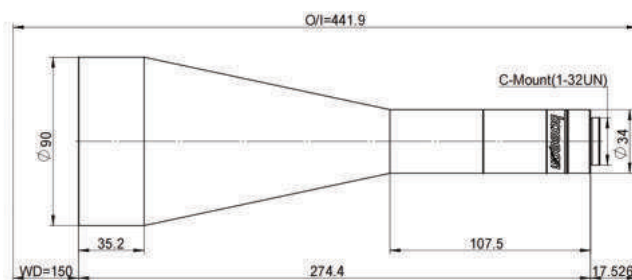
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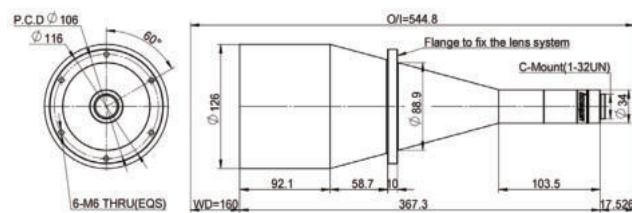
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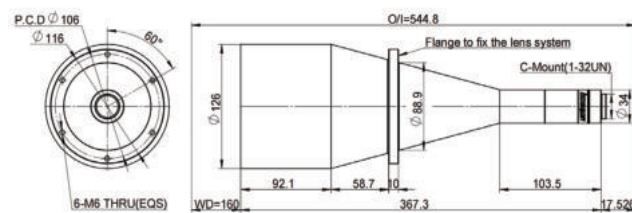
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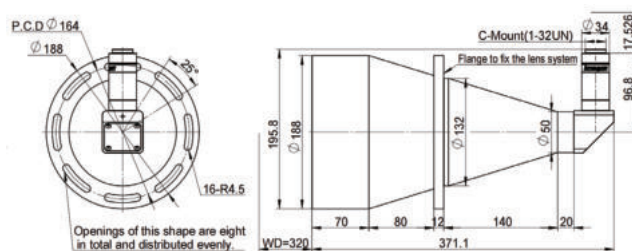
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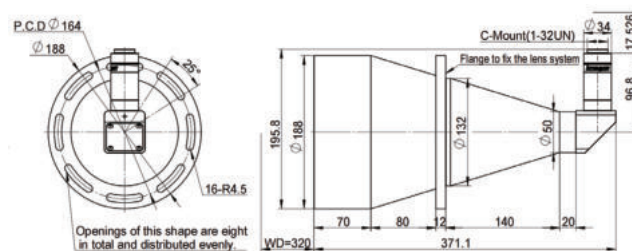
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STS16155320C



STS16155320C-D



STS18.5



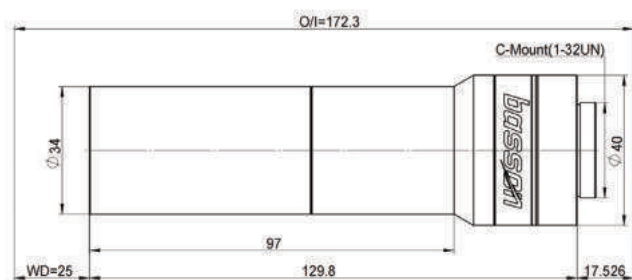
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
STS18011025C	1.609	25±2	2.92	0.22	7	<0.05	<0.05	14.16	10.37	17.60	14.80	11.10	18.50	C
STS18025050C	0.740	50±1	6.35	1.02	7	<0.05	<0.05	8.80	6.44	10.94	9.20	6.90	11.50	C
STS18035060C	0.529	60±5	8.88	2.00	7	<0.05	<0.05	19.14	14.01	23.78	20.00	15.00	25.00	C
STS18045070C	0.411	70±5	11.43	3.32	7	<0.05	<0.05	26.77	19.60	33.27	28.00	21.00	35.00	C
STS18060080C	0.308	80±5	15.25	5.90	7	<0.05	<0.05	34.45	25.23	42.82	36.00	27.00	45.00	C
STS18060160C	0.308	160±5	15.25	5.90	7	<0.05	<0.05	45.97	33.67	57.14	48.00	36.00	60.00	C
STS18070150C	0.264	150±5	17.79	8.03	7	<0.05	<0.05	45.97	33.67	57.14	48.00	36.00	60.00	C
STS18085150C	0.218	125±5	21.55	11.78	7	<0.05	<0.05	53.64	39.28	66.67	56.00	42.00	70.00	C
STS18085180C	0.218	180±5	18.50	10.13	6	<0.05	<0.05	64.95	47.57	80.73	68.00	51.00	85.00	C
STS18105160C	0.176	160±5	26.69	18.08	7	<0.05	<0.05	64.95	47.57	80.73	68.00	51.00	85.00	C
STS18105220C	0.176	220±5	26.69	18.08	7	<0.03	<0.03	80.45	58.92	100.00	84.00	63.00	105.00	C
STS18125200C	0.148	200±5	31.74	25.57	7	<0.05	<0.05	80.45	58.92	100.00	84.00	63.00	105.00	C
STS18155320C	0.119	320±5	39.47	39.55	7	<0.05	<0.05	95.68	70.07	118.92	100.00	75.00	125.00	C
STS18185320C	0.100	320±5	46.97	56.00	7	<0.05	<0.05	118.99	87.14	147.90	124.00	93.00	155.00	C
STS18215380C	0.086	380±5	54.59	75.63	7	<0.05	<0.05	141.60	103.70	176.00	148.00	111.00	185.00	C
STS18245380C	0.076	380±5	62.20	98.21	7	<0.05	<0.05	164.56	120.52	204.54	172.00	129.00	215.00	C
STS18270480C	0.069	480±5	68.55	119.28	7	<0.05	<0.05	187.52	137.33	233.08	196.00	147.00	245.00	C
STS18315545C	0.059	545±5	79.61	160.87	7	<0.05	<0.05	206.66	151.35	256.86	216.00	162.00	270.00	C
								240.00	175.76	298.31	252.00	189.00	315.00	C

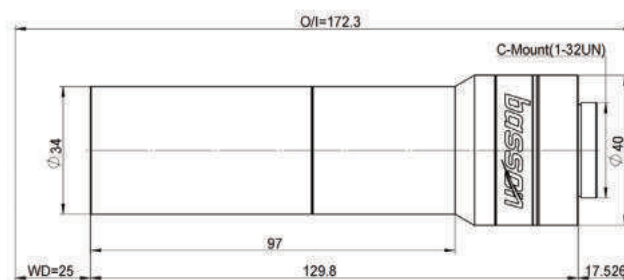
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
								14.16	10.37	17.60	14.80	11.10	18.50	
STS18011025C-D	1.609	25 $\pm$ 2	6.67	0.49	16	<0.05	<0.05	8.80	6.44	10.94	9.20	6.90	11.50	C
STS18025050C-D	0.740	50 $\pm$ 1	14.51	2.34	16	<0.05	<0.05	19.14	14.01	23.78	20.00	15.00	25.00	C
STS18035060C-D	0.529	60 $\pm$ 5	20.31	4.58	16	<0.05	<0.05	26.77	19.60	33.27	28.00	21.00	35.00	C
STS18045070C-D	0.411	70 $\pm$ 5	26.11	7.57	16	<0.05	<0.05	34.45	25.23	42.82	36.00	27.00	45.00	C
STS18060080C-D	0.308	80 $\pm$ 5	34.82	13.46	16	<0.05	<0.05	45.97	33.67	57.14	48.00	36.00	60.00	C
STS18060160C-D	0.308	160 $\pm$ 5	34.82	13.46	16	<0.05	<0.05	45.97	33.67	57.14	48.00	36.00	60.00	C
STS18070150C-D	0.264	150 $\pm$ 5	40.62	18.33	16	<0.05	<0.05	53.64	39.28	66.67	56.00	42.00	70.00	C
STS18085150C-D	0.218	125 $\pm$ 5	49.33	27.02	16	<0.05	<0.05	64.95	47.57	80.73	68.00	51.00	85.00	C
STS18085180C-D	0.218	180 $\pm$ 5	49.33	27.02	16	<0.05	<0.05	64.95	47.57	80.73	68.00	51.00	85.00	C
STS18105160C-D	0.176	160 $\pm$ 5	60.93	41.23	16	<0.05	<0.05	80.45	58.92	100.00	84.00	63.00	105.00	C
STS18105220C-D	0.176	220 $\pm$ 5	60.93	41.23	16	<0.03	<0.03	80.45	58.92	100.00	84.00	63.00	105.00	C
STS18125200C-D	0.148	200 $\pm$ 5	72.54	58.44	16	<0.05	<0.05	95.68	70.07	118.92	100.00	75.00	125.00	C
STS18155320C-D	0.119	320 $\pm$ 5	89.95	89.85	16	<0.05	<0.05	118.99	87.14	147.90	124.00	93.00	155.00	C
STS18185320C-D	0.100	320 $\pm$ 5	107.36	128.00	16	<0.05	<0.05	141.60	103.70	176.00	148.00	111.00	185.00	C
STS18215380C-D	0.086	380 $\pm$ 5	124.77	172.88	16	<0.05	<0.05	164.56	120.52	204.54	172.00	129.00	215.00	C
STS18245380C-D	0.076	380 $\pm$ 5	142.18	224.49	16	<0.05	<0.05	187.52	137.33	233.08	196.00	147.00	245.00	C
STS18270480C-D	0.069	480 $\pm$ 5	156.69	272.64	16	<0.05	<0.05	206.66	151.35	256.86	216.00	162.00	270.00	C
STS18315545C-D	0.059	545 $\pm$ 5	181.97	367.71	16	<0.05	<0.05	240.00	175.76	298.31	252.00	189.00	315.00	C

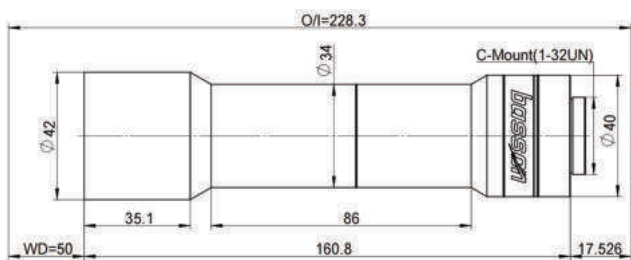
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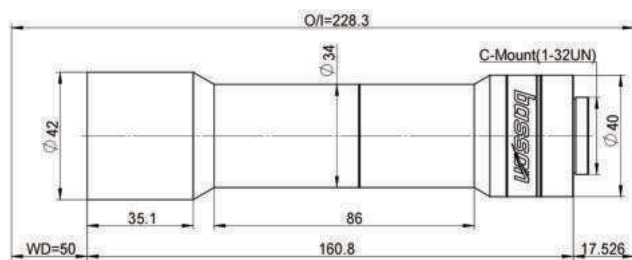
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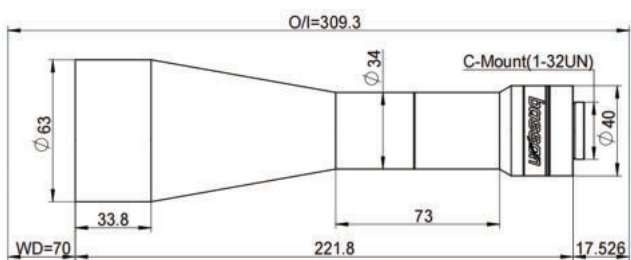
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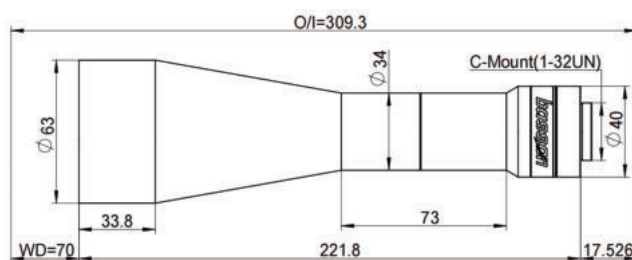
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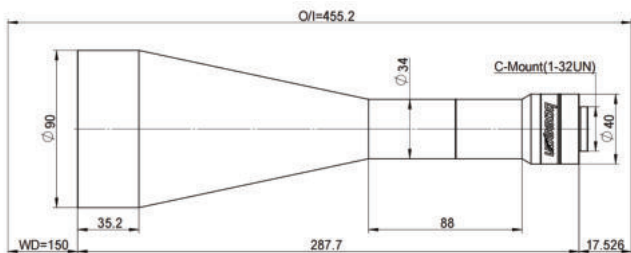
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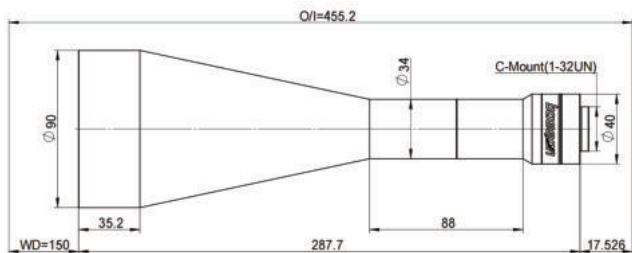
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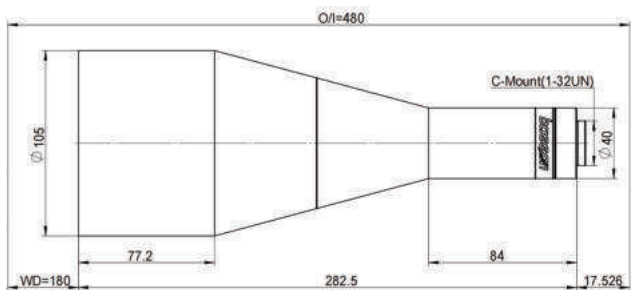
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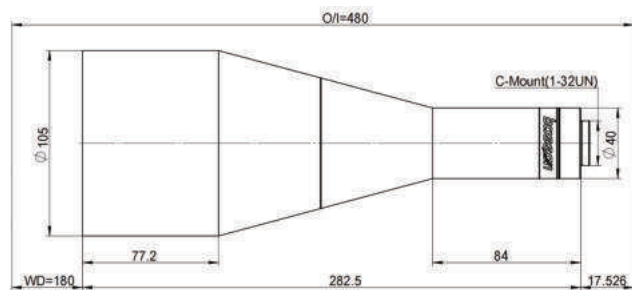
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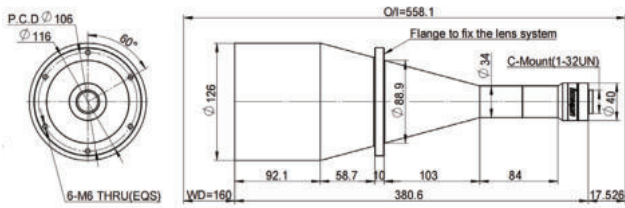
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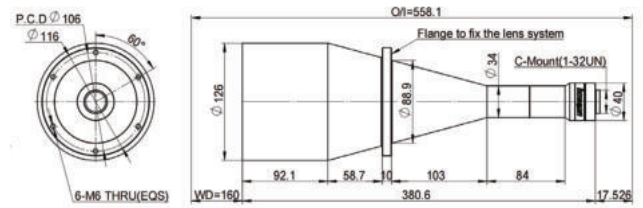
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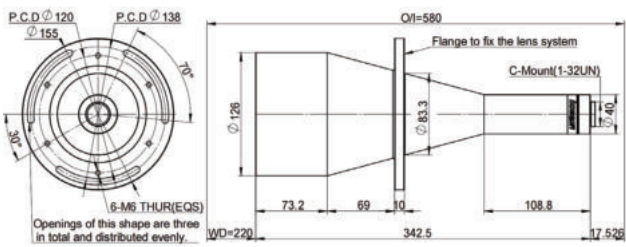
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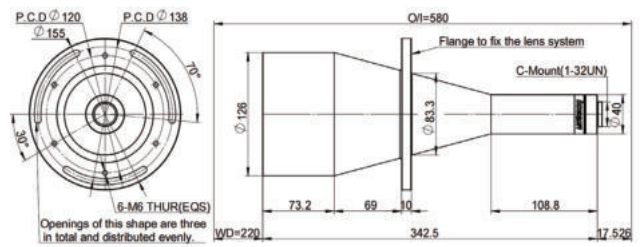
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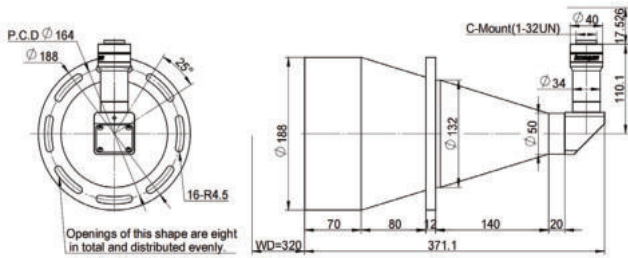
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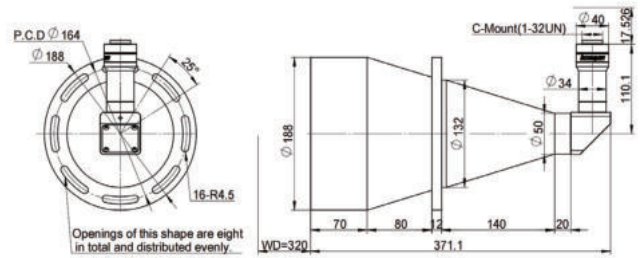
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STS18155320C



STS18155320C-D



STS23



SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	4/3"			23mm			Lens Mount
								H	V	D	H	V	D	
								18.93	10.61	22.00	18.40	13.80	23.00	
STS23025050F	0.920	50±5	5.47	0.71	7.5	<0.05	<0.05	20.58	11.53	23.91	20.00	15.00	25.00	F
STS23035060F	0.657	60±5	7.66	1.39	7.5	<0.05	<0.05	28.81	16.15	33.49	28.00	21.00	35.00	F
STS23045070F	0.511	70±5	9.85	2.30	7.5	<0.05	<0.05	37.05	20.76	43.05	36.00	27.00	45.00	F
STS23060080F	0.383	80±5	13.14	4.09	7.5	<0.05	<0.05	49.43	27.70	57.44	48.00	36.00	60.00	F
STS23070150F	0.329	150±5	15.30	5.54	7.5	<0.05	<0.05	57.54	32.25	66.87	56.00	42.00	70.00	F
STS23085150F	0.271	125±5	18.57	8.17	7.5	<0.05	<0.05	69.85	39.15	81.18	68.00	51.00	85.00	F
STS23105160F	0.219	160±5	22.98	12.51	7.5	<0.05	<0.05	86.44	48.45	100.46	84.00	63.00	105.00	F
STS23125200F	0.184	200±5	27.35	17.72	7.5	<0.05	<0.05	102.88	57.66	119.57	100.00	75.00	125.00	F
STS23155320F	0.148	320±5	34.00	27.39	7.5	<0.05	<0.05	127.91	71.69	148.65	124.00	93.00	155.00	F
STS23185320F	0.124	320±5	40.48	38.82	7.5	<0.05	<0.05	152.26	85.34	179.96	148.00	111.00	185.00	F
STS23215380F	0.107	380±5	47.04	52.43	7.5	<0.05	<0.05	176.95	99.18	205.65	172.00	129.00	215.00	F
STS23245380F	0.094	380±5	53.61	68.08	7.5	<0.05	<0.05	201.65	113.02	234.35	196.00	147.00	245.00	F
STS23270480F	0.085	480±5	59.08	82.68	7.5	<0.05	<0.05	222.22	124.55	258.26	216.00	162.00	270.00	F
STS23315545F	0.073	545±5	68.94	112.59	7.5	<0.05	<0.05	259.32	145.34	301.37	252.00	189.00	315.00	F

SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	4/3"			23mm			Lens Mount
								H	V	D	H	V	D	
								18.93	10.61	22.00	18.40	13.80	23.00	
STS23025050F-D	0.920	50 $\pm$ 5	11.67	1.51	16	<0.05	<0.05	20.58	11.53	23.91	20.00	15.00	25.00	F
STS23035060F-D	0.657	60 $\pm$ 5	16.34	2.96	16	<0.05	<0.05	28.81	16.15	33.49	28.00	21.00	35.00	F
STS23045070F-D	0.511	70 $\pm$ 5	21.01	4.90	16	<0.05	<0.05	37.05	20.76	43.05	36.00	27.00	45.00	F
STS23060080F-D	0.383	80 $\pm$ 5	28.01	8.71	16	<0.05	<0.05	49.43	27.70	57.44	48.00	36.00	60.00	F
STS23070150F-D	0.329	150 $\pm$ 5	32.67	11.86	16	<0.05	<0.05	57.54	32.25	66.87	56.00	42.00	70.00	F
STS23085150F-D	0.271	125 $\pm$ 5	39.68	17.48	16	<0.05	<0.05	69.85	39.15	81.18	68.00	51.00	85.00	F
STS23105160F-D	0.219	160 $\pm$ 5	49.01	26.68	16	<0.05	<0.05	86.44	48.45	100.46	84.00	63.00	105.00	F
STS23125200F-D	0.184	200 $\pm$ 5	58.35	37.81	16	<0.05	<0.05	102.88	57.66	119.57	100.00	75.00	125.00	F
STS23155320F-D	0.148	320 $\pm$ 5	72.35	58.13	16	<0.05	<0.05	127.91	71.69	148.65	124.00	93.00	155.00	F
STS23185320F-D	0.124	320 $\pm$ 5	86.35	82.81	16	<0.05	<0.05	152.26	85.34	176.96	148.00	111.00	185.00	F
STS23215380F-D	0.107	380 $\pm$ 5	100.36	111.85	16	<0.05	<0.05	176.95	99.18	205.65	172.00	129.00	215.00	F
STS23245380F-D	0.094	380 $\pm$ 5	114.36	145.24	16	<0.05	<0.05	201.65	113.02	234.35	196.00	147.00	245.00	F
STS23270480F-D	0.085	480 $\pm$ 5	126.03	176.39	16	<0.05	<0.05	222.22	124.55	258.26	216.00	162.00	270.00	F
STS23315545F-D	0.073	545 $\pm$ 5	147.04	240.09	16	<0.05	<0.05	259.32	145.34	301.37	252.00	189.00	315.00	F

STS28.5

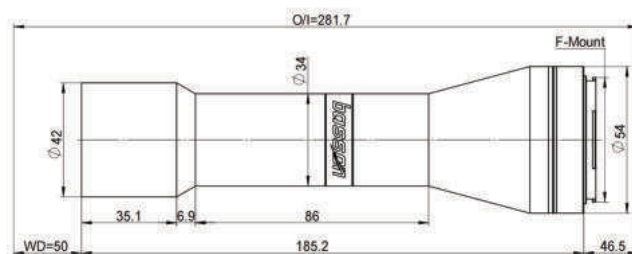
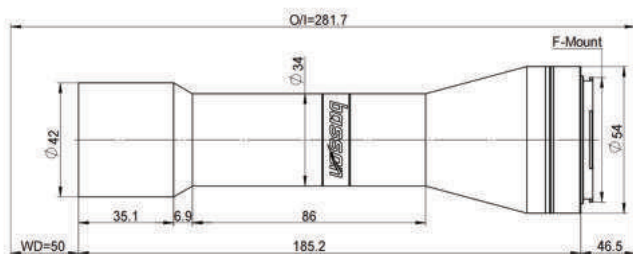


SPECIFICATIONS

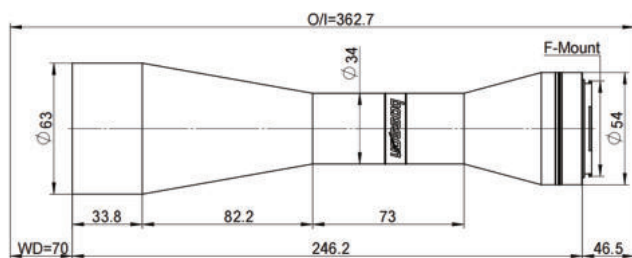
Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	APS-C			28.5mm			Lens Mount
								H	V	D	H	V	D	
STS28025050F	1.140	50±1	5.30	0.55	9	<0.05	<0.05	22.36	16.77	27.95	22.80	17.10	28.50	F
STS28035060F	0.814	60±5	7.42	1.09	9	<0.05	<0.05	19.61	14.71	24.52	20.00	15.00	25.00	F
STS28045070F	0.633	70±5	9.54	1.80	9	<0.05	<0.05	27.46	20.59	34.32	28.00	21.00	35.00	F
STS28060080F	0.475	80±5	12.71	3.19	9	<0.05	<0.05	35.31	26.48	44.13	36.00	27.00	45.00	F
STS28070150F	0.407	150±5	14.83	4.34	9	<0.05	<0.05	47.07	35.31	58.84	48.00	36.00	60.00	F
STS28085150F	0.335	125±5	18.01	6.40	9	<0.05	<0.05	54.92	41.19	68.65	56.00	42.00	70.00	F
STS28105160F	0.271	160±5	22.25	9.77	9	<0.05	<0.05	66.69	50.02	83.36	68.00	51.00	85.00	F
STS28125200F	0.228	200±5	26.49	13.85	9	<0.05	<0.05	82.38	61.78	102.97	84.00	63.00	105.00	F
STS28155320F	0.184	320±5	32.84	21.30	9	<0.05	<0.05	98.07	73.55	122.59	100.00	75.00	125.00	F
STS28185320F	0.154	320±5	39.20	30.34	9	<0.05	<0.05	121.61	91.21	152.01	124.00	93.00	155.00	F
STS28215380F	0.133	380±5	45.56	40.98	9	<0.05	<0.05	145.14	108.86	181.43	148.00	111.00	185.00	F
STS28245380F	0.116	380±5	51.91	53.21	9	<0.05	<0.05	168.68	126.51	210.85	172.00	129.00	215.00	F
STS28270480F	0.104	480±5	58.27	67.04	9	<0.05	<0.05	192.22	144.16	240.27	196.00	147.00	245.00	F
STS28315545F	0.090	545±5	66.75	87.96	9	<0.05	<0.05	215.75	161.82	269.69	220.00	165.00	275.00	F
STS28315545F	0.090	545±5	66.75	87.96	9	<0.05	<0.05	247.14	185.35	308.92	252.00	189.00	315.00	F

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	APS-C			28.5mm			Lens Mount
								H	V	D	H	V	D	
								22.36	16.77	27.95	22.80	17.10	28.50	
STS28025050F-D	1.140	50±1	9.42	0.98	16	<0.05	<0.05	19.61	14.71	24.52	20.00	15.00	25.00	F
STS28035060F-D	0.814	60±5	13.18	1.93	16	<0.05	<0.05	27.46	20.59	34.32	28.00	21.00	35.00	F
STS28045070F-D	0.633	70±5	16.95	3.19	16	<0.05	<0.05	35.31	26.48	44.13	36.00	27.00	45.00	F
STS28060080F-D	0.475	80±5	22.60	5.67	16	<0.05	<0.05	47.07	35.31	58.84	48.00	36.00	60.00	F
STS28070150F-D	0.407	150±5	26.37	7.72	16	<0.05	<0.05	54.92	41.19	68.65	56.00	42.00	70.00	F
STS28085150F-D	0.335	125±5	32.02	11.39	16	<0.05	<0.05	66.69	50.02	83.36	68.00	51.00	85.00	F
STS28105160F-D	0.271	160±5	39.55	17.37	16	<0.05	<0.05	82.38	61.78	102.97	84.00	63.00	105.00	F
STS28125200F-D	0.228	200±5	47.09	24.62	16	<0.05	<0.05	98.07	73.55	122.59	100.00	75.00	125.00	F
STS28155320F-D	0.184	320±5	58.39	37.86	16	<0.05	<0.05	121.61	91.21	152.01	124.00	93.00	155.00	F
STS28185320F-D	0.154	320±5	69.69	53.93	16	<0.05	<0.05	145.14	108.86	181.43	148.00	111.00	185.00	F
STS28215380F-D	0.133	380±5	80.99	72.84	16	<0.05	<0.05	168.68	126.51	210.85	172.00	129.00	215.00	F
STS28245380F-D	0.116	380±5	92.29	94.59	16	<0.05	<0.05	192.22	144.16	240.27	196.00	147.00	245.00	F
STS28270480F-D	0.104	480±5	101.71	114.88	16	<0.05	<0.05	215.75	161.82	269.69	220.00	165.00	275.00	F
STS28315545F-D	0.090	545±5	118.66	156.37	16	<0.05	<0.05	247.14	185.35	308.92	252.00	189.00	315.00	F

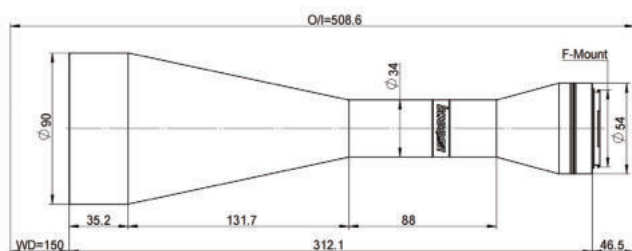
STS28025050F-D



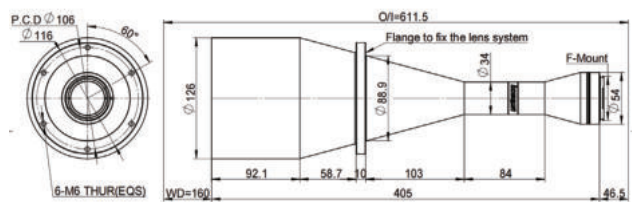
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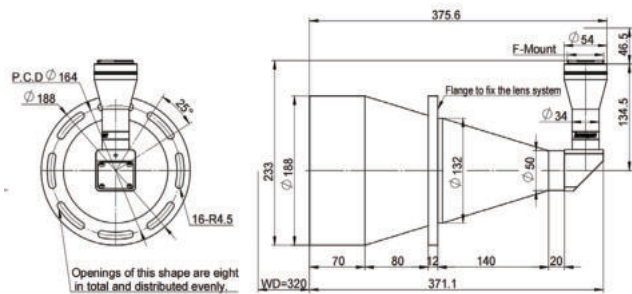
STS28070150F-D



STS28105160F-D



STS28155320F-D



STS39.2



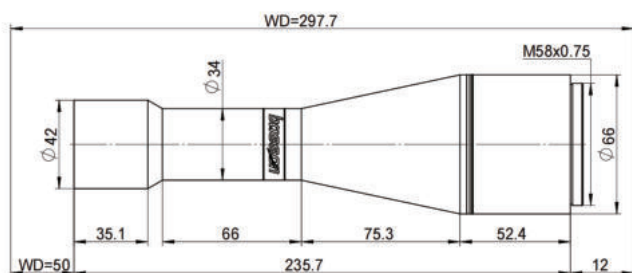
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	32.6mm			39.2mm			Lens Mount
								H	V	D	H	V	D	
								23.04	23.04	32.58	31.00	24.10	39.20	
STS39025050F/M58	1.568	50±5	5.14	0.39	12	<0.05	<0.05	14.69	14.69	20.78	19.77	15.37	25.00	F/M58
STS39035060F/M58	1.120	60±5	7.19	0.77	12	<0.05	<0.05	20.57	20.57	29.09	27.68	21.52	35.00	F/M58
STS39045070F/M58	0.871	70±5	9.24	1.27	12	<0.05	<0.05	26.45	26.45	37.41	35.59	27.67	45.00	F/M58
STS39060080F/M58	0.653	80±5	12.33	2.25	12	<0.05	<0.05	35.28	35.28	49.89	47.45	36.89	60.00	F/M58
STS39070150F/M58	0.560	150±5	14.38	3.06	12	<0.05	<0.05	41.14	41.14	58.18	55.36	43.04	70.00	F/M58
STS39085150F/M58	0.461	125±5	17.47	4.52	12	<0.05	<0.05	49.98	49.98	70.67	67.22	52.26	85.00	F/M58
STS39105160F/M58	0.373	160±5	21.59	6.90	12	<0.05	<0.05	61.77	61.77	87.35	83.04	64.55	105.00	F/M58
STS39125200F/M58	0.314	200±5	25.64	9.74	12	<0.05	<0.05	73.38	73.38	103.76	98.85	76.85	125.00	F/M58
STS39155320F/M58	0.253	320±5	31.83	15.00	12	<0.05	<0.05	91.07	91.07	128.77	122.58	95.29	155.00	F/M58
STS39185320F/M58	0.212	320±5	38.00	21.38	12	<0.05	<0.05	108.73	108.73	153.76	146.30	113.74	185.00	F/M58
STS39215380F/M58	0.182	380±5	44.16	28.88	12	<0.05	<0.05	126.37	126.37	178.69	170.03	132.18	215.00	F/M58
STS39245380F/M58	0.160	380±5	50.33	37.50	12	<0.05	<0.05	144.00	144.00	203.63	193.75	150.63	245.00	F/M58
STS39270480F/M58	0.145	480±5	55.46	45.54	12	<0.05	<0.05	158.69	158.69	224.40	213.52	165.99	270.00	F/M58
STS39315545F/M58	0.124	545±5	64.94	62.43	12	<0.05	<0.05	185.81	185.81	262.74	249.11	193.66	315.00	F/M58

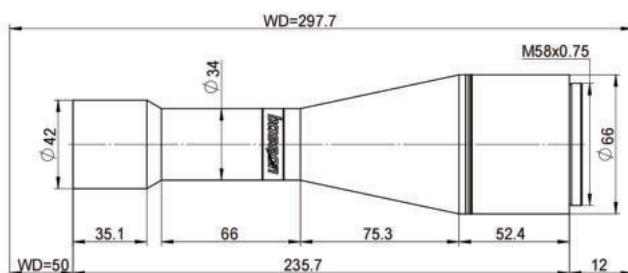
SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	32.6mm			39.2mm			Lens Mount
								H	V	D	H	V	D	
								23.04	23.04	32.58	31.00	24.10	39.20	
STS39025050F/M58-D	1.568	50±5	8.56	0.65	20	<0.05	<0.05	14.69	14.69	20.78	19.77	15.37	25.00	F/M58
STS39035060F/M58-D	1.120	60±5	11.98	1.28	20	<0.05	<0.05	20.57	20.57	29.09	27.68	21.52	35.00	F/M58
STS39045070F/M58-D	0.871	70±5	15.41	2.11	20	<0.05	<0.05	26.45	26.45	37.41	35.59	27.67	45.00	F/M58
STS39060080F/M58-D	0.653	80±5	20.54	3.75	20	<0.05	<0.05	35.28	35.28	49.89	47.45	36.89	60.00	F/M58
STS39070150F/M58-D	0.560	150±5	23.96	5.10	20	<0.05	<0.05	41.14	41.14	58.18	55.36	43.04	70.00	F/M58
STS39085150F/M58-D	0.461	125±5	29.10	7.52	20	<0.05	<0.05	49.98	49.98	70.67	67.22	52.26	85.00	F/M58
STS39105160F/M58-D	0.373	160±5	35.95	11.48	20	<0.05	<0.05	61.77	61.77	87.35	83.04	64.55	105.00	F/M58
STS39125200F/M58-D	0.314	200±5	42.79	16.27	20	<0.05	<0.05	73.38	73.38	103.76	98.85	76.85	125.00	F/M58
STS39155320F/M58-D	0.253	320±5	53.06	25.02	20	<0.05	<0.05	91.07	91.07	128.77	122.58	95.29	155.00	F/M58
STS39185320F/M58-D	0.212	320±5	63.33	35.64	20	<0.05	<0.05	108.73	108.73	153.76	146.30	113.74	185.00	F/M58
STS39215380F/M58-D	0.182	380±5	73.60	48.13	20	<0.05	<0.05	126.37	126.37	178.69	170.03	132.18	215.00	F/M58
STS39245380F/M58-D	0.160	380±5	83.88	62.50	20	<0.05	<0.05	144.00	144.00	203.63	193.75	150.63	245.00	F/M58
STS39270480F/M58-D	0.145	480±5	92.43	75.91	20	<0.05	<0.05	158.69	158.69	224.40	213.52	165.99	270.00	F/M58
STS39315545F/M58-D	0.124	545±5	107.84	103.32	20	<0.05	<0.05	185.81	185.81	262.74	249.11	193.66	315.00	F/M58

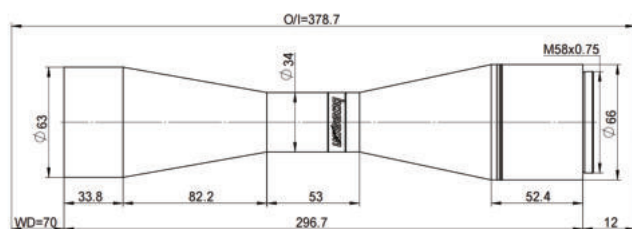
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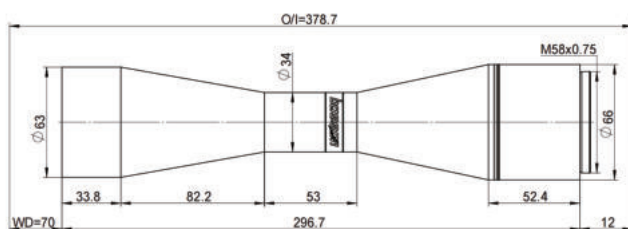
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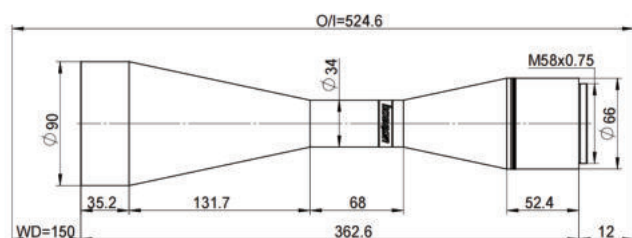
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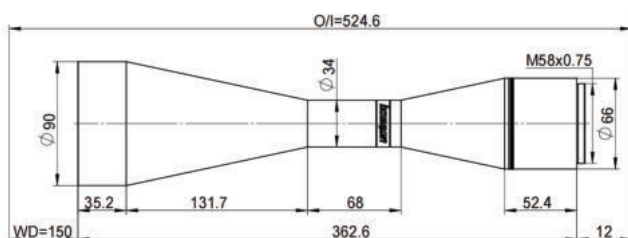
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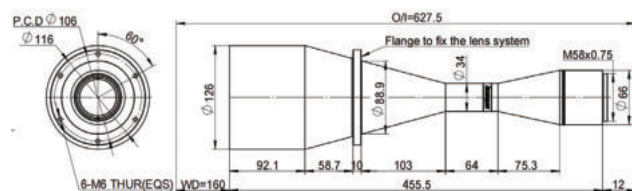
STS39070150F/M58



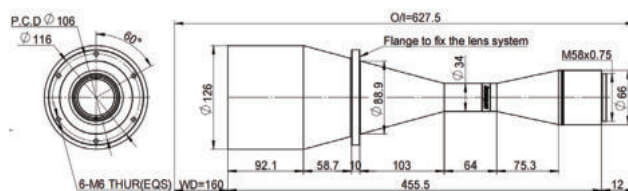
STS39070150F/M58-D



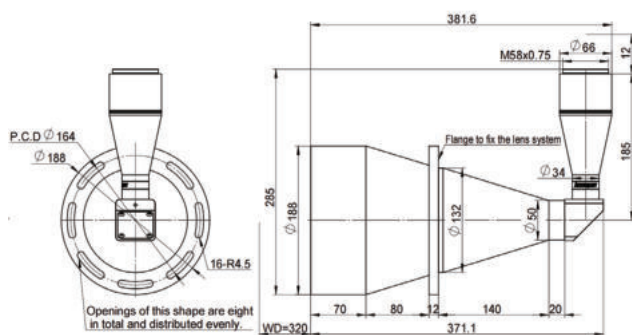
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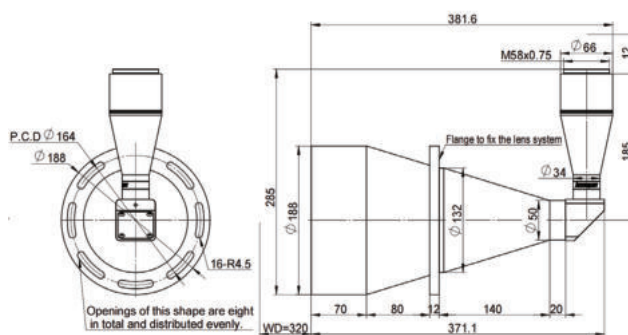
STS39070150F/M58-D



STS39155320F/M58



STS39155320F/M58-D



STS44



SPECIFICATIONS

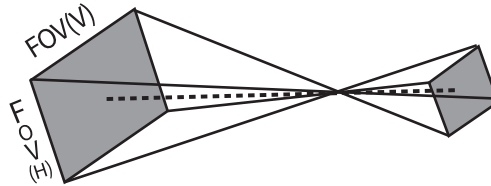
Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	43.5mm			35 Full			Lens Mount
								H	V	D	H	V	D	
								36.20	24.10	43.50	35.20	26.40	44.00	
STS44025050M58	1.760	50±5	5.15	0.35	13.5	<0.05	<0.05	20.57	13.69	24.72	20.00	15.00	25.00	M58
STS44035060M58	1.257	60±5	7.21	0.68	13.5	<0.05	<0.05	28.80	19.17	34.61	28.00	21.00	35.00	M58
STS44045070M58	0.978	70±5	9.26	1.13	13.5	<0.05	<0.05	37.01	24.64	44.48	36.00	27.00	45.00	M58
STS44060080M58	0.733	80±5	12.36	2.01	13.5	<0.05	<0.05	49.39	32.88	59.35	48.00	36.00	60.00	M58
STS44070150M58	0.629	150±5	14.40	2.73	13.5	<0.05	<0.05	57.55	38.31	69.16	56.00	42.00	70.00	M58
STS44085150M58	0.518	125±5	17.49	4.02	13.5	<0.05	<0.05	69.88	46.53	83.98	68.00	51.00	85.00	M58
STS44105160M58	0.419	160±5	21.62	6.15	13.5	<0.05	<0.05	86.40	57.52	103.82	84.00	63.00	105.00	M58
STS44125200M58	0.352	200±5	25.73	8.72	13.5	<0.05	<0.05	102.84	68.47	123.58	100.00	75.00	125.00	M58
STS44155320M58	0.284	320±5	31.90	13.39	13.5	<0.05	<0.05	127.46	84.86	153.17	124.00	93.00	155.00	M58
STS44185320M58	0.238	320±5	38.09	19.09	13.5	<0.05	<0.05	152.20	101.33	182.90	148.00	111.00	185.00	M58
STS44215380M58	0.205	380±5	44.26	25.79	13.5	<0.05	<0.05	176.89	117.76	212.56	172.00	129.00	215.00	M58
STS44245380M58	0.180	380±5	50.44	33.49	13.5	<0.05	<0.05	201.57	134.19	242.22	196.00	147.00	245.00	M58
STS44270480M58	0.163	480±5	55.59	40.67	13.5	<0.05	<0.05	222.14	147.89	266.93	216.00	162.00	270.00	M58
STS44315545M58	0.140	545±5	64.70	55.10	13.5	<0.05	<0.05	258.57	172.14	310.71	252.00	189.00	315.00	M58

SPECIFICATIONS

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	43.5mm			35 Full			Lens Mount
								H	V	D	H	V	D	
								36.20	24.10	43.50	35.20	26.40	44.00	
STS44025050M58-D	1.760	50±5	7.63	0.52	20	<0.05	<0.05	20.57	13.69	24.72	20.00	15.00	25.00	M58
STS44035060M58-D	1.257	60±5	10.68	1.01	20	<0.05	<0.05	28.80	19.17	34.61	28.00	21.00	35.00	M58
STS44045070M58-D	0.978	70±5	13.73	1.67	20	<0.05	<0.05	37.01	24.64	44.48	36.00	27.00	45.00	M58
STS44060080M58-D	0.733	80±5	18.30	2.98	20	<0.05	<0.05	49.39	32.88	59.35	48.00	36.00	60.00	M58
STS44070150M58-D	0.629	150±5	21.35	4.05	20	<0.05	<0.05	57.55	38.31	69.16	56.00	42.00	70.00	M58
STS44085150M58-D	0.518	125±5	25.93	5.97	20	<0.05	<0.05	69.88	46.53	83.98	68.00	51.00	85.00	M58
STS44105160M58-D	0.419	160±5	32.03	9.11	20	<0.05	<0.05	86.40	57.52	103.82	84.00	63.00	105.00	M58
STS44125200M58-D	0.352	200±5	38.13	12.91	20	<0.05	<0.05	102.84	68.47	123.58	100.00	75.00	125.00	M58
STS44155320M58-D	0.284	320±5	47.28	19.86	20	<0.05	<0.05	127.46	84.86	153.17	124.00	93.00	155.00	M58
STS44185320M58-D	0.238	320±5	56.43	28.29	20	<0.05	<0.05	152.20	101.33	182.90	148.00	111.00	185.00	M58
STS44215380M58-D	0.205	380±5	65.58	38.20	20	<0.05	<0.05	176.89	117.76	212.56	172.00	129.00	215.00	M58
STS44245380M58-D	0.180	380±5	74.73	49.61	20	<0.05	<0.05	201.57	134.19	242.22	196.00	147.00	245.00	M58
STS44270480M58-D	0.163	480±5	82.35	60.25	20	<0.05	<0.05	222.14	147.89	266.93	216.00	162.00	270.00	M58
STS44315545M58-D	0.140	545±5	96.08	82.00	20	<0.05	<0.05	258.57	172.14	310.71	252.00	189.00	315.00	M58

TECHNICAL TERMS

Magnification



Magnification is the ratio between the size of an object on the camera sensor and the actual size of it.

$$\text{Magnification } (\beta) = \frac{\text{Sensor (V), (H) or (D)}}{\text{FOV (V), (H) or (D)}}$$

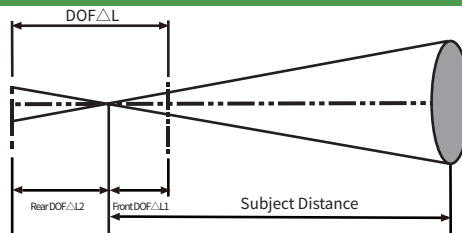
Object Space Resolution

Object space resolution is the minimum distance between two points that can still be distinguished as separate points.

$$\text{Resolution} = \frac{0.61 * \lambda}{NA}$$

In this brochure, value of λ is 550nm and NA refers to numerical aperture.

Depth of Field (DOF)



DOF is the maximum range where the object appears to be in acceptable focus.

$$\text{Depth of Field} = \Delta L_1 + \Delta L_2 = \frac{2 * \delta * F}{\beta^2}$$

ΔL_1 refers to front DOF, ΔL_2 refers to rear DOF and δ refers to diameter of permissible circle of confusion. In this brochure, diameter of permissible circle of confusion is 40 μ m and F refers to effective F number.

Telecentricity

Telecentricity refers to the angle of which chief optical ray deviates from the optical axis. The smaller the angle, the higher the telecentricity. The smaller the magnification error, the more precise the image.

Optical Distortion

Distortion refers to an optical aberration that deforms and bends physically straight lines. It is calculated by relating the actual distance to the predicted distance of the image.

$$\text{Distortion} = \frac{y' - y_0}{y_0} \times 100\%$$

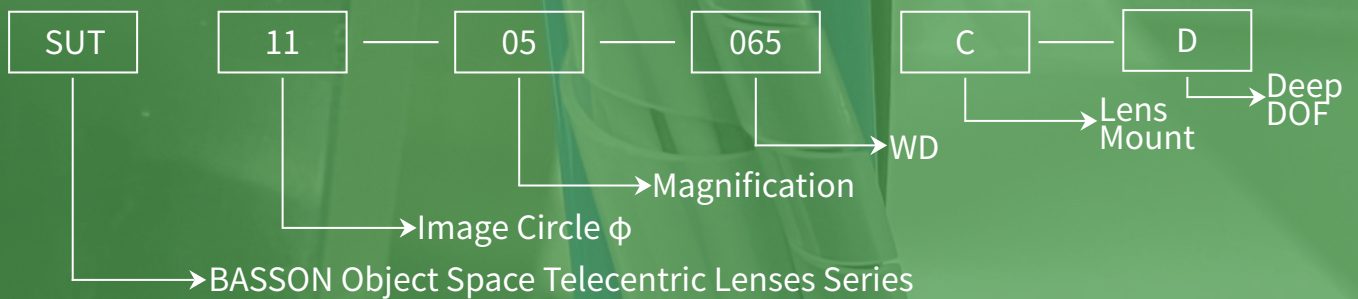
INDUSTRIAL LENS

- STS SERIES
- SUT SERIES

SUT SERIES

Standard Industrial Telecentric Lenses with Large Magnification

MODEL DESCRIPTION



FEATURES

- CTO—Phd Degree Holder of Oxford University
- Various Working Distances Satisfy Different Applications
- Various Magnifications Satisfy Different Technical Requirements
- Distortion: $<0.05\%$ Telecentricity: $<0.1^\circ$
- IP 65 for Use in Harsh Industrial Environments
- High Cost Performance, Suitable for Systems
- Used for Batch Testing and Inspection
- Options between high resolution and deep DOF are available, satisfying different technical requirements
- Telecentric design, deep DOF and high resolution
- Multi-layer coating, high transmittance
- High cost performance, suitable for systems used for batch testing and inspection
- Customized aperture is available

SUT065



SPECIFICATIONS ON LENS SERIES WITH HIGH RESOLUTION

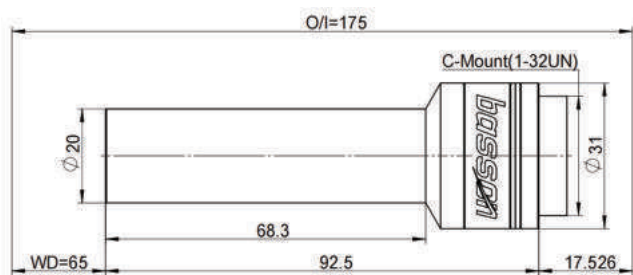
Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
								8.45	7.07	11.00	9.20	6.90	11.50	
SUT1105065C	0.5	65	12.078	2.88	9	<0.05	<0.05	16.90	14.14	22.00	18.40	13.80	23.00	C
SUT1108065C	0.8	65	6.710	1.00	8	<0.05	<0.05	10.56	8.84	13.75	11.50	8.63	14.37	C
SUT1110065C	1.0	65	7.381	0.88	11	<0.05	<0.05	8.45	7.07	11.00	9.20	6.90	11.50	C
SUT1120065C	2.0	65	4.362	0.26	13	<0.05	<0.05	4.23	3.54	5.50	4.60	3.45	5.75	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1"			1.1"			Lens Mount
								H	V	D	H	V	D	
								12.80	9.60	16.00	14.08	10.56	17.60	
SUTZ1740065C	4.0	65	4.362	0.13	26	<0.05	<0.05	3.20	2.40	4.00	3.52	2.64	4.40	C

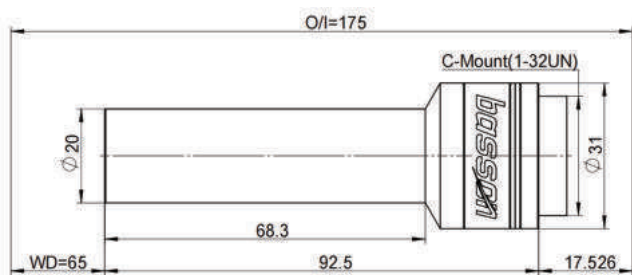
SPECIFICATIONS ON LENS SERIES WITH DEEP DOF

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
								8.45	7.07	11.00	9.20	6.90	11.50	
SUT1105065C-D	0.5	65	24.156	5.76	18	<0.05	<0.05	16.90	14.14	22.00	18.40	13.80	23.00	C
SUT1108065C-D	0.8	65	13.420	2.00	16	<0.05	<0.05	10.56	8.84	13.75	11.50	8.63	14.37	C
SUT1110065C-D	1.0	65	13.420	1.60	20	<0.05	<0.05	8.45	7.07	11.00	9.20	6.90	11.50	C
SUT1120065C-D	2.0	65	6.710	0.40	20	<0.05	<0.05	4.23	3.54	5.50	4.60	3.45	5.75	C

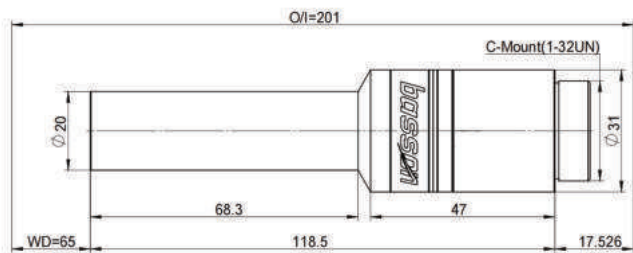
SUT1120065C



SUT1120065C-D



SUTZ1740065C



SUT110



SPECIFICATIONS ON LENS SERIES WITH HIGH RESOLUTION

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
								8.45	7.07	11.00	9.20	6.90	11.50	
SUT1105110C	0.5	110	12.078	2.88	9	<0.05	<0.05	16.90	14.14	22.00	18.40	13.80	23.00	C
SUT1108110C	0.8	110	6.710	1.00	8	<0.05	<0.05	10.56	8.84	13.75	11.50	8.63	14.37	C
SUT1110110C	1.0	110	7.381	0.88	11	<0.05	<0.05	8.45	7.07	11.00	9.20	6.90	11.50	C
SUT1115110C	1.5	110	4.920	0.39	11	<0.05	<0.05	5.63	4.71	7.33	6.13	4.60	7.67	C
SUT1120110C	2.0	110	4.362	0.26	13	<0.05	<0.05	4.23	3.54	5.50	4.60	3.45	5.75	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1"			1.1"			Lens Mount
								H	V	D	H	V	D	
								12.80	9.60	16.00	14.08	10.56	17.60	
SUTZ1710110C	1.0	110	12.080	1.44	18	<0.05	<0.05	12.80	9.60	16.00	14.08	10.56	17.60	C
SUTZ1740110C	4.0	110	4.360	0.13	26	<0.05	<0.05	3.20	2.40	4.00	3.52	2.64	4.40	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
								14.16	10.37	17.60	14.80	11.10	18.50	
SUT1850110C	5.0	110	3.360	0.08	25	<0.05	<0.05	2.83	2.07	3.52	2.96	2.22	3.70	C

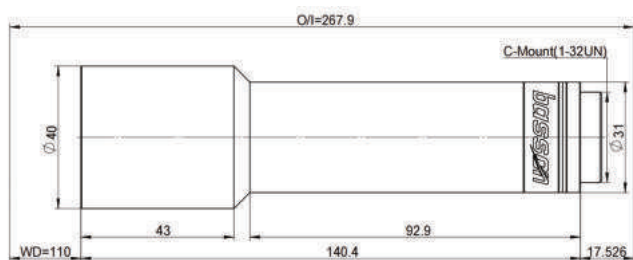
Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
								14.16	10.37	17.60	14.80	11.10	18.50	
SUTZ1815110C	1.5	110	12.080	0.96	27	<0.05	<0.05	9.44	6.91	11.73	9.80	7.40	12.33	C
SUTZ1860110C	6.0	110	4.360	0.09	39	<0.05	<0.05	2.36	1.73	2.93	2.46	1.85	3.08	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	23mm			28mm			Lens Mount
								H	V	D	H	V	D	
								18.40	13.80	23.00	22.40	16.80	28.00	
SUTZ2815110F	1.5	110	12.080	0.96	27	<0.05	<0.05	12.27	9.20	15.33	14.93	11.20	18.60	F
SUTZ2860110F	6.0	110	4.360	0.09	39	<0.05	<0.05	3.07	2.30	3.83	3.73	2.80	4.67	F

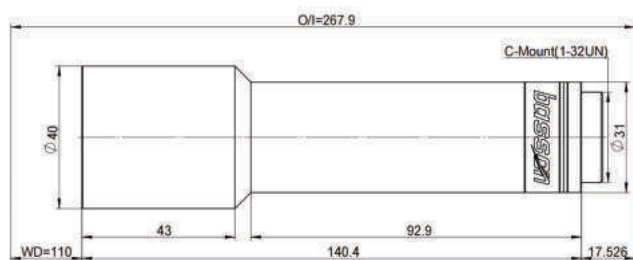
SPECIFICATIONS ON LENS SERIES WITH DEEP DOF

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
								8.45	7.07	11.00	9.20	6.90	11.50	
SUT1105110C-D	0.5	110	24.156	5.76	18	<0.05	<0.05	16.90	14.14	22.00	18.40	13.80	23.00	C
SUT1108110C-D	0.8	110	13.420	2.00	16	<0.05	<0.05	10.56	8.84	13.75	11.50	8.63	14.37	C
SUT1110110C-D	1.0	110	10.736	1.28	16	<0.05	<0.05	8.45	7.07	11.00	9.20	6.90	11.50	C
SUT1115110C-D	1.5	110	8.950	0.71	20	<0.05	<0.05	5.63	4.71	7.33	6.13	4.60	7.67	C
SUT1120110C-D	2.0	110	6.710	0.40	20	<0.05	<0.05	4.23	3.54	5.50	4.60	3.45	5.75	C

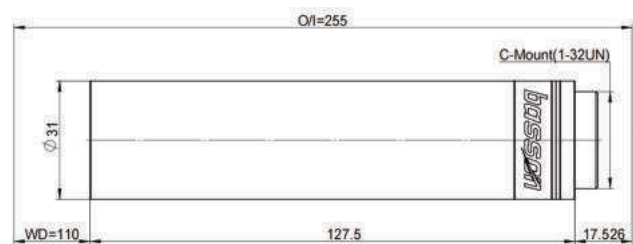
SUT1105110C



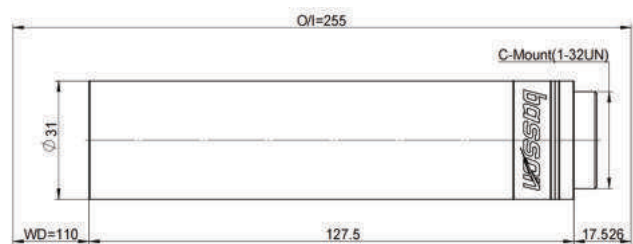
SUT1105110C-D



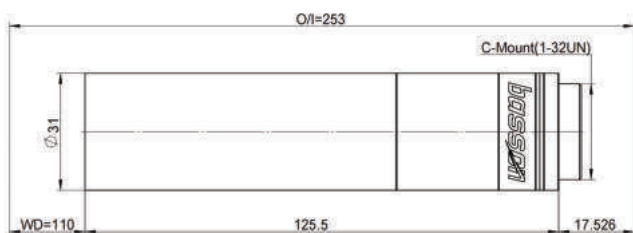
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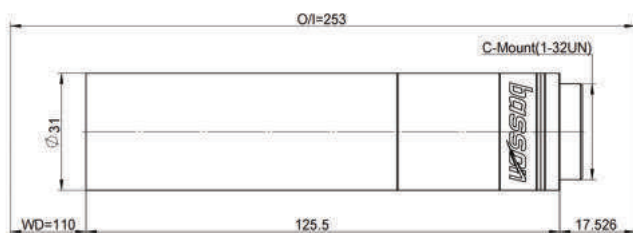
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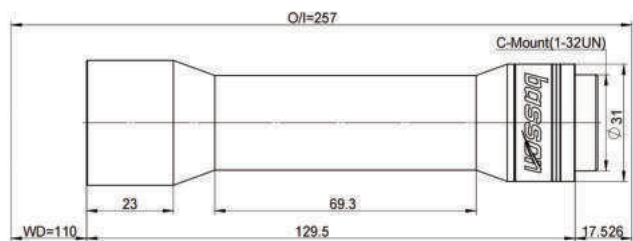
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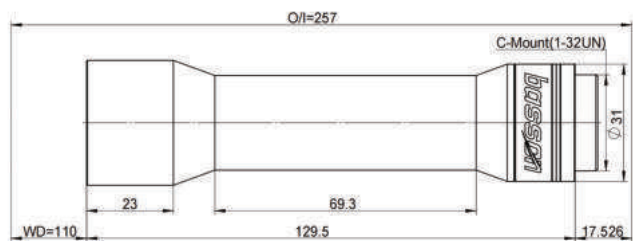
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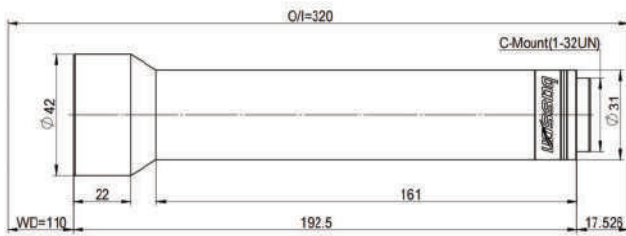
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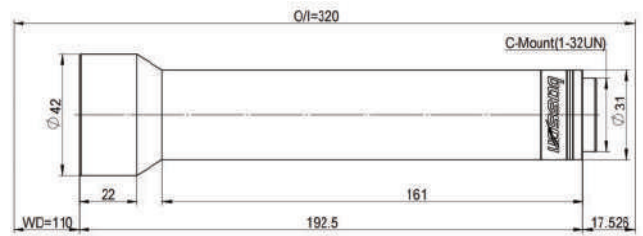
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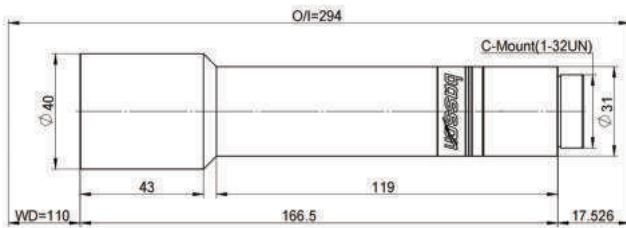
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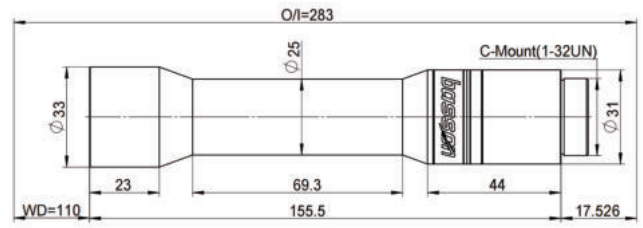
SUT1850110C-D



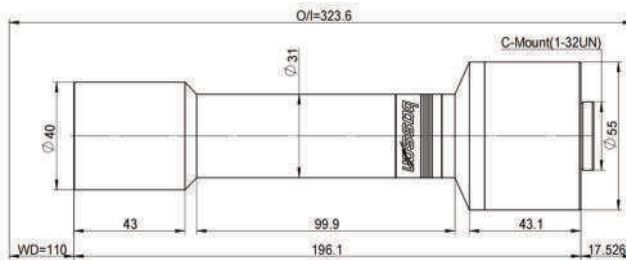
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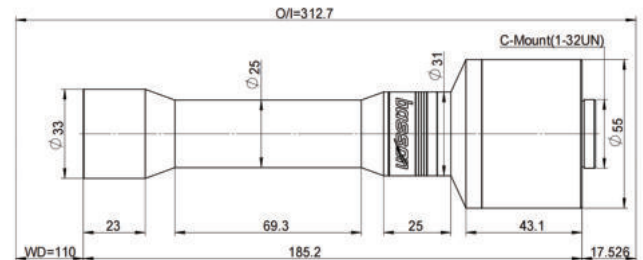
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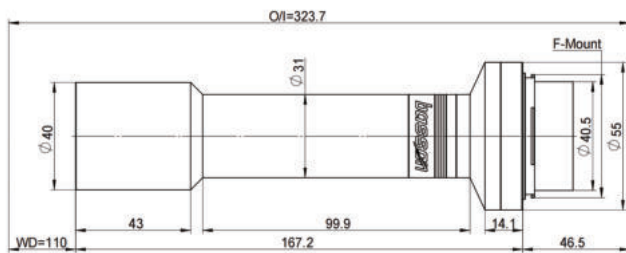
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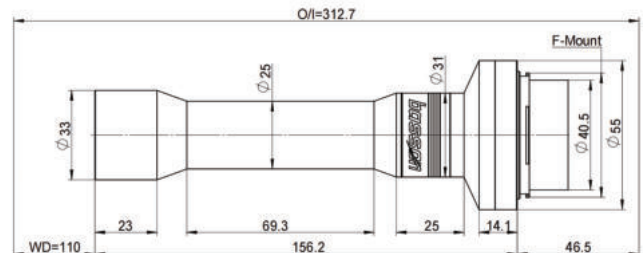
SUTZ1860110C



SUTZ2815110F



SUTZ2860110F



ULWD SERIES



SPECIFICATIONS ON LENS SERIES WITH HIGH RESOLUTION

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
SUT1110220C	1.0	220	7.381	0.88	11	<0.05	<0.05	8.45	7.07	11.00	9.20	6.90	11.50	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
SUT1805300C	0.5	300	17.446	4.16	13	<0.05	<0.05	28.32	20.74	35.20	29.60	22.20	37.00	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1"			1.1"			Lens Mount
								H	V	D	H	V	D	
SUTZ1710300C	1.0	300	17.446	2.08	26	<0.05	<0.05	12.80	9.60	16.00	14.08	10.56	17.60	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
SUTZ1815300C	1.5	300	17.466	1.39	39	<0.05	<0.05	9.44	6.91	11.73	9.90	7.40	12.30	C

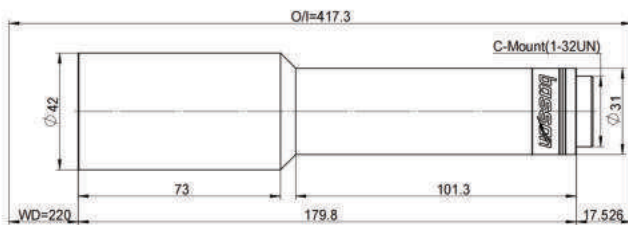
Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity ($^{\circ}$)	Actual Measured Distortion (%)	23mm			28mm			Lens Mount
								H	V	D	H	V	D	
SUTZ2815300F	1.5	300	17.466	1.39	39	<0.05	<0.05	12.27	9.20	15.33	14.90	7.40	18.60	F

SPECIFICATIONS ON LENS SERIES WITH DEEP DOF

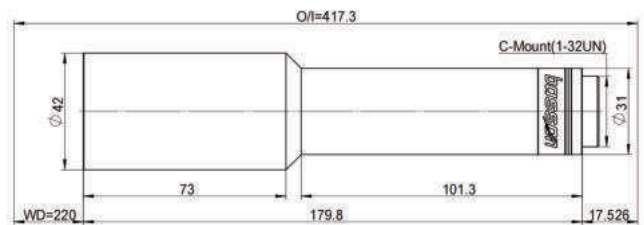
Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	2/3"			11.5mm			Lens Mount
								H	V	D	H	V	D	
SUT1110220C-D	1.0	220	13.420	1.60	20	<0.05	<0.05	8.45	7.07	11.00	9.20	6.90	11.50	C

Model	Magnification	WD (mm)	Object Space Resolution (μm)	DOF (mm)	Effective F-number	Actual Measured Telecentricity (°)	Actual Measured Distortion (%)	1.1"			18.5mm			Lens Mount
								H	V	D	H	V	D	
SUT1805300C-D	0.5	300	26.840	6.40	20	<0.05	<0.05	28.32	20.74	35.20	29.60	22.20	37.00	C

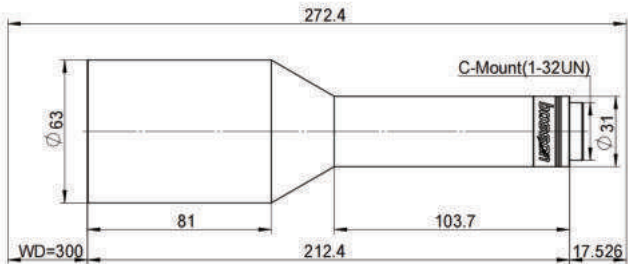
SUT1110220C



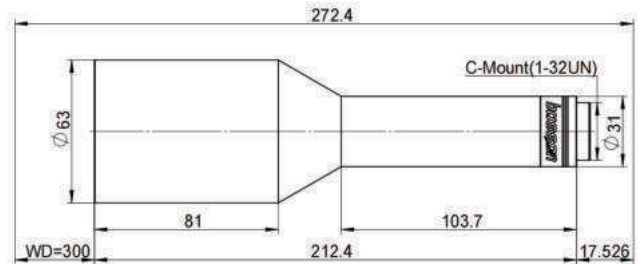
SUT1110200C-D



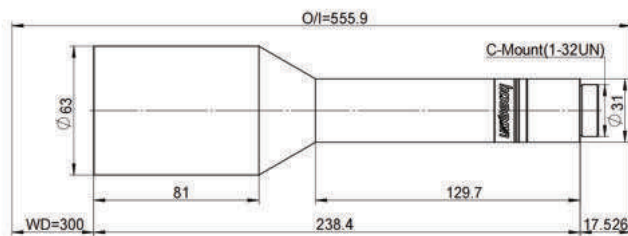
SUT1805300C



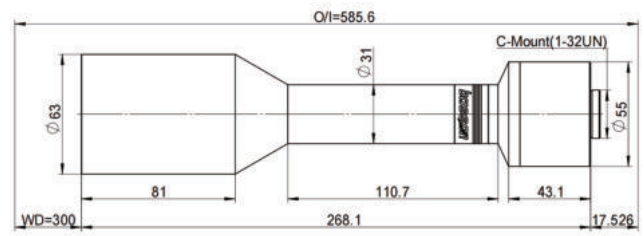
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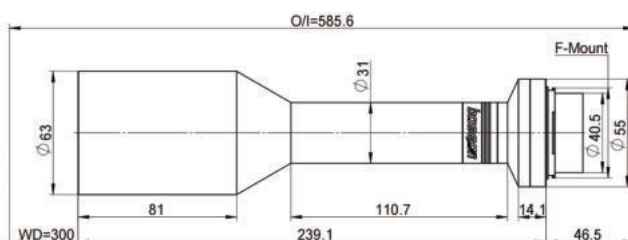
SUTZ1710300C



SUTZ1815300C



SUTZ2815300C



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