



阿基视觉科技 (东莞) 有限公司
AKI Vision Technology (Dongguan) Co.,Ltd

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Corporate Vision:
Provide World-Class Industrial Vision Solutions.

Corporate Mission:
Based on Intelligent Manufacturing, Empower
Industrial Manufacturing 4.0.

Management Policy:
Quality First, Customer First, Integrity-Based,
Win-Win Cooperation.



CATALOG

01 MACRO SERIES

2/3" HR MACRO LENS 01-02

1.1" ULTRA-CLEAR MACRO LENS 03-04

02 CCTV SERIES

2/3" HR CCTV LENS 05-06

1.1" ULTRA-CLEAR CCTV LENS 07-08

03 TELECENTRIC SERIES

1/2" SR TELECENTRIC LENS 09-12

2/3" HR TELECENTRIC LENS 13-14

2/3" ULTRA-CLEAR TELECENTRIC LENS 15-16

LARGE TARGET TELECENTRICITY 17-18

1.1" ULTRA-CLEAR TELECENTRIC LENS 19-20

INFRARED TELECENTRIC LENS 21-22

04 LINE SCAN SERIES

HIGH-RESOLUTION, LARGE-FORMAT LINE-SCAN LENS 23-24

HIGH-MAG, HIGH-RESOLUTION, LARGE-FORMAT LINE SCAN LENS 25-26

2/3" HR MACRO LENS



Naming Conventions:

— Macro Series

AKW-16R3-2/3C

AKI Macro EFL Definition IF Mount

PRODUCT FEATURES

- Ultra-Low Distortion Design
- Magnification Rate Range 0.05x~0.8x
- High Resolution Design: 5 Million Pixels, Maximum Support 2/3" Image Size
- Anti-Vibration Design, Support 5G Vibration Environment Application

PRODUCT ADAPTATION FIELD



3C Application



Pharmaceutical Packaging

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Fno	EFL (mm)	TV Distortion (%)	MTF (lp/mm)	Pixel (μm)	Mount	Lens Size (mm)	Filter Size (mm)
AKW-16R3-2/3C	70-315	0.20-0.05	2/3"	2.5-16	16	≤0.10	130	3.8	C	φ32x29	M27x0.5
AKW-25R3-2/3C	65-260	0.41-0.11	2/3"	2.6-16	25	≤0.05	130	3.8	C	φ32x36	M27x0.5
AKW-35R3-2/3C	50-140	0.70-0.25	2/3"	3.5-16	35	≤0.05	130	3.8	C	φ32x54	M27x0.5
AKW-50R3-2/3C	110-150	0.80-0.50	2/3"	3.0-16	50	≤0.06	130	3.8	C	φ32x62	M27x0.5
AKW-75R3-2/3C	270-490	0.39-0.19	2/3"	4.0-16	75	≤0.08	130	3.8	C	φ32x69	M27x0.5

FOV (mm)

Model Name	WD Min.(mm)	Magnification Max.(x)	FOV (mm)	WD Max.(mm)	Magnification Min.(x)	FOV (mm)
AKW-16R3-2/3C	70	0.20	44.0*33.0	315	0.05	176.0*132.0
AKW-25R3-2/3C	65	0.41	21.5*16.1	260	0.11	80.0*60.0
AKW-35R3-2/3C	50	0.70	12.6*9.43	140	0.25	35.2*26.4
AKW-50R3-2/3C	110	0.80	11.0*8.25	150	0.50	17.6*13.2
AKW-75R3-2/3C	270	0.39	22.6*16.9	490	0.19	46.3*34.7

1.1" ULTRA-CLEAR MACRO LENS



Naming Conventions:

— Macro Series

AKW-25R4-1.1C

AKI Macro EFL Definition IF Mount

PRODUCT FEATURES

- Ultra-Low Distortion Design, AR/NIR Cocating
- Magnification Rate Range 0.06x~0.45x Adjustable
- High Resolution Design: 200lp/mm, Matching 2.2μm Pixels Size, 20 Million Pixels, Maximum support 1.2" Image Size
- Anti-Vibration Design, Support 5G Vibration Environment Application

PRODUCT ADAPTATION FIELD



3C Application



Pharmaceutical Packaging

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Fno	EFL (mm)	TV Distortion (%)	MTF (lp/mm)	Pixel (μm)	Mount	Lens Size (mm)	Filter Size (mm)
AKW-16R4-1.0C	150-550	0.095-0.029	1.0"	4.0	16	≤0.07	200	2.4	C	φ32x40	M25.5x0.5
AKW-25R4-1.0C	200-700	0.122-0.035	1.0"	4.0	25	≤0.08	200	2.4	C	φ32x35	M25.5x0.5
AKW-35R4-1.0C	150-550	0.274-0.063	1.0"	4.0	35	≤0.09	200	2.4	C	φ32x41	M25.5x0.5
AKW-25R4-1.1C	65-400	0.32-0.06	1.2"	1.8-16	25	≤0.10	200	2.4	C	φ42x62	M35.5x0.5
AKW-35R4-1.1C	145-590	0.26-0.06	1.2"	1.8-16	35	≤0.11	200	2.4	C	φ35x43	M30.5x0.5
AKW-40R3-1.2C	75-144	0.30-1.0	1.2"	4.5-32	43	≤0.01	150	3.5	C	φ44x79	M30.5x0.5
AKW-50R4-1.1C	175-600	0.29-0.06	1.2"	2.0-16	50	≤0.10	200	2.4	C	φ40x70	M35.5x0.5
AKW-75R4-1.1C	200-500	0.464-0.163	1.2"	2.8-16	75	≤0.035	200	2.4	C	φ40x82	M37x0.75
AKW-90R4-1.1C	325-400	0.45-0.33	1.2"	2.8-16	90	≤0.08	200	2.4	C	φ40x96	M34x0.5

FOV (mm)

Model Name	WD Min.(mm)	Magnification Max.(x)	FOV (mm)	WD Max.(mm)	Magnification Min.(x)	FOV (mm)
AKW-16R4-1.0C	150	0.095	134.7*101.1	550	0.029	441.4*331.0
AKW-25R4-1.0C	200	0.122	104.9*78.7	700	0.035	365.7*274.3
AKW-35R4-1.0C	150	0.274	46.7*35	550	0.063	203.2*152.4
AKW-25R4-1.1C	65	0.32	44.1*32.2	400	0.06	235.0*171.7
AKW-35R4-1.1C	145	0.25	56.4*41.2	590	0.06	235.0*171.7
AKW-40R3-1.2C	75	1.0	14.1*10.3	144	0.3	47.0*34.3
AKW-50R4-1.1C	175	0.29	48.6*35.5	600	0.06	235.0*171.7
AKW-75R4-1.1C	200	0.464	30.4*22.2	500	0.163	86.5*63.2
AKW-90R4-1.1C	325	0.45	31.3*22.9	400	0.33	42.7*31.2

2/3" HR CCTV LENS



PRODUCT ADAPTATION FIELD



3C Application



Auto Parts Inspection

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Fno	EFL (mm)	TV Distortion (%)	MTF (lp/mm)	Pixel (μm)	Mount	Lens Size (mm)	Filter Size (mm)
AKF-12R4-2/3C	145	0.07	2/3"	1.8-16	12	≤1.10	230	2.2	C	φ32x40	M25.5x0.5
AKF-16R4-2/3C	145	0.09	2/3"	1.6-16	16	≤0.50	230	2.2	C	φ32x42	M25.5x0.5
AKF-25R4-2/3C	145	0.15	2/3"	1.6-16	25	≤0.08	230	2.2	C	φ32x40	M25.5x0.5
AKF-35R4-2/3C	195	0.16	2/3"	2.0-16	35	≤0.10	230	2.2	C	φ32x46	M25.5x0.5
AKF-50R4-2/3C	295	0.19	2/3"	2.5-16	50	≤0.10	230	2.2	C	φ30x60	M25.5x0.5

FOV CONVERSION

Model Name	Comparison of Different Target Field of View		
	2/3"	1/2"	1.1"
AKF-12R4-2/3C	125.7*94.3	90.4*68.6	/
AKF-16R4-2/3C	97.8*73.3	71.1*53.3	/
AKF-25R4-2/3C	58.7*44.0	42.7*32.0	/
AKF-35R4-2/3C	55.0*41.3	40.0*30.0	/
AKF-50R4-2/3C	46.3*34.8	33.7*25.3	/

Naming Conventions:

— FA Series

AKF-16R4-2/3C

AKI FA EFL Definition IF Mount

PRODUCT FEATURES

Ultra-Low Distortion Design, AR/NIR Coating

Small size, Minimize the Work Distance

High Resolution Design: 200lp/mm , Matching 2.2μm pixel Size

Format size 2/3" compatible



Naming Conventions:

— FA Series

AKF-25R4-1.1C

AKI FA EFL Definition IF Mount

PRODUCT FEATURES

- Ultra-Low Distortion, AR/NIR Coating With Good Center Edge Consistency
- LargeFormat with High Resolution
- 20 Million Pixels, More Than 160lp/mm Resolution
- Supports Max. 1.2" Image Size
- Anti-Vibration Design, Support 5G~15G Vibration Environment Application

PRODUCT ADAPTATION FIELD



3C Application



Auto Parts Inspection

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Fno	EFL (mm)	TV Distortion (%)	MTF	Pixel (μm)	Mount	Lens Size (mm)	Filter Size (mm)
AKF-12R4-1.1C	95	0.120	1.1"	1.6-16	12	≤2.10	150	3.5	C	φ40x66	M35.5x0.5
AKF-16R4-1.1C	95	0.145	1.1"	1.6-16	16	≤0.80	150	3.5	C	φ40x68	M35.5x0.5
AKF-25R4-1.1C	95	0.220	1.1"	1.6-16	25	≤0.05	150	3.5	C	φ42x67	M37x0.75
AKF-35R4-1.1C	190	0.194	1.1"	1.8-16	35	≤0.10	150	3.5	C	φ40x55	M35.5x0.5
AKF-50R4-1.1C	295	0.198	1.1"	2.0-16	50	≤0.10	150	3.5	C	φ40x60	M35.5x0.5
AKT-05R4-1.1C	>500	0.011	1.1"	2.8-16	5	≤0.27	150	3.5	C	φ40x57	M30.5x0.5
AKT-25R4-1.1C	>2000	0.012	1.1"	2.8-16	25	≤0.15	150	3.5	C	φ32x39	M30.5x0.5
AKT-35R4-1.1C	>2000	0.017	1.1"	2.8-16	35	≤0.18	150	3.5	C	φ32x47	M30.5x0.5
AKT-50R4-1.1C	>2000	0.025	1.1"	2.8-16	50	≤0.17	150	3.5	C	φ32x58	M30.5x0.5
AKT-75R4-1.1C	>2000	0.039	1.1"	2.8-16	75	≤0.18	150	3.5	C	φ38x65	M35.5x0.5

FOV CONVERSION

Model Name	Comparison of Different Target Field of View		
	1.1"	2/3"	1/2"
AKF-12R4-1.1C	117.5*85.8	73.3*55.1	53.3*40.1
AKF-16R4-1.1C	97.2*71.1	60.7*45.5	44.1*33.1
AKF-25R4-1.1C	64.1*46.8	40.1*30.1	29.1*21.8
AKF-35R4-1.1C	72.7*53.1	45.4*34.1	33.1*24.7
AKF-50R4-1.1C	71.2*52.1	44.4*33.3	32.3*24.2

1/2" SR TELECENTRIC LENS



Naming Conventions:

— Telecentric Series

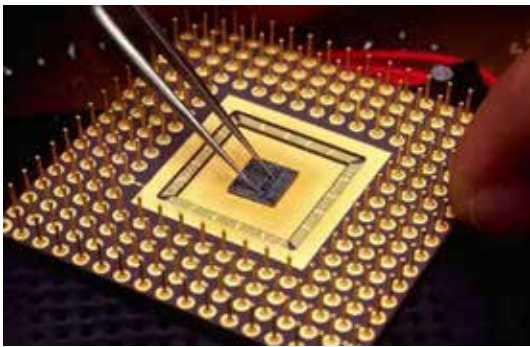
AKY-65R1-1/2TC-2x

AKI Tel WD Definition IF Mount Magnification Coaxial Light

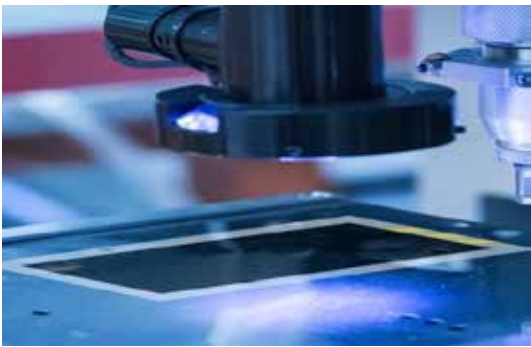
PRODUCT FEATURES

- Small Size, High Resolution, Low Telecentricity
- Manification Rate Range is 0.3x-8x
- Support 2M-5M Camera, 1/2" Image Size
- Ultra-Low Distortion Design And Good Uniformity

PRODUCT ADAPTATION FIELD



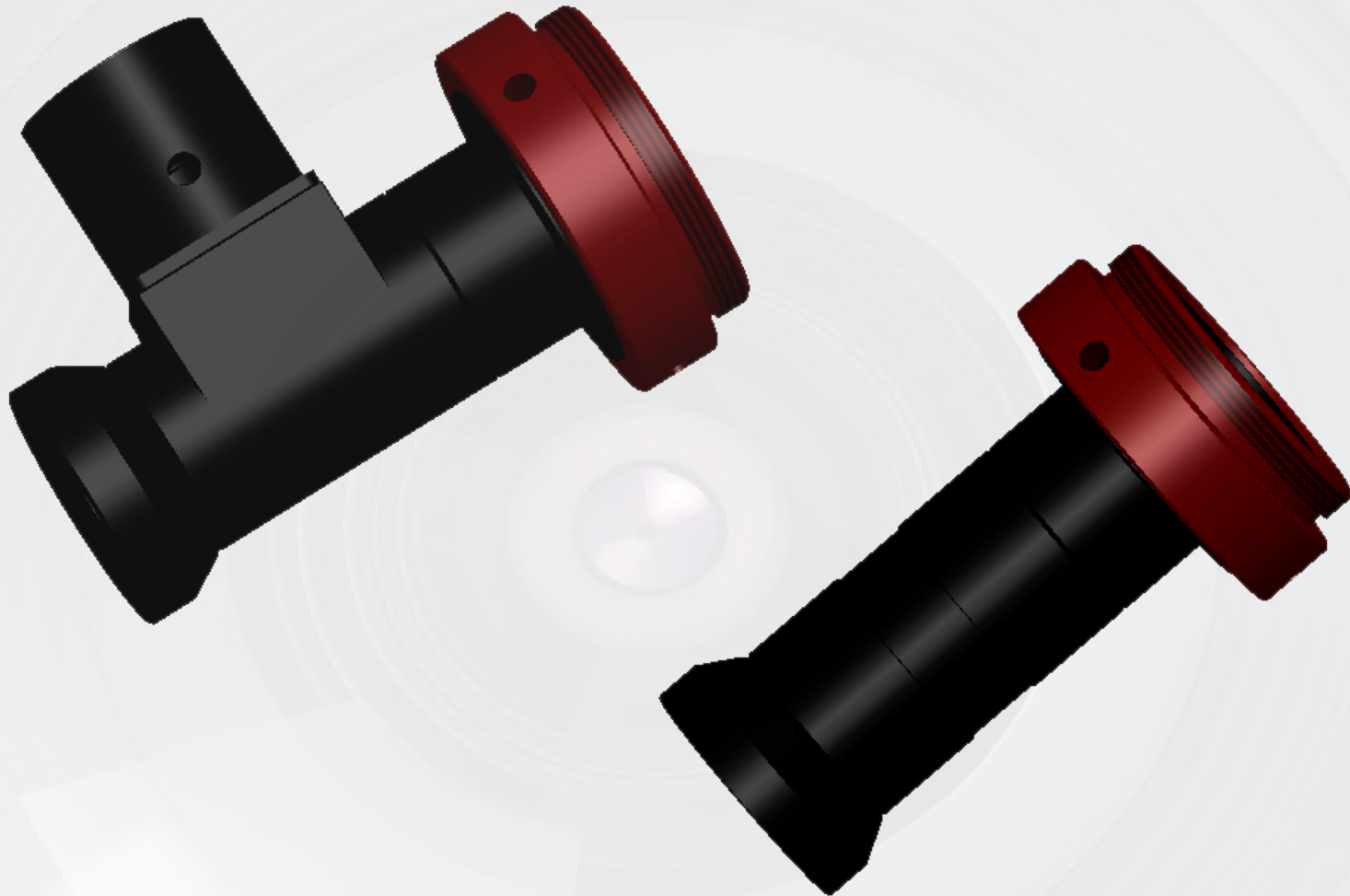
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FPD Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Mount
AKY-65R1-1/2C-0.8x	65	0.8	1/2"	14.3	170	≤0.01	12.0	1.79	-	C
AKY-65R1-1/2TC-0.8x	65	0.8	1/2"	14.3	170	≤0.01	12.0	1.79	✓	C
AKY-65R1-1/2C-1x	65	1.0	1/2"	18.2	160	≤0.01	12.0	1.45	-	C
AKY-65R1-1/2TC-1x	65	1.0	1/2"	18.2	160	≤0.01	12.0	1.45	✓	C
AKY-65R1-1/2C-2x	65	2.0	1/2"	17.6	143	≤0.02	5.9	0.35	-	C
AKY-65R1-1/2TC-2x	65	2.0	1/2"	17.6	143	≤0.02	5.9	0.35	✓	C
AKY-65R1-1/2C-3x	65	3.0	1/2"	21.0	141.8	≤0.01	4.7	0.19	-	C
AKY-65R1-1/2TC-3x	65	3.0	1/2"	21.0	141.8	≤0.01	4.7	0.19	✓	C
AKY-65R1-1/2C-4x	65	4.0	1/2"	26.2	147.5	≤0.01	4.4	0.13	-	C
AKY-65R1-1/2TC-4x	65	4.0	1/2"	26.2	147.5	≤0.01	4.4	0.13	✓	C
AKY-65R1-1/2C-6x	65	6.0	1/2"	39.3	163.4	≤0.01	4.4	0.09	-	C
AKY-65R1-1/2TC-6x	65	6.0	1/2"	39.3	163.4	≤0.01	4.4	0.09	✓	C
AKY-110R1-1/2C-0.8x	110	0.8	1/2"	15.9	255	≤0.01	13.3	1.98	-	C
AKY-110R1-1/2TC-0.8x	110	0.8	1/2"	15.9	255	≤0.01	13.3	1.98	✓	C
AKY-110R1-1/2C-1.0x	110	1.0	1/2"	20.9	240	≤0.05	14.0	1.67	-	C
AKY-110R1-1/2TC-1.0x	110	1.0	1/2"	20.9	240	≤0.05	14.0	1.67	✓	C
AKY-110R1-1/2C-2.0x	110	2.0	1/2"	32.8	201	≤0.01	11.0	0.66	-	C
AKY-110R1-1/2TC-2.0x	110	2.0	1/2"	32.8	201	≤0.01	11.0	0.66	✓	C
AKY-110R1-1/2C-3.0x	110	3.0	1/2"	49.2	220	≤0.01	11.0	0.44	-	C
AKY-110R1-1/2TC-3.0x	110	3.0	1/2"	49.2	220	≤0.01	11.0	0.44	✓	C
AKY-110R1-1/2C-4.0x	110	4.0	1/2"	44.7	210	≤0.01	7.5	0.22	-	C
AKY-110R1-1/2TC-4.0x	110	4.0	1/2"	44.7	210	≤0.01	7.5	0.22	✓	C
AKY-110R1-1/2C-6.0x	110	6.0	1/2"	67.1	233	≤0.01	7.5	0.15	-	C
AKY-110R1-1/2TC-6.0x	110	6.0	1/2"	67.1	233	≤0.01	7.5	0.15	✓	C



Naming Conventions:

— Telecentric Series

AKY-40R1-1/2TC-2x

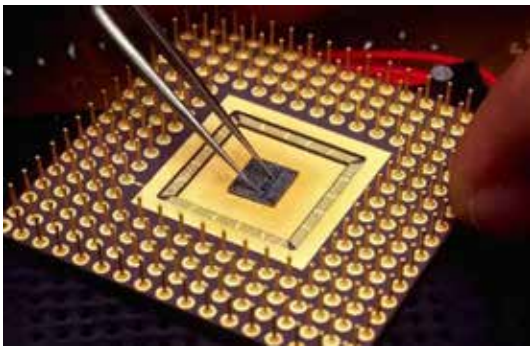
AKI Tel WD Definition IF Mount Magnification

Coaxial Light

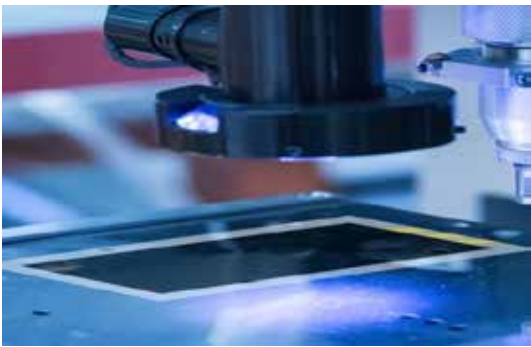
PRODUCT FEATURES

- Small Size, High Resolution, Low Telecentricity
- Manification Rate Range is 1.0x-8.0x
- Support 2M-5M Camera, 1/2" Image Size
- Ultra-Low Distortion Design And Good Uniformity

PRODUCT ADAPTATION FIELD



IC Closed Beta



FPD Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Mount
AKY-40R1-1/2C-1x	40	1.0	1/2"	10.9	105	≤0.02	7.3	0.87	—	C
AKY-40R1-1/2TC-1x	40	1.0	1/2"	10.9	105	≤0.02	7.3	0.87	✓	C
AKY-40R1-1/2C-1.5x	40	1.5	1/2"	12.5	105	≤0.02	5.6	0.45	—	C
AKY-40R1-1/2TC-1.5x	40	1.5	1/2"	12.5	105	≤0.02	5.6	0.45	✓	C
AKY-40R1-1/2C-2x	40	2.0	1/2"	13.4	96	≤0.01	4.5	0.27	—	C
AKY-40R1-1/2TC-2x	40	2.0	1/2"	13.4	96	≤0.01	4.5	0.27	✓	C
AKY-40R1-1/2C-3x	40	3.0	1/2"	17.0	107	≤0.05	3.8	0.15	—	C
AKY-40R1-1/2TC-3x	40	3.0	1/2"	17.0	107	≤0.05	3.8	0.15	✓	C
AKY-40R1-1/2C-4x	40	4.0	1/2"	18.5	104	≤0.01	3.1	0.09	—	C
AKY-40R1-1/2TC-4x	40	4.0	1/2"	18.5	104	≤0.01	3.1	0.09	✓	C
AKY-40R1-1/2C-6x	40	6.0	1/2"	27.7	118	≤0.02	3.1	0.06	—	C
AKY-40R1-1/2TC-6x	40	6.0	1/2"	27.7	118	≤0.02	3.1	0.06	✓	C
AKY-40R1-1/2C-8x	40	8.0	1/2"	37.0	131	≤0.02	3.1	0.05	—	C
AKY-40R1-1/2TC-8x	40	8.0	1/2"	37.0	131	≤0.02	3.1	0.05	✓	C



Naming Conventions:

— Telecentric Series

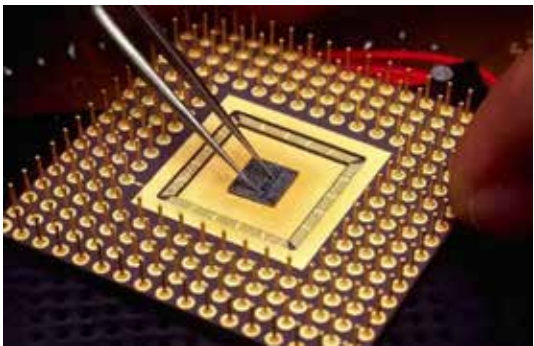
AKY-65R2-2/3TC-2x

AKI Tel WD Definition IF Mount Magnification Coaxial Light

PRODUCT FEATURES

- Ultra-Low Distortion Design, Good Uniformity
- Small size, High Resolution, Low Telecentricity
- Magnification Rate 0.2x-6x
- Support 2M-5M camera, 2/3" Image Size

PRODUCT ADAPTATION FIELD



IC Closed Beta



FPD Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Mount
AKY-65R2-2/3C-0.5x	65	0.5	2/3"	9.5	173	≤0.01	12.7	3.03	-	C
AKY-65R2-2/3TC-0.5x	65	0.5	2/3"	9.5	173	≤0.01	12.7	3.03	✓	C
AKY-65R2-2/3C-0.8x	65	0.8	2/3"	9.9	172	≤0.02	8.3	1.24	-	C
AKY-65R2-2/3TC-0.8x	65	0.8	2/3"	9.9	172	≤0.02	8.3	1.24	✓	C
AKY-65R2-2/3C-2x	65	2.0	2/3"	13.1	163	≤0.02	4.4	0.26	-	C
AKY-65R2-2/3TC-2x	65	2.0	2/3"	13.1	163	≤0.02	4.4	0.26	✓	C
AKY-65R2-2/3C-4x	65	4.0	2/3"	17.3	187	≤0.02	2.9	0.09	-	C
AKY-65R2-2/3TC-4x	65	4.0	2/3"	17.3	187	≤0.02	2.9	0.09	✓	C
AKY-65R2-2/3C-6x	65	6.0	2/3"	25.9	202	≤0.01	2.9	0.06	-	C
AKY-65R2-2/3TC-6x	65	6.0	2/3"	25.9	202	≤0.01	2.9	0.06	✓	C
AKY-110R2-2/3C-0.5x	110	0.5	2/3"	9.5	263	≤0.02	12.7	3.03	-	C
AKY-110R2-2/3TC-0.5x	110	0.5	2/3"	9.5	263	≤0.02	12.7	3.03	✓	C
AKY-110R2-2/3C-0.8x	110	0.8	2/3"	11.0	256	≤0.01	9.2	1.37	-	C
AKY-110R2-2/3TC-0.8x	110	0.8	2/3"	11.0	256	≤0.01	9.2	1.37	✓	C
AKY-110R2-2/3C-2x	110	2.0	2/3"	13.1	258	≤0.02	4.4	0.26	-	C
AKY-110R2-2/3TC-2x	110	2.0	2/3"	13.1	258	≤0.02	4.4	0.26	✓	C
AKY-110R2-2/3C-4x	110	4.0	2/3"	20.9	260	≤0.01	3.5	0.10	-	C
AKY-110R2-2/3TC-4x	110	4.0	2/3"	20.9	260	≤0.01	3.5	0.10	✓	C
AKY-110R2-2/3C-6x	110	6.0	2/3"	38.5	288	≤0.03	4.3	0.09	-	C
AKY-110R2-2/3TC-6x	110	6.0	2/3"	38.5	288	≤0.03	4.3	0.09	✓	C

2/3" ULTRA-CLEAR TELECENTRIC LENS



Naming Conventions:

— Telecentric Series

AKY-65R3-2/3GTC-1x

AKI Tel WD Definition IF Mount Magnification

Coaxial Light

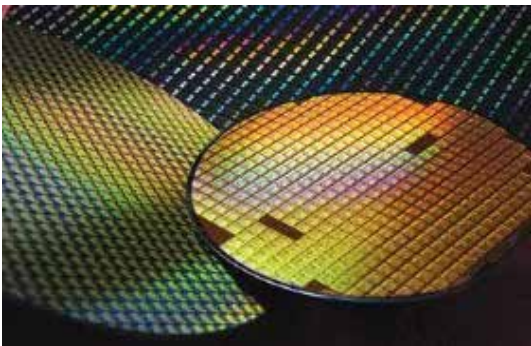
PRODUCT FEATURES

- Support 5M camera, Pixel Size 3.4μm, High Resolution Can Reach 2μm
- Very Low Distortion, Good Uniformity, Low Telecentricity
- Magnification Rate 0.1x~20x
- Adjustable Aperture, Good DOF Performance

PRODUCT ADAPTATION FIELD



IC Check



Wafer Dicing

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Mount
AKY-65R3-2/3GC-0.5x	65	0.5	2/3"	6.9-30.6	220	≤0.028	9.3-41.0	2.22-9.78	-	C
AKY-65R3-2/3GTC-0.5x	65	0.5	2/3"	6.9-30.6	220	≤0.028	9.3-41.0	2.22-9.78	✓	C
AKY-65R3-2/3GC-1.0x	65	1.0	2/3"	7.0-28.3	167.3	≤0.036	4.7-19	0.56-2.27	-	C
AKY-65R3-2/3GTC-1.0x	65	1.0	2/3"	7.0-28.3	167.3	≤0.035	4.7-19	0.56-2.27	✓	C
AKY-65R3-2/3GC-2.0x	65	2.0	2/3"	7.2-45.6	184	≤0.021	2.4-15.3	0.14-0.91	-	C
AKY-65R3-2/3GTC-2.0x	65	2.0	2/3"	7.2-45.6	184	≤0.021	2.4-15.3	0.14-0.91	✓	C
AKY-65R3-2/3GC-3.0x	65	3.0	2/3"	9.4-46.9	209.3	≤0.012	2.1-10.5	0.08-0.42	-	C
AKY-65R3-2/3GTC-3.0x	65	3.0	2/3"	9.4-46.9	209.3	≤0.012	2.1-10.5	0.08-0.42	✓	C
AKY-65R3-2/3GC-4.0x	65	4.0	2/3"	11.9-48.9	225	≤0.029	2.0-8.2	0.06-0.24	-	C
AKY-65R3-2/3GTC-4.0x	65	4.0	2/3"	11.9-48.9	225	≤0.029	2.0-8.2	0.06-0.24	✓	C
AKY-55R5-2/3CGC-5.0x	55	5.0	2/3"	26.1	210	≤0.02	3.5	0.083	-	C
AKY-55R5-CGTC-5.0x	55	5.0	2/3"	26.1	210	≤0.02	3.5	0.083	✓	C
AKY-55R5-CGC-8.5x	55	8.5	2/3"	35.5	267	≤0.01	2.8	0.039	-	C
AKY-55R5-CGTC-8.5x	55	8.5	2/3"	35.5	267	≤0.01	2.8	0.039	✓	C
AKY-55R5-CGC-10.0x	55	10.0	2/3"	22.4	254	≤0.01	1.5	0.018	-	C
AKY-55R5-CGTC-10.0x	55	10.0	2/3"	22.4	254	≤0.01	1.5	0.018	✓	C
AKY-35R6-CGC-20.0x	37	20.0	2/3"	28.6-88.5	299	≤0.02	0.96-2.97	0.006-0.018	-	C
AKY-35R6-CGTC-20.0x	37	20.0	2/3"	28.6-88.5	299	≤0.02	0.96-2.97	0.006-0.018	✓	C
AKY-110R3-2/3GC-0.3x	110	0.3	2/3"	6.9	270	≤0.043	15.7	6.16	-	C
AKY-110R3-2/3GTC-0.3x	110	0.3	2/3"	6.9	270	≤0.043	15.7	6.16	✓	C
AKY-65R3-2/3GC-N0.5x-F6	66	0.5	2/3"	6	185	≤0.012	8	0.48	✓	C



Naming Conventions:

— Telecentric Series

AKY-110R2-43GTF-2x

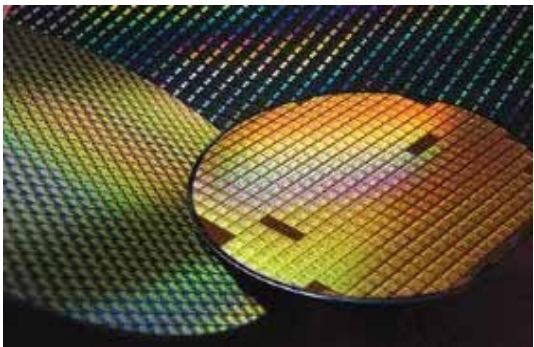
AKI Tel WD Definition IF Mount Magnification

Coaxial Light

PRODUCT FEATURES

- Large Format Design, Support 1"~43.5mm Full-Size Image
- Magnification Rate Range 0.4x~10.0x with High Performance
- Adjustable Aperture, Support Good DOF Performance Requirements
- Ultra-Low Distortion And Low Telecentricity Design, High Uniformity

PRODUCT ADAPTATION FIELD



Wafer Dicing



IC Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF (mm)	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Mount
AKY-110R2-35GF-1.5x	110	1.5	35	6.5-22.1	340.2	≤0.01	2.9-9.9	0.23-0.79	-	F
AKY-110R2-43GF-2x	110	2.0	43.5	8.0-22.4	388.0	≤0.02	2.7-7.5	0.16-0.45	-	F
AKY-110R2-43GTF-2x	110	2.0	43.5	8.0-22.4	388.0	≤0.02	2.7-7.5	0.16-0.45	✓	F
AKY-110R2-43GF-3x	110	3.0	43.5	14.8-21.9	372.8	≤0.01	3.3-4.9	0.13-0.19	-	F
AKY-110R2-43GTF-3x	110	3.0	43.5	14.8-21.9	372.8	≤0.01	3.3-4.9	0.13-0.19	✓	F
AKY-80R4-43CGTM	80	5.0	43.5	14.8-22.0	399.8	≤0.01	1.98-2.95	0.05-0.07	✓	M58
AKY-80R4-43CGM	80	5.0	43.5	14.8-22.0	399.8	≤0.01	1.98-2.95	0.05-0.07	-	M58
AKY-130R2-35GF-1x	130	1.0	35	6.6-21.8	328.0	≤0.02	4.4-14.6	0.52-1.74	-	F

1.1" ULTRA-CLEAR TELECENTRIC LENS

阿基视觉科技 (东莞) 有限公司
AKI Vision Technology (Dongguan) Co.,Ltd



Naming Conventions:

— Telecentric Series Coaxial Light

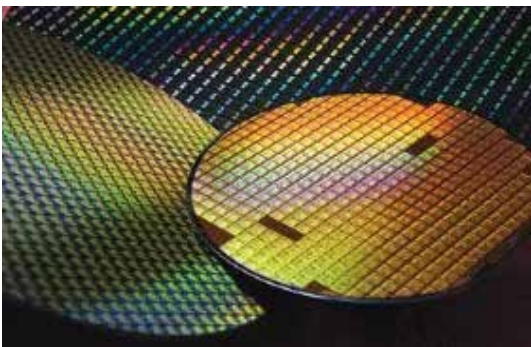
AKY-65R3-1.1GTC-2x

AKI Tel WD Definition IF Mount Magnification

PRODUCT FEATURES

- Large Format Design, Support 1.1"Image Size
- Magnification Rate Range 0.3x~4.0x
- Adjustable Aperture, Support Good DOF Performance Requirements
- Good Uniformity, High performance, Low Telecentricity
- Ultra-Low Distortion Design

PRODUCT ADAPTATION FIELD



IC Check PRODUCT PARAMETERS

Wafer Dicing

Model Name	WD (mm)	Magnification (x)	IF	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Mount
AKY-65R3-1.1GC-1x	65	1.0	1.1"	6.9-22.2	204	≤0.03	4.7-14.8	0.56-1.76	-	C
AKY-65R3-1.1GTC-1x	65	1.0	1.1"	6.9-22.2	204	≤0.03	4.7-14.8	0.56-1.76	✓	C
AKY-65R3-1.1GC-2x	65	2.0	1.1"	7.7-22.4	213.5	≤0.05	2.7-7.4	0.15-0.45	-	C
AKY-65R3-1.1GTC-2x	65	2.0	1.1"	7.7-22.4	213.5	≤0.05	2.7-7.4	0.15-0.45	✓	C
AKY-65R3-1.1GC-3x	65	3.0	1.1"	9.42-21.9	236	≤0.015	2.1-4.9	0.08-0.19	-	C
AKY-65R3-1.1GTC-3x	65	3.0	1.1"	9.42-21.9	236	≤0.015	2.1-4.9	0.08-0.19	✓	C
AKY-65R3-1.1GC-4x	65	4.0	1.1"	11.9-22.2	271	≤0.006	1.99-3.73	0.06-0.11	-	C
AKY-65R3-1.1GTC-4x	65	4.0	1.1"	11.9-22.2	271	≤0.006	1.99-3.73	0.06-0.11	✓	C
AKY-110R2-1.0C-0.5x	110	0.5	1"	7.5-22.0	298.8	≤0.05	10-29.5	2.38-7.03	-	C
AKY-110R2-1.0TC-0.5x	110	0.5	1"	7.5-22.0	298.8	≤0.05	10-29.5	2.38-7.03	✓	C
AKY-110R2-1.0C-1x	110	1.0	1"	10.6-22.1	253.8	≤0.012	7.1-14.8	0.85-1.76	-	C
AKY-110R2-1.0TC-1x	110	1.0	1"	10.6-22.1	253.8	≤0.012	7.1-14.8	0.85-1.76	✓	C
AKY-110R2-1.0C-1.5x	110	1.5	1"	10.1-22.1	275.2	≤0.012	4.5-9.9	0.36-0.79	-	C
AKY-110R2-1.0TC-1.5x	110	1.5	1"	10.1-22.1	275.2	≤0.012	4.5-9.9	0.36-0.79	✓	C
AKY-110R2-1.0C-2x	110	2.0	1"	10.1-22.4	293.9	≤0.02	3.4-7.5	0.20-0.44	-	C
AKY-110R2-1.0TC-2x	110	2.0	1"	10.1-22.4	293.9	≤0.02	3.4-7.5	0.20-0.44	✓	C
AKY-110R3-1.1GC-0.6x	110	0.6	1.1"	5.6-22.0	257	≤0.005	6.3-24.6	1.25-4.89	-	C
AKY-110R3-1.1GTC-0.6x	110	0.6	1.1"	5.6-22.0	257	≤0.005	6.3-24.6	1.25-4.89	✓	C
AKY-110R3-1.1GC-0.75x	110	0.75	1.1"	5.7-22.0	270.2	≤0.017	5.1-19.7	0.81-3.13	-	C
AKY-110R3-1.1GTC-0.75x	110	0.75	1.1"	5.7-22.0	270.2	≤0.017	5.1-19.7	0.81-3.13	✓	C
AKY-110R3-1.1GC-0.8x	110	0.8	1.1"	5.6-22.0	275	≤0.005	4.73-18.46	0.70-2.75	-	C
AKY-110R3-1.1GTC-0.8x	110	0.8	1.1"	5.6-22.0	275	≤0.005	4.73-18.46	0.70-2.75	✓	C
AKY-130R3-1.1GC-0.28x	130	0.28	1.1"	8.0-23.0	350	≤0.01	19.6-56.0	8.50-24.28	-	C
AKY-130R3-1.1GC-0.45x	130	0.45	1.1"	5.6-15.7	319	≤0.005	8.5-24	2.30-6.50	-	C
AKY-130R3-1.1GTC-0.45x	130	0.45	1.1"	5.6-15.7	319	≤0.005	8.5-24	2.30-6.50	✓	C



Naming Conventions:

— Telecentric Series

AKY-80R2-2/3C-4x-IR

AKI Tel WD Definition IF Mount Infrared

PRODUCT FEATURES

- IR Coating , Wave Length Cover 700nm~1700nm
- High Resolution Design
- Good Uniformity, Low Telecentricity

PRODUCT ADAPTATION FIELD



3C Application



Mini LED Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF	Effective Fno	O/I (mm)	TV Distortion (%)	Resolution (μm)	DOF (mm)	Coaxial Light	Wavelength (nm)	Mount
AKY-18R2-2/3GTC-7.5x-IR	18	7.5	2/3"	18.7	182	≤0.01	3	0.03	✓	700-1200	C
AKY-30R2-2/3TC-1.5x-IR	30	1.5	2/3"	8.7	182	≤0.01	7	0.31	✓	700-1200	C
AKY-65R3-2/3GTC-4x-IR	65	4.0	2/3"	11.7	225	≤0.01	3.5	0.06	✓	700-1200	C
AKY-80R2-2/3C-4x-IR	80	4.0	2/3"	13.3	229	≤0.01	4	0.067	-	700-1200	C
AKY-80R2-2/3TC-4x-IR	80	4.0	2/3"	13.3	229	≤0.01	4	0.067	✓	700-1200	C
AKY-80R2-2/3C-6x-IR	80	6.0	2/3"	20.0	250	≤0.01	4	0.044	-	700-1200	C
AKY-80R2-2/3TC-6x-IR	80	6.0	2/3"	20.0	250	≤0.01	4	0.044	✓	700-1200	C
AKY-80R2-2/3C-8x-IR	80	8.0	2/3"	26.6	272	≤0.01	4	0.033	-	700-1200	C
AKY-80R2-2/3TC-8x-IR	80	8.0	2/3"	26.6	272	≤0.01	4	0.033	✓	700-1200	C
AKY-110R3-1.1GTC-1.5x-IR	110	1.5	1.1"	10.0-22.0	275	≤0.01	8.0-17.6	0.36-0.78	✓	700-1200	C
AKY-110R3-1.1GC-1.5x-IR	110	1.5	1.1"	10.0-22.0	275	≤0.01	8.0-17.6	0.36-0.78	-	700-1200	C
AKY-210R2-2/3TC-1x-IR	210	1.0	1/2"	12.5	440	≤0.01	16	1	✓	900-1100	C
AKY-210R2-2/3TC-8x-IR	210	8.0	1.1"	50.0	500	≤0.01	8	0.306	-	900-1100	C
AKY-220R2-2/3C-4x-IR	220	4.0	2/3"	23.5	417	≤0.01	9.68	0.12	-	800-1500	C
AKY-65R2-2/3TC-1.5x-SWIR	65	1.5	2/3"	10.3	158	≤0.01	13	0.37	✓	900-1700	C
AKY-110R2-43GF-2x-SWIR	110	2.0	43mm	8.0-20.1	389	≤0.10	7.6-19.0	0.16-0.40	-	900-1700	F
AKY-110R2-43GTF-2x-SWIR	110	2.0	43mm	8.0-20.1	389	≤0.10	7.6-19.0	0.16-0.40	✓	900-1700	F
AKY-110R2-43GF-2.5x-SWIR	110	2.5	43mm	12.5-31.7	360	≤0.60	9.45-24.0	0.16-0.41	-	900-1700	F
AKY-110R2-43GTF-2.5x-SWIR	110	2.5	43mm	12.5-31.7	360	≤0.61	9.45-24.0	0.16-0.41	✓	900-1700	F



Naming Conventions:

— Line Scan Series

AKX-35R2-43M

AKI Line scan EFL Definition IF Mount

PRODUCT FEATURES

- Ultra-Low Distortion Design, AR/NIR Coating
- Magnification Rate Is Wide and Adjustable, Support Different Type Mount
- High Resolution 130lp/mm, support 3.5μm pixel And Large Format Camera
- Focus Length Range From 28mm ~ 135mm Can Support Most of Requirements

PRODUCT ADAPTATION FIELD



FPD Check



Printing/New Energy Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF (mm)	Fno	EFL (mm)	TV Distortion (%)	MTF (lp/mm)	Pixel (μm)	Lens Size (mm)	Mount	Adaptation Camera
AKX-28R2-35M	200	0.13	35	2.8-22	28	≤1.20	130	3.8	φ55x70	M39	8k 5μm/29M
AKX-35R2-43M	1000	0.04	43	2.8-22	35	≤0.60	130	3.8	φ45x74	M39	8k 5μm/29M
AKX-40R2-43M	200	0.30	43	4.0-22	40	≤0.07	130	3.8	φ46x75	M39	8k 5μm/29M
AKX-55R2-62M	216	0.30	62.5	4.0-22	55	≤0.08	130	3.8	φ43x39	M39	12k 5μm/47M
AKX-60R2-67M	270	0.25	67	4.0-22	60	≤0.10	130	3.8	φ43x39	M39	16k 3.5μm/47M
AKX-65R2-62M	300	0.40	62.5	4.0-22	65	≤0.10	130	3.8	φ45x25	M39	12k 5μm/47M
AKX-80R2-62M	1000	0.09	62.5	4.0-22	80	≤0.10	130	3.8	φ45x53	M39	12k 5μm/47M
AKX-100R2-82M	400	0.40	82	4.0-22	100	≤0.10	130	3.8	φ55x60	M39	16k 5μm/151M
AKX-80R2-82LM	223-477	0.2-0.5	82	4.0-22	84.6	≤0.08	100	5	φ45x77	M39	16k 5μm/151M
AKX-80R2-82HM	133-220	0.5-1.0	82	4.0-22	83	≤0.05	100	5	φ55x74	M39	16k 5μm/151M

INTERFACE CONVERSION

Interface Model	Extension Ring	Extension Ring	Extension Ring	More
AKJ-F	-	-	-	-
AKJ-M42	AKJ-M42L5	AKJ-M42L10	AKJ-M42L20	Customizing
AKJ-M58	AKJ-M58L5	AKJ-M58L10	AKJ-M58L20	Customizing
AKJ-M72	AKJ-M72L5	AKJ-M72L10	AKJ-M72L20	Customizing
AKJ-M95	-	AKJ-M95L10	AKJ-M95L20	Customizing

HIGH-MAG, HIGH-RESOLUTION LARGE-FORMAT LINE SCAN LENS



Naming Conventions:

— Line Scan Series

AKX-90R3-67V-0.2x

AKI Line scan EFL Definition IF Mount Magnification

PRODUCT FEATURES

- Ultra-Low Distortion Design, AR/ NIR Coating
- Magnification Range is Wide and Adjustable, Support Different Type Mount
- High Resolution Design: 150lp/mm, Support 3.5μm Pixel Large-Format Camera
- Focus Length Range From 28mm ~ 135mm Can Support Most of Requirements

PRODUCT ADAPTATION FIELD



Printing/New Energy Check



FPD Check

PRODUCT PARAMETERS

Model Name	WD (mm)	Magnification (x)	IF (mm)	Fno	EFL (mm)	TV Distortion (%)	MTF (lp/mm)	Pixel (μm)	Lens Size (mm)	Mount	Adaptation Camera
AKX-66R3-58V	500-750	0.086-0.11	58	4.5-22	66	≤0.17	150	3.5	φ93x133	V70	16k 3.5μm/70M
AKX-90R3-67V-0.2x	460-655	0.15-0.22	67	4.0-22	93	≤0.10	150	3.5	φ76x88	V70	16k 3.5μm/151M
AKX-90R3-67V-0.3x	310-375	0.28-0.35	67	4.0-22	93	≤0.10	150	3.5	φ76x99	V70	16k 3.5μm/151M
AKX-90R3-67V-0.45x	240-280	0.40-0.48	67	4.0-22	93	≤0.10	150	3.5	φ76x115	V70	16k 3.5μm/151M
AKX-90R3-62GV-0.7x	180	0.70	62.5	2.8-22	98	≤0.01	150	3.5	φ84x170	V74	16k 3.5μm
AKX-90R3-62GV-1.75x	96	1.75	62.5	2.8-22	98	≤0.02	150	3.5	φ84x230	V74	16k 3.5μm
AKX-110R5-84CGV-2.0x	90	2.0	84	2.9-8.0	109	≤0.10	130	3.5	φ80x378	V70	23k 3.5μm/151M
AKX-120R5-84CGV-1.67x	120	1.67	84	2.7-8.0	120	≤0.028	150	3.5	φ80x379	V70	23k 3.5μm/151M
AKX-120R5-82CGV-2.5x	105	2.5	82	2.5-22	120	≤0.05	100	3.5	φ76x420	V70	23k 3.5μm/151M
AKX-120R5-82CGV-3.5x	90	3.5	84	1.2-8.0	122.5	≤0.028	100	3.5	φ95x338	V92	23k 3.5μm/151M
AKX-135R3-82V-0.3x	328	0.3	82	3.8-22	134	≤0.10	130	5	φ76x93	V70	16k 5μm/151M
AKX-135R3-82V-0.5x	328	0.5	82	3.8-22	134	≤0.10	130	5	φ76x95	V70	16k 5μm/151M
AKX-135R3-82V-0.75x	328	0.75	82	3.8-22	134	≤0.10	130	5	φ76x92	V70	16k 5μm/151M

INTERFACE CONVERSION

Interface Model	Extension Ring	Extension Ring	Extension Ring	More
AKJ-F	-	-	-	-
AKJ-M42	AKJ-M42L5	AKJ-M42L10	AKJ-M42L20	Customizing
AKJ-M58	AKJ-M58L5	AKJ-M58L10	AKJ-M58L20	Customizing
AKJ-M72	AKJ-M72L5	AKJ-M72L10	AKJ-M72L20	Customizing
AKJ-M95	-	AKJ-M95L10	AKJ-M95L20	Customizing