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9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

This series are developed to be used with 1” format sensor like Sony IMX183, IMX255, IMX267, IMX305 and 1.1” format sensor like Sony IMX253, IMX304.

1. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

   FL-BC1220-9M

   - 9MP (1") 12MP (1.1")
   - Format 1" (1.1")
   - f=12.0 mm
   - F2 - 16
2. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

   FL-BC1618-9M

   - 9MP (1") 12MP (1.1")
   - Format 1" (1.1")
   - f=16.0 mm
   - F1.8 - 16
3. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

   FL-BC2518-9M

   - 9MP (1") 12MP (1.1")
   - Format 1" (1.1")
   - f=25.0 mm
   - F1.8 - 16
4. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

   FL-BC3518-9M

   - 9MP (1") 12MP (1.1")
   - Format 1" (1.1")
   - f=35.0 mm
   - F1,8 - 22
5. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

   FL-BC5024-9M

   - 9MP (1") 12MP (1.1")
   - Format 1" (1.1")
   - f=50.0 mm
   - F2.4 - 22
6. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

   FL-BC7528-9M

   - 9MP (1") 12MP (1.1")
   - Format 1" (1.1")
   - f=75.0 mm

    - F2.8 - 32
7. 9 Megapixel (1”) Lenses, 12 Megapixel (1.1”) Lenses

    C99204

    - 9MP (1") 12MP (1.1")
    - Format 1" (1.1")
    - f=12.0 - 75.0 mm

The lenses are not only optimised for high image quality, but also for 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.

- Focal Lengths 12 mm, 16 mm, 25 mm, 35 mm, 50 mm, 75 mm
- Pixel Pitch 3.45 ?m
- 147 lp/mm from centre to corners of the image
- Extremely low distortion, suitable for image measurement
- Even light distribution
- Locking Screws
- Ideal for integration in systems with large sensors (Suitable for Sony IMX253 sensor)
- Compact design, robust and durable

High resolution and high contrast

Supports 1" format, 9 megapixel / 1.1" format, 12 megapixel cameras. Achieves 147 lp/mm high resolution from centre to periphery. Produces sharp, high-clarity images with high-contrast and low resolution loss all the way to the periphery.

Compact design, Ø 42 mm

To suit 44 mm housings used for most 12 megapixel cameras, these lenses have a 42 mm compact design ideal for installation with high performance equipment.

Extremely low distortion

The optical distortion of this series is generally ~ 2%, (wide angle lens FL-BC1220-9M) or less, partially even < 0.1 %. The resulting extremely low-distortion images are excellent for use in the image measurement field.

Bright and clear to the periphery

Despite the small diameter of 42 mm, vignetting has been reduced to the minimum. Combined with the 12 megapixel resolution, bright, high contrast images are achieved all the way to the edges.

Compatibility of 1” 9MP Lenses with 1.1” & 4/3” Cameras

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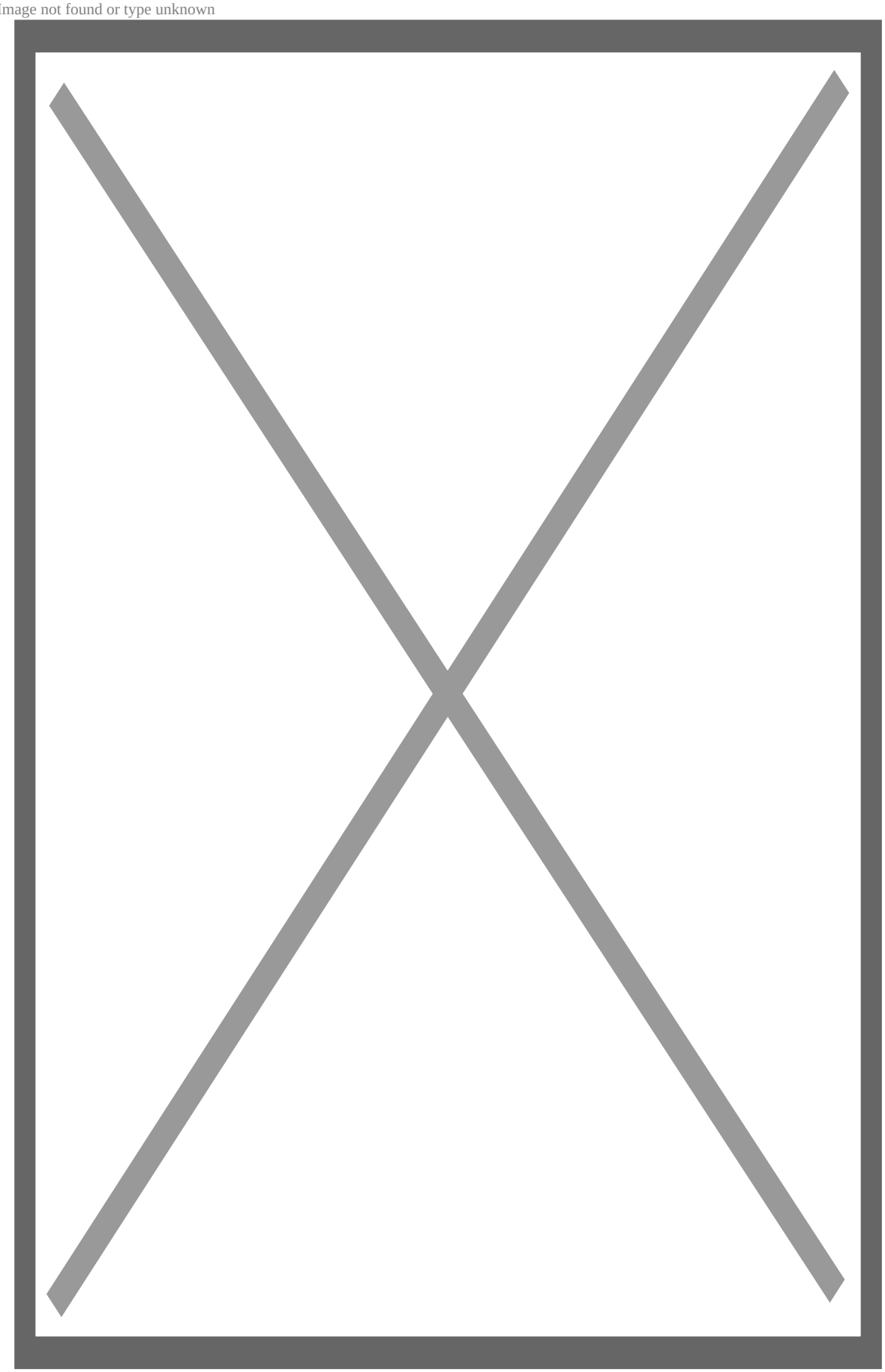

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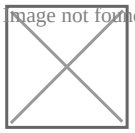
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