



**Vision Light Tech**

creating optical solutions



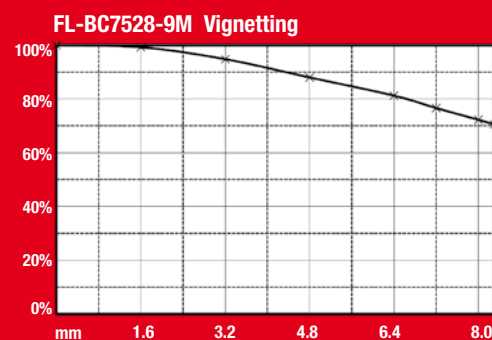
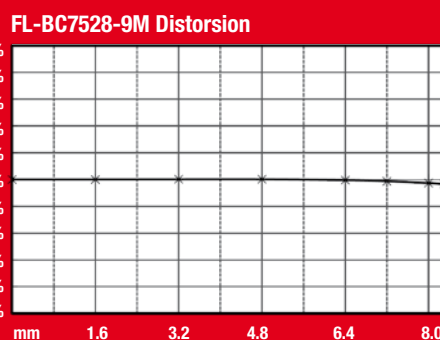
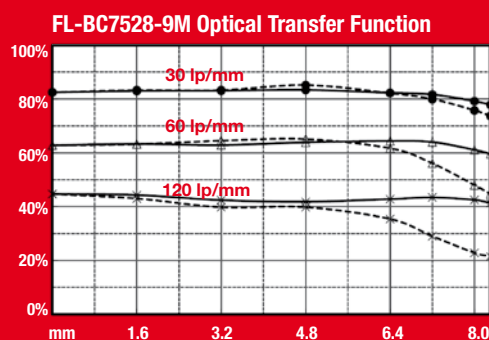
# 9 MEGAPIXEL LENSES

**for Machine Vision  
Systems up to 1" Format**

- Focal Length 25 mm, 35 mm, 50 mm, 75 mm
- Pixel Pitch 3.69  $\mu\text{m}$
- 135 lp/mm from centre to corners of the image
- Distorsion <1% to minimal 0.1%
- Even light distribution
- Locking Screws
- Ideal for integration in systems with large sensors
- Compact design, robust and durable



**RICOH**  
imagine. change.



This series of 9 megapixel lenses are developed to be installed in machine vision systems with cameras with sensors up to 1" format. The lenses are not only optimized for high image quality, but also for the use in harsh environments and durable industrial systems.

These RICOH lenses are equipped with locking screws, to prevent unintended movement of focus and iris positions.

The lens's focusing uses a floating mechanism design, reducing aberrations from an infinite to close working distance. Therefore, the lenses can also be used at distance in intelligent traffic technology.

## 9 MP High resolution and high contrast

Supports 1" format, 9 megapixel cameras. Achieves 135 lp/mm high resolution from center to periphery. Produces sharp, high-clarity images with high-contrast and low resolution loss all the way to the periphery.



## Extremely low distortion

The optical distortion of this series is generally < 1%, partially even < 0.1%, even diagonally. The resulting extremely low-distortion images are excellent for use in the image measurement field.



42 mm

## Compact design

To suit 44 mm housings used for most 9 megapixel cameras, these lenses have a 42 mm compact design ideal for installation with high performance equipment.



## Bright and clear to the periphery

Despite the small diameter of 42 mm, the vignetting has been reduced to the minimum. Combined with the 9 megapixel resolution, bright, high contrast images are achieved all the way to the edges.

Part No.	Format size	Mount	Focal length (mm)	Iris range	Min. Pixel Pitch (μm)*	M. O. D. (m)	Horizontal angle of view	Filter size (mm)	Dimensions (mm)
<b>HIGH-RESOLUTION, FOR STANDARD, IP AND MEGAPIXEL CAMERAS</b>									
FL-BC2518-9M	1"	C	25	1.8 - 16	3.69	0.1	28.8°	40.5	Ø42.0 × 57.5
FL-BC3518-9M	1"	C	35	1.8 - 22	3.69	0.15	20.7°	40.5	Ø42.0 × 60.0
FL-BC5024-9M	1"	C	50	2.4 - 22	3.69	0.2	14.6°	40.5	Ø42.0 × 69.0
FL-BC7528-9M	1"	C	75	2.8 - 32	3.69	0.25	9.8°	40.5	Ø42.0 × 81.0

\* Min. Pixel Pitch at 30% contrast (measuring on the edge of the Optic)

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