

FUJINON
FUJIFILM

2010 CCTV LENSES

MEGAPIXEL

24/7 SECURITY

**HIGH QUALITY
SURVEILLANCE**

FA/MACHINE VISION



MEGAPIXEL

- *Ultra High Resolution*
- *Day/Night for 24/7 Security*
- *Broad Focal Range for extreme flexibility*
- *Compact Size to fit into smaller applications*
- *Metal Mounts for rugged & durable requirements*
- *Locking Screws to ensure constant focus*



VARI-FOCAL

- *Day/Night for 24/7 Security*
- *Aspherical Technology for sharp optical performance*
- *Metal Mounts for rugged & durable requirements*
- *Broad Focal Range for extreme flexibility*
- *Fast F-Stops to enhance low light performance*
- *Compact Size to fit into smaller applications*
- *Locking Screws to ensure constant focus*



HIGH QUALITY ZOOM

- *Megapixel for Ultra High Resolution*
- *Day/Night for 24/7 Security*
- *Digi Power RS-232 Compatible*
- *Aspherical Technology for sharp optical performance*
- *3CCD Compatible with high performance capability*
- *Broad Focal Range for extreme flexibility*
- *Fast F-Stops to enhance low light performance*

MACHINE VISION

- *5 Megapixel for Ultra High Resolution*
- *Inexpensive 1.5 Megapixel High Resolution*
- *Metal Barrel for rugged applications*
- *Close M.O.D. for close-up applications*
- *Locking Screws to ensure constant focus*
- *Versatile Line-up and a broad range of models*



Aspheric Technology makes a **Mega** difference.



F1.3 / 2.2-6mm
Ultra wide
field of view

F1.3 / 2.8-6mm
For Day/Night
24/7 Security

DAY/NIGHT

F1.2 / 2.8-8mm
Standard type
for common use

F1.4 / 2.8-12mm
Middle range
for broad
application

F1.5 / 15-50mm
Telephoto type for
long distance
surveillance

F1.4 / 3.8-13mm
F1.4/8-80mm
1/2" Format

F1.6 / 8-80mm
1/2" Format

DAY/NIGHT

Image Format	Focal Length	Iris Range	Iris Operation	Model Number	Zoom Ratio	Lens Mount
MEGAPIXEL VARI-FOCAL LENS SERIES						
AT	1/3"	2.2-6mm	F1.3	Manual DC Auto	YV2.7x2.2SA-2 YV2.7x2.2SA-SA2L*	2.7x CS
DAY/NIGHT AT	1/3"	2.8-6mm	F1.3	Manual DC Auto	YV2.1x2.8SR4A-2 YV2.1x2.8SR4A-SA2L*	2.1x CS
AT	1/3"	2.8-8mm	F1.2	Manual DC Auto	YV2.8x2.8SA-2 YV2.8x2.8SA-SA2L*	2.8x CS
NEW! AT	1/3"	2.8-10mm	F1.3	DC Auto	YV3.6x2.8SA	3.6x ø19mm board
NEW! AT DAY/NIGHT	1/3"	2.8-10mm	F1.3	DC Auto	YV3.6x2.8SR4A	3.6x ø19mm board
AT	1/3"	2.8-12mm	F1.4	Manual DC Auto	YV4.3x2.8SA-2 YV4.3x2.8SA-SA2L*	4.3x CS
AT	1/3"	15-50mm	F1.5	Manual DC Auto	YV3.3x15SA-2 YV3.3x15SA-SA2L*	3.3x CS
AT	1/2"	3.8-13mm	F1.4	Manual DC Auto	DV3.4x3.8SA-1 DV3.4x3.8SA-SA1L*	3.4x C
NEW! AT	1/2"	8-80mm	F1.4	Manual DC Auto	DV10x8SA-1 DV10x8SA-SA1L*	10x C
NEW! AT DAY/NIGHT	1/2"	8-80mm	F1.6	Manual DC Auto	DV10x8SR4A-1 DV10x8SR4A-SA1	10x C

MEGAPIXEL FIXED FOCAL LENS SERIES						
NEW! AT DAY/NIGHT	2/3"	35mm 50mm	F2.0 F2.8	Manual	HF35SR4A-1 HF50SR4A-1	C

* For DC Auto Iris lens, short cable lens (-SA2, 100mm cable length) is available.

Fujinon Standard for CCTV Megapixel Lenses

	Zone 1	Zone 2	
		F:Open	F:2.8
Competitor Megapixel Lens	1.3Mega	0.4Mega	1.3Mega
Fujinon Megapixel Lens	3Mega	1.3Mega	3Mega

FUJINON presents 24/7 surveillance.

2.8-8mm/F0.95
YV2.8x2.8LA-2/SA2L



DN

DN 2.9-8mm/F0.95
YV2.7x2.9LR4D-2/SA2L



1.4-3.1mm/F1.3
YV2.2x1.4A-2/SA2L



DN

DN 2.7-13.5mm/F1.3
YV5x2.7R4B-2/SA2L



5-50mm/F1.3
YV10x5B-2/SA2L

DN



DN 5-50mm/F1.6
YV10x5HR4A-2/SA2L



2.5-6mm/F1.2
YV2.4x2.5A-2/SA2L

DN



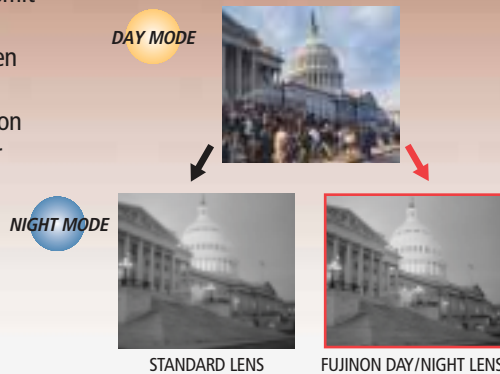
15-50mm/F1.5
YV3.3x15HR4A-SA2L

FUJINON Lens Series for Day/Night Cameras

Day/Night cameras, which are becoming an integral part of the security market, depend on lenses that can transmit light in the 700nm-1000nm range when used at night.

Standard lenses transmit light in the 400nm-700nm range, so when used in a 24-hour surveillance application results in a blurred or out of focus image.

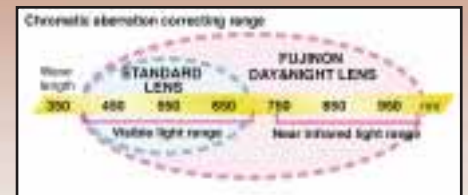
* Pictures shown represent images.



Refocusing Not Required for 24-Hour Continuous Surveillance

As a world leader in optical design we have created a Day/Night lens line that utilizes specialized lens elements making it possible for 24-hour continuous surveillance without the need for re-focusing.

The lenses also maintain extremely low chromatic aberration that provides high quality images from visible light (day time) to near infrared (night time) applications.



When a camera which serves day and night is used with a lens exclusively for day light (Visible rays), it accepts visible rays in the daytime and near infrared rays at night.

The two kinds of rays with different wavelengths form an image in focus at a different focal point, and produce out of focus images unless it is adjusted in the evening or at dawn.

Image Format	Focal Length	Iris Range	Iris Operation	Model Number	Zoom Ratio	Lens Mount
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DAY/NIGHT and ASPHERIC VARI-FOCAL LENS SERIES

AI DN	1/3"	DN 2.7-13.5mm	F1.3 - C F1.3 - T360	Manual DC Auto	YV5x2.7R4B-2 YV5x2.7R4B-SA2L*	5x	CS
AI DN	1/3"	DN 2.9-8mm	F0.95 - C F0.95 - T360	Manual DC Auto	YV2.7x2.9LR4D-2 YV2.7x2.9LR4D-SA2L*	2.7x	CS
AI DN	1/3"	DN 5-50mm	F1.6 - C F1.6 - T360	Manual DC Auto	YV10x5HR4A-2 YV10x5HR4A-SA2L*	10x	CS
AI DN	1/3"	DN 15-50mm	F1.5 - T360 Small Size	DC Auto	YV3.3x15HR4A-SA2L*	3.3x	CS
AI DN	1/2"	DN 3.6-18mm	F1.8 - C F1.8 - T360	Manual DC Auto	DV5x3.6R4B-2 DV5x3.6R4B-SA2L*	5x	CS

STANDARD VARI-FOCAL LENS SERIES

AI	1/3"	2.5-6mm	F1.2 - C F1.2 - T360	Manual DC Auto	YV2.4x2.5A-2 YV2.4x2.5A-SA2L*	2.4x	CS
AI DN	1/3"	2.7-13.5mm	F1.3 - C F1.3 - T360	Manual DC Auto	YV5x2.7R4B-2 YV5x2.7R4B-SA2L*	5x	CS
AI	1/3"	2.8-8mm	F0.95 - C F0.95 - T360	Manual DC Auto	YV2.8x2.8LA-2 YV2.8x2.8LA-SA2L*	2.8x	CS
AI	1/3"	5-50mm	F1.3 - C F1.3 - T360	Manual DC Auto	YV10x5B-2 YV10x5B-SA2L*	10x	CS
AI DN	1/2"	3.6-18mm	F1.8 - C F1.8 - T360	Manual DC Auto	DV5x3.6R4B-2 DV5x3.6R4B-SA2L*	5x	CS
AI	1/2"	7-70mm	F1.8 - C F1.8 - T360	Manual DC Auto	DV10x7B-2 DV10x7B-SA2L*	10x	CS

FISH EYE VARI-FOCAL LENS SERIES

	1/3"	1.4-3.1mm	F1.4 - C F1.4 - T360	Manual DC Auto	YV2.2x1.4A-2 YV2.2x1.4A-SA2L*	2.2x	CS
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FIXED FOCAL LENGTH LENS SERIES

	1/3"	2.8mm	F1.3 - C F1.3 - T360	Manual DC Auto	YF2.8A-2 YF2.8A-SA2LB*		CS
	1/3"	4mm	F1.2 - C F1.2 - T360	Manual DC Auto	YF4A-2 YF4A-SA2LB*		CS
	1/3"	8mm	F1.2 - C F1.2 - T360	Manual DC Auto	YF8A-2 YF8A-SA2LB*		CS
	1/3"	16mm	F1.4 - C F1.4 - T125	Manual DC Auto	YF16A-2 YF16A-SA2L*		CS

Fujinon offers Day/Night Technology at no additional cost. These lenses can be used with standard camera.

* For DC Auto Iris lens, short cable lens (-SA2, 100mm cable length) is available.

Feel secure with Fujinon.

The first name in lenses should be your first choice in homeland security.

Whether it's for Day or Night, long or intermediate-range surveillance or even if you need megapixel resolution, it pays to have Fujinon on your team. Our full range of zoom lenses covers the widest array of security applications in the industry.

When it really counts... count on Fujinon.



D60x12.5



D60x16.7
2 Megapixel
Coming soon

NEW!



D32x10/D32x15.6
1.3 Megapixel

NEW!

Fujinon offers a wide range of products designed specifically to meet the extensive needs of today's surveillance market. The growing demand for long range surveillance has challenged our engineers to come up with solutions for areas where surveillance needs are paramount. Fujinon offers high performance zoom lenses that cover such applications as seaports, airports, border concerns. Fujinon has also raised the bar to offer Day/Night & RS-232 serial control for some of our high end zoom lenses.

Fujinon Day/Night Feature

Fujinon's Day/Night zoom lens offers 24/7 surveillance working with an IR illuminator. Our Day/Night zoom lens has a selectable wavelength feature making it a very flexible tool when working with an IR illuminator. Why settle for less than the best quality when 24/7 surveillance is crucial?

Fujinon Megapixel Solution

Fujinon has introduced the industries' only megapixel rated zoom lenses! See targets over a mile away with megapixel resolution. We at Fujinon work to fulfill the demands for the surveillance market.

HIGH QUALITY ZOOM

Model Number		Specification		Iris Operation	M.O.D. (M)	
C55x20 Series		1" Format, 20-1100mm (40-2200mm with 2x) F3.0-T1500, Built-in 2x Extender				
DN	C55x20R2Q-EP1B	Day/Night Version, Servo & RS232C control, Iris Override		Video	2.4	
	C55x20P-EP1B	Standard Version, Servo, Iris Override		Video	2.4	
D60x16.7 Series		1/2" Format, 16.7-1000mm (33.3-2000mm with 2x) F3.8-T1500, Built-in 2x Extender				
Coming Soon 2MP	DN D60x16.7SR4DE-ZP1	2Megapixel, Day/Night Version, Servo & RS232C control, Iris Override		Video	5.0	
Coming Soon 2MP	DN D60x16.7SR4DE-V41	2Megapixel, Day/Night Version, Motorized, Iris Override		Video	5.0	
Option: Auto Focus, Image Stabilization						
D60x12.5 Series		1/2" Format, 12.5-750mm (25-1500mm with 2x) F3.8-T3000, Built-in 2x Extender				
DN	D60x12.5R3DE-ZP1	Day/Night Version, Servo & RS232C control, Iris Override		Video	5.0	
DN	D60x12.5R3DE-V41	Day/Night Version, Iris Override		Video	5.0	
DN	D60x12.5R3JE-V41	See Through Fog, Day/Night Version, Motorized, Iris Override		Video	5.0	
D32x10 Series		1/2" Format, 10-320mm, F2.5-T1500, 1.3 Megapixel				
1.3MP	DN D32x10HR4D-V41	1.3Megapixel, Day/Night Version, Iris Override		Video	3.0	
1.3MP	DN D32x10HR4D-YE1	1.3Megapixel, Day/Night Version, DC Auto Iris		DC Auto	3.0	
D32x15.6 Series		1/2" Format, 15.6-500mm, F3.9-T1500				
NEW! 1.3MP	DN D32x15.6HR4D-V41	1.3Megapixel, Day/Night Version, Motorized, Iris Override		Video	3.0	
NEW! 1.3MP	DN D32x15.6HR4D-YE1	1.3Megapixel, Day/Night Version, DC Auto Iris		DC Auto	3.0	
C22x23 Series		1" Format, 23-506mm, F3.1-T3000				
DN	C22x23R2D-ZP1	Day/Night Version, Servo & RS232C control, Iris Override		Video	3.0	
DN	C22x23R2D-V41	Day/Night Version, Iris Override		Video	3.0	
	C22x23B-V41	Standard Version, Iris Override		Video	3.0	
C22x17 Series		1" Format, 17-374mm, F2.3-T3000				
DN	C22x17R2D-ZP1	Day/Night Version, Servo & RS232C control, Iris Override		Video	3.0	
	C22x17B-Y41	Standard Version, Motorized, Preset		Video	3.0	
	C22x17B-S41	Standard Version, Motorized		Video	3.0	
	C22x17A-M41	Standard Version, Motorized		Motorized	3.0	
H22x11.5 Series		2/3" Format, 11.5-253mm, F1.6-T2000				
DN	H22x11.5R2D-ZP1	Day/Night Version, Servo & RS232C control, Iris Override		Video	3.0	
	H22x11.5B-Y41	Standard Version, Motorized, Preset		Video	3.0	
	H22x11.5A-M41	Standard Version, Motorized		Motorized	3.0	
T17x5 Series		1/3" Format, 3CCD, 5-85mm, F1.4-F16				
NEW!	T17x5DA-R11	Standard Version, Servo control, Iris Override		Video	0.9	
S17x6.6 Series		1/2" Format, 3CCD, 6.6-114mm, F1.5-F16				
NEW!	S17x6.6DA-R11	Standard Version, Servo control, Iris Override		Video	0.9	
Image Format	Focal Length	Iris Range	Iris Operation	Model Number	Zoom Ratio	Lens Mount
DC AUTO IRIS ZOOM LENS SERIES						
	1/3"	6-72mm	F1.5-T400	DC Auto	Y12x6A-SE2 Y12x6A-YE2 POTS	12x CS
	1/2"	8-96mm	F2.0-T400	DC Auto	D12x8A-SE2 D12x8A-YE2 POTS	12x CS
1.3MP	1/2"	7.8-63mm	F1.2-T400	DC Auto	D8x7.8HA-SE2 D8x7.8HA-YE2 POTS	8x CS

Remark: Please confirm availability before ordering.

FUJINON. Your total solution to machine vision.

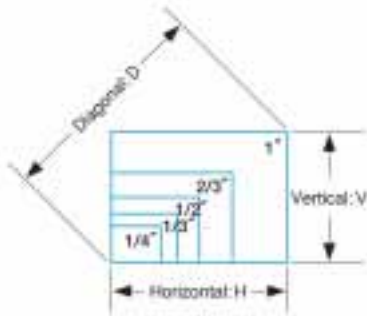


Fujinon offers a variety of 5 megapixel ultra high resolution and inexpensive 1.5 megapixel resolution fixed focal lenses, providing the flexibility needed for today's machine vision applications. All lenses incorporate locking screws to keep focus and aperture consistent when subjected to vibration.

All of our Vision Lens Series feature Megapixel Capability, Metal Barrel, Locking Screws, Close M.O.D, and Standard C-mount.

Image Sizes

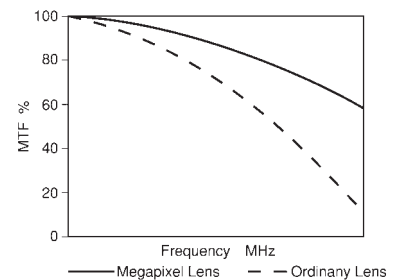
There are several types of imaging elements for cameras, with different image sizes. The typical aspect ratio of cameras is normally 4:3 (H:V).



Imaging element	Image size (mm)		
	Horizontal:H	Vertical:V	Diagonal:D
1"	12.8	9.6	16.0
2/3"	8.8	6.6	11.0
1/2"	6.4	4.8	8.0
1/3"	4.8	3.6	6.0
1/4"	3.6	2.7	4.5

Fixed focal length lens corresponding to megapixel

The chart shown at right compares MTF of an ordinary lens and a megapixel corresponding lens. As the frequency increases, the disparity in MTF becomes bigger.



Model Number	Image Format	Focal Length	Iris Range	Iris Operation	Lens Mount	M.O.D. (M)
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2/3" FORMAT, 5 MEGAPIXEL MACHINE VISION LENS SERIES

<i>5 Megapixel</i>	HF12.5SA-1	2/3"	12.5mm	F1.4 - F22	Manual	C	0.1
<i>5 Megapixel</i>	HF16SA-1	2/3"	16mm	F1.4 - F22	Manual	C	0.1
<i>5 Megapixel</i>	HF25SA-1	2/3"	25mm	F1.4 - F22	Manual	C	0.1
<i>5 Megapixel</i>	HF35SA-1	2/3"	35mm	F1.4 - F22	Manual	C	0.2
<i>5 Megapixel</i>	HF50SA-1	2/3"	50mm	F1.8 - F22	Manual	C	0.4
<i>5 Megapixel</i>	HF75SA-1	2/3"	75mm	F1.8 - F22	Manual	C	0.9

1" FORMAT, 1.5 MEGAPIXEL MACHINE VISION LENS SERIES

<i>1.5 Megapixel</i>	CF12.5HA-1	1"	12.5mm	F1.4 - F22	Manual	C	0.1
<i>1.5 Megapixel</i>	CF16HA-1	1"	16mm	F1.4 - F22	Manual	C	0.1
<i>1.5 Megapixel</i>	CF25HA-1	1"	25mm	F1.4 - F22	Manual	C	0.1
<i>1.5 Megapixel</i>	CF35HA-1	1"	35mm	F1.4 - F22	Manual	C	0.2
<i>1.5 Megapixel</i>	CF50HA-1	1"	50mm	F1.8 - F22	Manual	C	0.4
<i>1.5 Megapixel</i>	CF75HA-1	1"	75mm	F1.8 - F22	Manual	C	0.9

ECONOMICAL 1.5 MEGAPIXEL MACHINE VISION LENS SERIES

<i>1.5 Megapixel</i>	DF6HA-1B	1/2"	6mm	F1.2 - F16	Manual	C	0.1
<i>1.5 Megapixel</i>	HF9HA-1B	2/3"	9mm	F1.4 - F16	Manual	C	0.1
<i>1.5 Megapixel</i>	HF12.5HA-1B	2/3"	12.5mm	F1.4 - F16	Manual	C	0.1
<i>1.5 Megapixel</i>	HF16HA-1B	2/3"	16mm	F1.4 - F16	Manual	C	0.1
<i>1.5 Megapixel</i>	HF25HA-1B	2/3"	25mm	F1.4 - F16	Manual	C	0.1
<i>1.5 Megapixel</i>	HF35HA-1B	2/3"	35mm	F1.6 - F22	Manual	C	0.3
<i>1.5 Megapixel</i>	HF50HA-1B	2/3"	50mm	F2.3 - F22	Manual	C	0.5
<i>1.5 Megapixel</i>	HF75HA-1B	2/3"	75mm	F2.8 - F22	Manual	C	1.1

3CCD POV LENS SERIES

<i>3CCD</i>	TF2.8DA-8	1/3"	2.8mm	F2.2 - F16 • C	Manual	C	0.1
<i>3CCD</i>	TF4DA-8	1/3"	4mm	F2.2 - F16 • C	Manual	C	0.1
<i>3CCD</i>	TF8DA-8B	1/3"	8mm	F2.2 - F16 • C	Manual	C	0.1
<i>3CCD</i>	TF15DA-8	1/3"	15mm	F2.2 - F16 • C	Manual	C	0.1
<i>3CCD</i>	TF25DA-8B	1/3"	25mm	F2.2 - F16 • C	Manual	C	0.2

5 MEGAPIXEL FISH-EYE LENS SERIES

<i>5 Megapixel</i>	FE185C046HA-1	1/2"	1.4mm	F1.4 - F16	Manual	C	0.1
<i>5 Megapixel</i>	FE185C057HA-1	2/3"	1.8mm	F1.4 - F16	Manual	C	0.1
<i>5 Megapixel</i>	FE185C086HA-1	1"	2.7mm	F1.8 - F16	Manual	C	0.2



FUJINON

FUJIFILM

The FUJINON product is the result of the integrated technologies of design, processing, assembly, and evaluation.

To provide high-quality products, we always challenge innovating new technologies.



FUJINON CORPORATION – JAPAN

FUJINON INC. – USA

In 1944, Fujinon was established to develop the optical instrument business of the Fuji Film group. With the use of unique optical technology, Fujinon has led the world wide market with the finest quality optical products.

Fujinon Inc. was established in December 1973 to provide products and service into the North and South American markets. With over 50 years experience in the manufacturing of high resolution lenses, Fujinon offers a large array of CCTV lens products including Aspherical, Day/Night Vari-Focal lenses, ultra high resolution Megapixel lenses, 3CCD specialty lenses, and a variety of high performance motorized zoom lenses.

Fujinon is dedicated to the overall quality and performance of industry leading products that offer the difference between "observation" and "identification" which is instrumental for CCTV and homeland security applications where long range flexibility is a must.

Most recent in the CCTV line-up are the expansions of our megapixel lens offerings in both vari-focal and zoom lenses. From our wide angle 120 degree horizontal field of view vari-focal to our D60, 16.7-2000mm telephoto zoom, we have the right megapixel lens for you.





Fujinon's Dedication to Manufacturing Excellence

Fujinon, a true manufacturer, maintains the highest standards for product manufacturing of CCTV lenses in the industry.

Fujinon's CCTV division is sharing fundamental technology, experience, and a higher level of quality control with the TV broadcast lens division.

In today's TV broadcast market, the highest resolution of more than 1000TV lines is required for HDTV applications. In order to achieve that level, Fujinon's design, manufacturing and quality control teams have always strived to maintain the highest standards in the industry.

Fujinon CCTV products are designed by team members who share core technology with broadcast specialists. Fujinon's CCTV products assembly and evaluation processes are based on the same standards of excellence as our broadcast division.

Thus, Fujinon CCTV products are able to achieve the best performance with the highest quality and reliability.



Fujinon's Environmental & Quality Management

Based on the international standards ISO for our production, we devote ourselves to the activities for environmental maintenance and highly advanced quality management throughout the products life cycle from design to disposal.

We maintain ISO9000 series activity and ISO14001, and we have complied with RoHS regulations since 2006.



Quality Management

- We maintain the total Quality Management and ISO 9000 series activity.
- We continue our quality activities to achieve higher goals.
- For our outstanding TQM achievement, we were awarded the most honorable Deming Prize in 1996.

Environmental Management

- We recycle used materials in developing new products.
- Our objective is zero emission of industrial waste and emissions, generated during production by recycling materials.
- In order to reduce CO₂ emissions, we have been attempting to decrease energy consumption.
- Proper procurement of safe and earth-friendly materials is our policy.



What's New at FUJINON in 2010



NEW!

3-MEGAPIXEL VARI-FOCAL LENSES

Most Complete Megapixel Offering — Widest, Clearest and Lightest Vari-Focal Lenses
Now Available in Day/Night Versions

NEW!

2-MEGAPIXEL 2000mm TELEPHOTO LENSES

D60x16.7

DAY/NIGHT



FUJINON

FUJIFILM

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