

NEW

FA Lens

FA/CCTV

FA/Line Scan

FA/Macro

MORITEX

Vision Creating Value



Compact
Design

Vis/NIR
AR Coating

Vibration
Resistance



FA/Line Scan Lenses

FA/Line Scan Lenses for Machine Vision

● ML-FF Series (Fixed Focus)

- Compact Design
- Vis/NIR AR Coating

Features

- Resolving Power 130lp/mm, Resolution 5.0μm/pixel
- Full size 35mm format compatible
- Designed for common lens mount
- Connection with ML-TUBE allows flexible magnification adjustment



Specifications

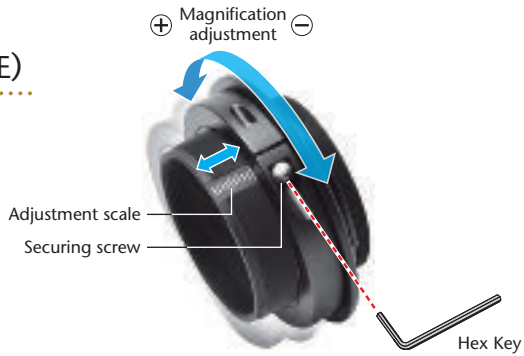
Model name	Focal Length (mm)	Fno	Image Format Size	Pixel Size / Resolving Power	WD (mm)	Maginification	AR Coating	Lens Mount	O.D. x Lens Tube Length (mm)	Weight (g)
ML-2828-35M39	28	2.8-22	35mm	5μm	∞ - 200	∞ - 0.13	Vis-NIR	M39	φ54 x 69.5	230
ML-3528-43M39	35	2.8-22	43mm	5μm	∞ - 64.4	∞ - 0.5	Vis	M39	φ45 x 73.8	200
ML-5540-62M35	55	4.0-16	62.5mm	5μm	∞ - 216	∞ - 0.3	Vis	M35	φ43 x 38.4	95
ML-6540-62M39	65	4.0-22	62.5mm	5μm	∞ - 300	∞ - 0.4	Vis-NIR	M39	φ45 x 39	110
ML-8040-62M39	80	4.0-22	62.5mm	5μm	∞ - 1000	∞ - 0.04	Vis	M39	φ45 x 52.3	200
* ML-10040-82M39	100	4.0-22	82mm	5μm	∞ - 300	∞ - 0.4	Vis-NIR	M39	φ55 x 60	230

*Made to order products

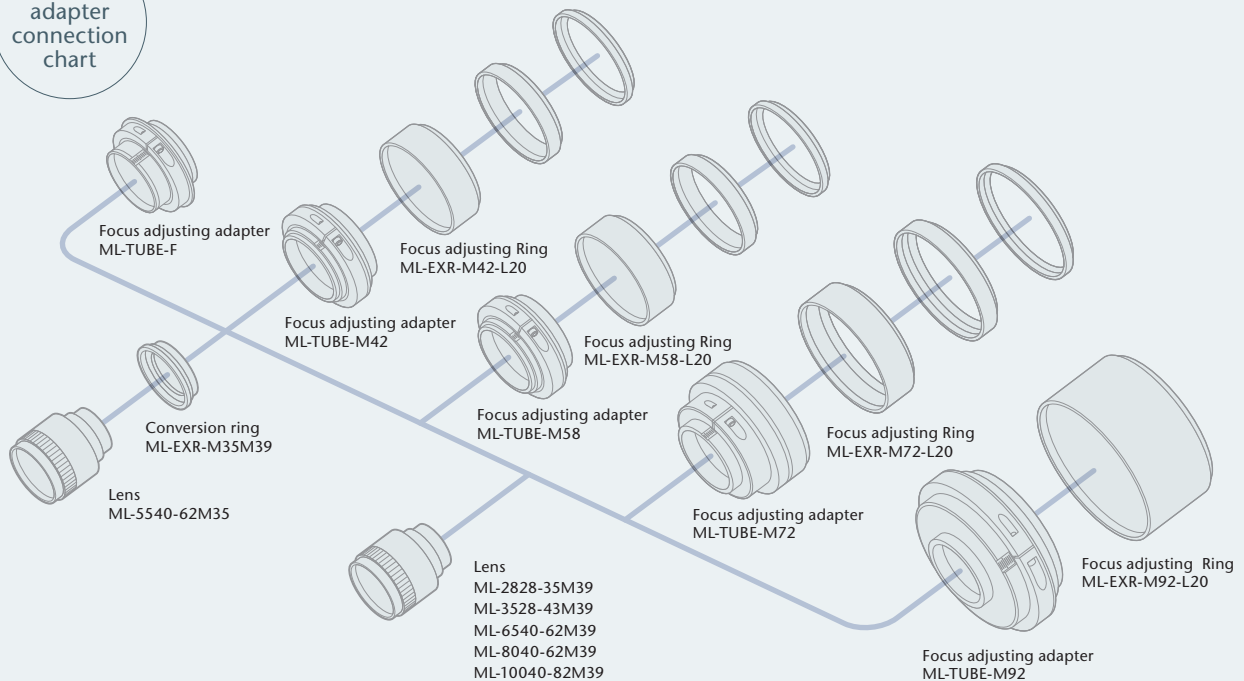
Mount adapter for ML-FF (ML-TUBE)

Features

- Selectable Helicoid method / Screw method
- Variable magnification



Mount adapter connection chart



FA/CCTV Lenses

FA/CCTV Lenses for Machine Vision

● ML-U-SR Series

- Compact Design
- Vis/NIR AR Coating

Features

- High resolving power 150lp/mm, 12MP, High resolution 3.5µm/pixel
- Large Format 1.1" compatible
- Floating mechanism adopted



Specifications

Model name	Focal Length (mm)	Fno	Image Format Size	Pixel Size / Resolving Power	Minimum Object WD (mm)	Minimum Closest magnification	FOV (H x V)	TV Distortion @500mm	Filter Size	O.D. x Lens Tube Length (mm)	Weight (g)
* ML-U0820SR-18C	8	2.0-1.6	17.6mm 1.1"	3.5µm / 150lp/mm	100	0.062	82.7° x 66.8°	<2%	M55.5 x 0.75	φ57 x 58	180
ML-U1216SR-18C	12	1.6-16			150	0.078	58.9° x 45.5°	<1.3%		φ39.5 x 57.3	160
ML-U1616SR-18C	16	1.6-16			150	0.098	46.3° x 35.3°	<0.8%		φ39.5 x 55	150
ML-U2516SR-18C	25	1.6-16			150	0.158	29.3° x 22°	<0.05%		φ39.5 x 54.6	140
ML-U3518SR-18C	35	1.8-16			195	0.190	18.4° x 14°	<0.1%		φ39.5 x 54.5	120
ML-U5022SR-18C	50	2.2-1.6			300	0.194	12° x 9°	<0.1%		φ39.5 x 58.5	140

*Made to order products

FA/CCTV Lenses for Machine Vision

● ML-M-UR Series

● ML-M-HR Series

- Compact Design
- Vis/NIR AR Coating
- Vibration Resistance

Features

- ML-M-UR : High resolving power 200lp/mm, High resolution 2.2µm/pixel
- ML-M-HR : Resolving power 130lp/mm, Resolution 5.0µm/pixel
- Format size 2/3" compatible
- Large diameter and optimum design for sensor resolution



Specifications

Model name	Focal Length (mm)	Fno	Image Format Size	Pixel Size / Resolving Power	Minimum Object WD (mm)	Minimum Closest magnification	FOV (H x V)	TV Distortion @500mm	Filter Size	O.D. x Lens Tube Length (mm)	Weight (g)
* ML-M0625UR	6	2.5-16	11mm 2/3"	2.2µm / 200lp/mm	100	0.053	75.7° x 62.7°	<2.8%	M37.5 x 0.5	φ39 x 50	70
ML-M0822UR	8	2.2-16			100	0.071	59.1° x 45.5°	<1.9%		φ29.5 x 37.8	60
ML-M1218UR	12	1.8-16			150	0.075	39.4° x 30°	<1.2%		φ29.5 x 40.1	60
ML-M1616UR	16	1.6-16			150	0.095	29.2° x 22.4°	<0.5%		φ29.5 x 37	50
ML-M2516UR	25	1.6-16			150	0.152	18° x 13°	<0.07%		φ29.5 x 38.5	50
ML-M3520UR	35	2.0-16			200	0.167	12.6° x 9.76°	<0.1%		φ29.5 x 38.2	50
ML-M5025UR	50	2.5-16			300	0.194	7.9° x 5.9°	<0.1%		φ29.5 x 59.4	70

ML-M0818HR	8	1.8-16	11mm 2/3"	5µm / 130lp/mm	100	0.071	58.2° x 44.7°	<1.2%	M25.5 x 0.5	φ29.5 x 36	60
ML-M1218HR	12	1.8-16			150	0.071	40.3° x 30.7°	<0.8%		φ29.5 x 34	50
ML-M1618HR	16	1.8-16			200	0.079	30.8° x 23.3°	<0.2%		φ29.5 x 33	50
ML-M2518HR	25	1.8-16			200	0.113	20.0° x 15.0°	<0.1%		φ29.5 x 33	50
ML-M3520HR	35	2.0-16			200	0.160	14.4° x 10.8°	<0.1%		φ29.5 x 35.8	40
ML-M5025HR	50	2.5-16			300	0.160	10.1° x 7.5°	<0.8%		φ29.5 x 51.7	50

*Made to order products

FA/CCTV Lenses for ITS

● ML-T Series

- Compact Design
- Vis/NIR AR Coating
- Vibration Resistance

Features

- High resolving power 150lp/mm, 12MP, High resolution 3.5µm/pixel
- Large format 1.1" compatible
- Long Working Distance
- Day&Night compatible



Specifications

Model name	Focal Length (mm)	Fno	Image Format Size	Pixel Size / Resolving Power	Minimum WD (Ex. ring)	Minimum Closest magnification	FOV (H x V)	TV Distortion @WD2m	Filter Size	O.D. x Lens Tube Length (mm)	Weight (g)
ML-T1628-18C	16	2.8-16	18.5mm 1.1"	3.5µm / 150lp/mm	2m (1m)	0.008	19° x 24.6°	<0.3%	M30.5 x 0.5	φ32 x 42.7	70
ML-T2028-18C	20	2.8-16				0.010	40.7° x 31°	<0.2%		φ32 x 39.8	67
ML-T2528-18C	25	2.8-16				0.012	32.9° x 25°	<0.2%		φ32 x 38.6	68
ML-T3528-18C	35	2.8-16				0.017	23.7° x 17.9°	<0.2%		φ32 x 46.9	76
ML-T5028-18C	50	2.8-16				0.025	16.6° x 12.4°	<0.2%		φ32 x 58	83
ML-T7528-18C	75	2.8-16				0.039	10.5° x 7.9°	<0.2%		M35.5 x 0.5	φ38 x 64.7

FA/Macro Lenses

FA/Macro Lenses for Robot Vision

● ML-MC-G Series

- Compact Design
- Vis/NIR AR Coating
- Vibration Resistance

Features

- High resolving power 150lp/mm, 12MP, High resolution 3.5µm/pixel
- Large format 1.1" compatible
- Double-lock method focusing function
- Fixed aperture 4 types available (Fno 2.8, 4.0, 5.6, 8.0)



Specifications

Model name	Focal Length (mm)	Fno	Image Format Size	Pixel Size / Resolving Power	Minimum WD (Ex. ring)	magnification	TV Distortion @WD2m	Filter Size	O.D. x Lens Tube Length (mm)	Weight (g)
ML-MC1228-18C-G	12	2.8	17.6mm 1.1"	3.5µm / 150lp/mm	1000-500mm (200mm)	0.012-0.024	<2%	M30.5 x 0.5	φ34 x 80	100
ML-MC1628-18C-G	16	2.8				0.016-0.032	<1%		φ34 x 53	70
ML-MC2528-18C-G	25	2.8				0.024-0.048	<0.2%		φ34 x 38.2	65
ML-MC3528-18C-G	35	2.8				0.035-0.068	<0.2%		φ34 x 46.4	70
ML-MC5028-18C-G	50	2.8				0.050-0.10	<0.25%		φ34 x 58.3	75
ML-MC7528-18C-G	75	2.8				0.082-0.18	<0.15%		φ38 x 75	125

FA/Macro Lenses for Machine Vision

● ML-MC43-HR-22C

Features

- Resolving power 130lp/mm, Resolution 5.0µm/pixel
- Format size 4/3" compatible

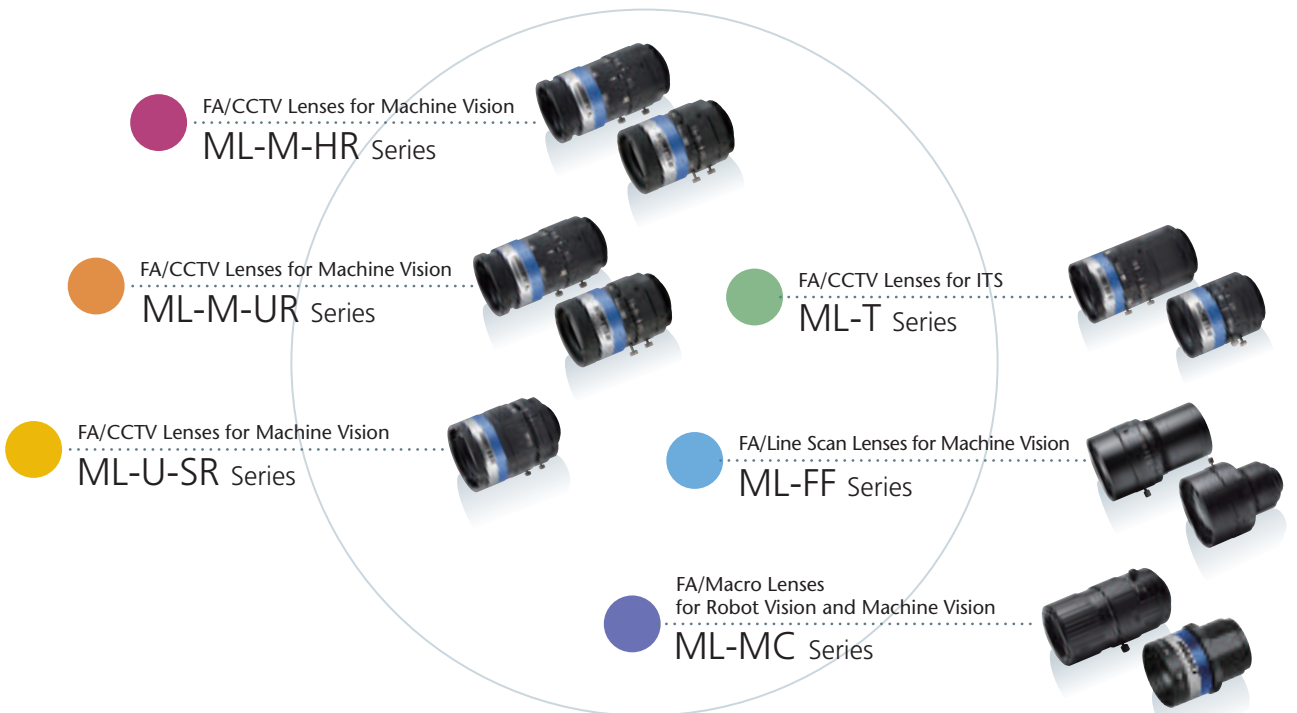
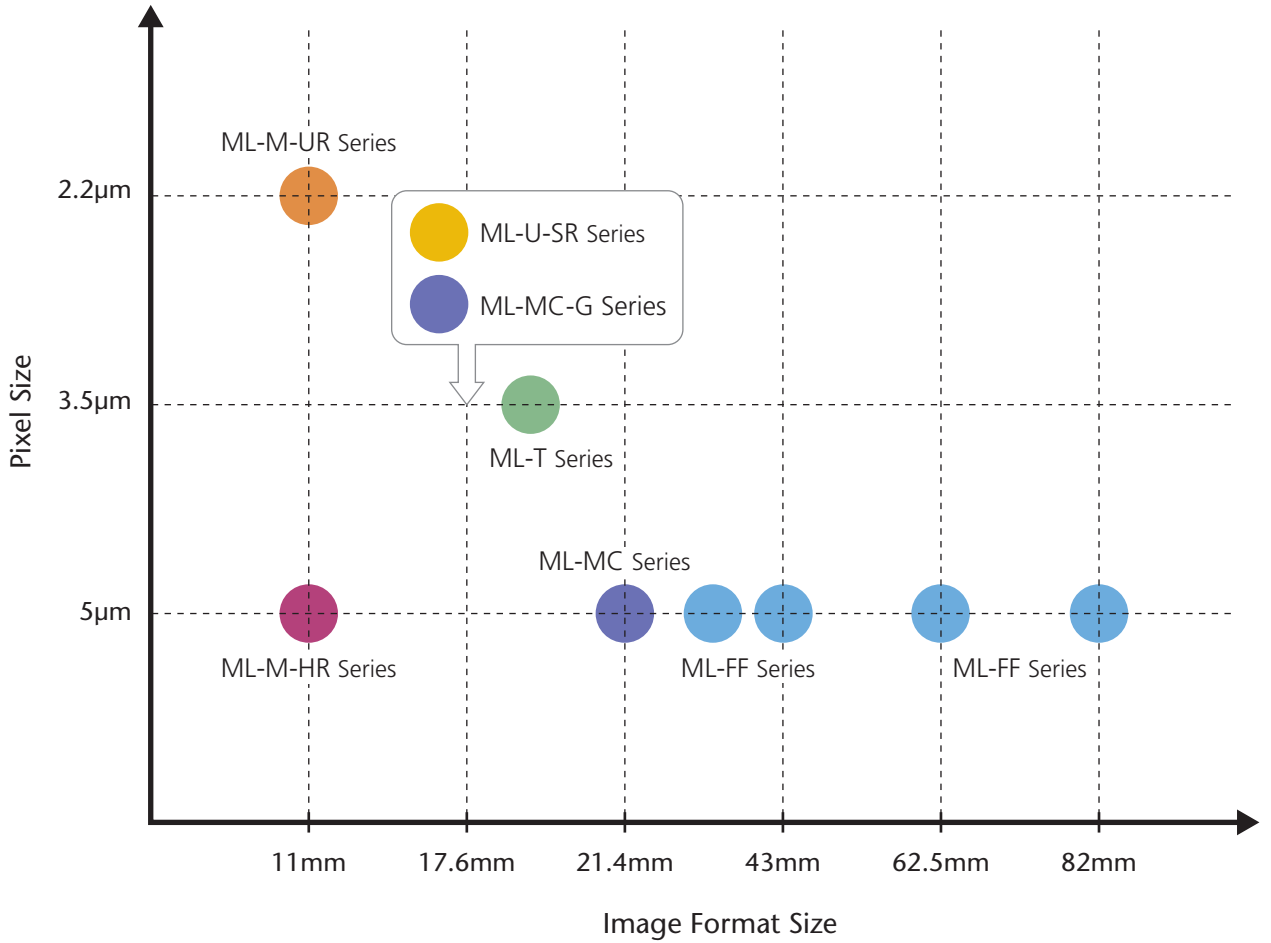


Specifications

Model name	Magnification	O/I	WD (mm)	Resolution (µm)	Depth of Field (mm)	Fno	TV Distortion	Image Format Size	O.D. x Lens Tube Length (mm)	Weight (g)
ML-MC43-HR-22C	x0.3	239.5	143.5	10.1 - 46.5	4 - 18.5	4.5 - 20.8	<0.07%	22mm 4/3"	φ44 x 78.5	180
	x0.65	179.2	83.2	5.9 - 27.6	1.09 - 5.1	5.8 - 26.7	<0.02%			
	x1	171.2	75.2	4.7 - 21.7	0.56 - 2.6	7 - 32.4	<0.01%			

FA lens products

Positioning



Model Name Description

FA/Line Lens



FA/Macro Lens



FA/CCTV Lens



M = Up to 2/3"
(including 1/1.8" 1/2" 1/3")

U = Larger than 1"
(including 1.1")

UR = 2.2µm
SR = 3.5µm
HR = 5.0µm

16C = 16mm (1")
C mount
18C = 18mm (1.1")
C mount



Vibration Resistant FA/CCTV Lenses

ML-T18C-G Series



- High resolving power 150lp/mm, 12MP
High resolution 3.5µm/pixel
- Vibration resistance 15G compatible

Auto-Iris/Focus motorized Lenses

ML-T18C-M Series




- High resolving power 150lp/mm, 12MP
High resolution 3.5µm/pixel
- Day&Night compatible



Lens Selector 

You can find the best lens to meet your requirement !



Illumination Selector 

You can find the best item to meet your requirement !

Asia

MORITEX Corporation

3-13-45 Senzui, Asaka-shi,
Saitama, 351-0024
Japan
Phone: +81 (0)48-218-2525
Fax: +81 (0)48-462-6713
E-mail: moritex.sales@moritex.com
URL: www.moritex.com

MORITEX Technologies Co., Ltd.

Shenzhen office

No.20, Guiri Road, Daping Village,
Guanlan, Longhua New District
Shenzhen, 518110
China
Phone: +86-755-2798-8282
Fax: +86-755-2798-8575
E-mail: sales.china@moritex.com

MORITEX Asia Pacific Pte. Ltd.

60 Paya Lebar Road #06-31
Singapore 409051
Phone: +65-6898-0835
Fax: +65-6898-0836
E-mail: Sales.AP@moritex.com

Suzhou office

Room 715, Building No.1,
Rongsheng Business Center,
No.135 Wangdun Road,
Suzhou Industrial Park,
Suzhou, 215028
China
Phone: +86-188-9693-0902
+86-180-6803-5372

North America

MORITEX North America, Inc.

6862 Santa Teresa Blvd.
San Jose, CA 95119
USA
Phone: +1 (408)363-2100
Fax: +1 (408)363-9980
E-mail: machine.vision@moritex.com

Europe

Europe Representative Office

Muhlbachstr. 20 82229 Seefeld
Germany
E-mail: inf.eu@moritex.com

MORITEX
Vision Creating Value