FUJIFILM
Value from Innovation

T
he 32x
and 60x Fujinon
telezoom lenses with up
to 2 megapixels resolution for excellent
Full HD quality across the entire zoom range in a compact size

Designed for 1/1.8", 1/2" and 2/3" sensors

Day Night
Full HD MP

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Full HD quality at maximum magnification

The 2 megapixel zoom lenses from Fujifilm

Traditional needs in the surveillance market are shifting from being able to “see” to being able to “identify”, especially in the long-range surveillance segment for national borders, ports, airports, sensitive facilities and remote locations. Identification is required over long distances in bright sunshine and heat, in bad weather conditions such as fog and rain and even in low light and during night. In order to achieve a higher level of identification performance in each weather and daytime, camera sensors are getting larger to deliver Full HD color images even with a minimum of available light. To get the best quality from the camera, the lenses need to support both the larger sensor sizes and the higher camera resolutions. Furthermore a long focal length is required for surveillance applications over long distances to capture details far away.

The Fujinon megapixel zoom lenses combine a large optical zoom with high resolution. Large zoom factors up to 60x magnification and long focal lengths of up to 2400 mm allow the rapid and clear recognition of each small detail even at long distances. Thanks to the 2 megapixel resolution these lenses deliver high quality pictures in Full HD across the entire zoom range and from the image center to the corners. When used on a high resolution Day/Night or low-light camera, the lenses guarantee constantly sharp pictures in daylight and IR conditions. Therefore the Fujinon megapixel zoom lenses are the first choice for long distance detection 24/7.

Fujinon. To see more is to know more.

Reliable performance around the clock in any weather

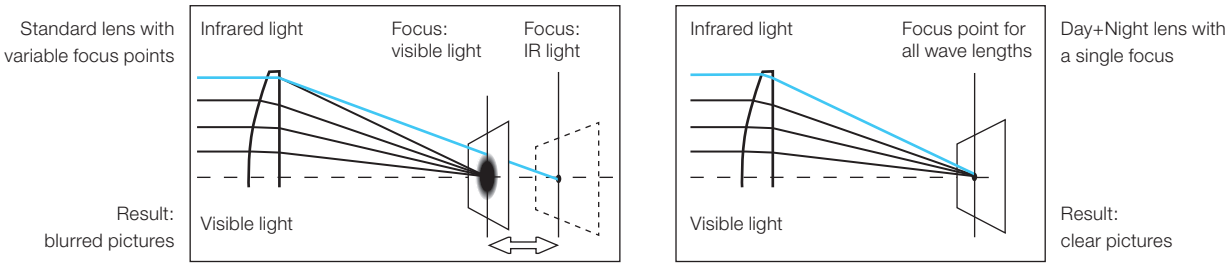
With conventional standard lenses it comes to defocusing when switching the camera from day to night mode due to different wavelengths of the visible light and (near)-infrared. The Fujinon Day+Night lenses feature IR correction and compensate for the focus shift by a combination of special optical elements, special coatings and a unique lens design. This IR correction allows wavelengths of the visible light and the infrared range to be focused on the same focal plane and keeps focused pictures by day and night without the need to refocus.

Atmospheric conditions (fog, rain or snow) can decrease the image quality as well. The shorter wavelengths of visible light cannot go through fog or rain and lead to a lack of information on the camera sensor of a surveillance system. A remote controllable integrated visible-light-cut filter cuts off the shorter wavelengths and allows capturing images only with the longer wavelengths of the infrared range. In combination with an IR camera the visible-light-cut filter creates a “de-fog” effect and enables clear image quality.

Usual view at fog or rain

Clear view with visible-light-cut filter

IR correction in Day+Night lenses



60x zoom lenses for large sensor formats

The telezoom lens series D60x16.7 and D60x20 feature 2 megapixel resolution and 60x optical zoom. The D60x16.7 lenses are designed for a maximum sensor size of 1/1.8" and cover a focal length range of f = 16.7 ~ 1000 mm while the D60x20 lenses offer a focal length range of f = 20 ~ 1200 mm on 2/3" sensors. Thanks to the built-in 2x extender the focal length can be doubled, giving clear identification and recognition of objects at 4 km distance.

Discover additional features such as

- Anti-Vibration technology: built-in optical image stabilization due to moving glass elements inside the lens. This unique optical image stabilization technology compensates for image vibration; the result is a stable picture even at long focal lengths
- Remote controllable built-in filter system: 2 types of ND selection for observation suitable at most light conditions. A visible-light-cut filter gives advantages in most critical weather conditions such as fog and rain
- Autofocus function: the one-shot autofocus system enables accurate and reliable focusing based on contrast measurement within the scene
- Precise lens control by PC: adjust zoom, focus and iris by your computer via RS232C interface

32x zoom lenses for large sensor formats

The new 32x zoom lenses impress with Full HD image quality across the entire zoom range with maximum focal lengths of up to f = 400 mm (FD32x12.5SR4A) and f = 500 mm (FH32x15.6SR4A). To respond to increasing market demands for color images even in low light, the lenses are designed for large sensor sizes of 1/1.8" and 2/3". The built-in visible-light-cut filter enables reliable performance even in fog, rain and snow. Analogue control for zoom, focus and iris is supported as well as serial control via RS232C interface for operation by PC. In addition the lenses support the widely used Pelco-D protocol.

Added value for easy operation:

- Improved back focus adjustment for simple handling during set-up
- Compact size (20 % smaller than before) to fit into a great variety of housings
- Control panels on top of the lens body enable direct access to adjustment functions – easy handling even after the installation into a housing
- Higher installation stability due to additional affixing holes downside

Technical data

Format	Product	Focal length in mm	Zoom ratio	Iris range	Angle of view (H x V)	Iris control	M.O.D. in m	Mount	Weight in kg
60x telezoom lenses									
2 megapixel Full HD resolution – motor drive zoom and focus, built-in 2x extender, built-in filter wheel (ND 1/8, ND 1/64, visible light cut and clear)									
1/1.8"	D60x16.7SR4*	16.7~1000 (1x) 33.4~2000 (2x)	60	F3.5~F16 (1x) F7~F32 (2x)	20° 51' x 15° 54' 0° 22' x 0° 17'	Auto Iris (DC) or remote	5	C	6.3
2/3"	D60x20SR4*	20~1200 (1x) 40.1~2400 (2x)	60	F3.5~F19.2 (1x) F8.4~F38.4 (2x)	23° 03' x 17° 67' 0° 42' x 0° 32'	Auto Iris (DC) or remote	5	C	6.6

*DE-V21 Zoom and focus preset function
*GE-V21 Zoom and focus preset function, IR cut filter
*DE-ZP1A PC control via RS232C, autofocus function (one shot)
*FE-ZP1C PC control via RS232C, autofocus function (one shot), optical image stabilisation

32x zoom lenses									
2 megapixel Full HD resolution – motor drive zoom and focus with preset function, PC control possible via RS232C interface, support ot Pelco-D, built-in fog filter									
1/1.8"	FD32x12.5SR4A-CV1	12.5~400	32	F3.1~F16	30° 54' x 23° 32' 01° 02' x 0° 46'	Switchable iris (Video or DC) or remote	3	C	2.8
2/3"	FH32x15.6SR4A-CV1	15.6~500	32	F3.9~F16	30° 56' x 23° 36' 01° 02' x 0° 46'	Switchable iris (Video or DC) or remote	3	C	2.9
32x zoom lenses									
1.3 megapixel resolution – motor drive for zoom and focus with preset function									
1/2"	D32x10HR4D-VX1	10~320	32	F2.5~T1500	35° 26' x 26° 59' 01° 09' x 0° 52'	Switchable iris (Video or DC) or remote	3	C	2.5
	D32x15.6HR4D-VX1	15.6~500	32	F3.9~T1500	22° 44' x 17° 11' 0° 45' x 0° 34'	Switchable iris (Video or DC) or remote	3	C	2.7

Remark: these products are discontinued. Remaining stock is available, status May 2016

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