High Resolution IR Vari-Focal Lens

Providing Exceptional Image Quality In The Visible And Near Infrared Spectrums

Near infrared radiation refracts differently from visible light, causing blurring in video footage captured in the near infrared spectrum. The Tamron High Resolution IR Lens Series utilizes cutting-edge optical design technology and advanced low dispersion glass to converge the focal points of visible light and near infrared radiation, providing exceptionally sharp image quality 24-hours a day.

Quick Focus Comparison Between Tamron IR Lenses And Conventional Lenses

<table>
<thead>
<tr>
<th>Visible Light (with 850nm IR illuminator)</th>
<th>Near Infrared Spectrum (under 850nm illumination)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Conventional Lens</strong></td>
<td><strong>Tamron IR Lens</strong></td>
</tr>
<tr>
<td>Example of common IR sources</td>
<td><em>Halogen lamps at large construction sites, retail stores, entrance halls, etc.</em></td>
</tr>
<tr>
<td>Examples of common IR sources</td>
<td><em>Outdoor sodium vapor street lamps</em></td>
</tr>
<tr>
<td>Suggested video camera types</td>
<td><em>Day &amp; night video camera</em></td>
</tr>
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<td>Suggested video camera types</td>
<td><em>Monochrome video camera</em></td>
</tr>
</tbody>
</table>

650TV Lines Resolution

Tamron’s High Resolution IR Vari-Focal Lenses incorporate Aspherical elements and LD (Low-Dispersion) glass to provide a resolution of 650 TV lines. The resolution at the image corners has been improved by more than 50% over conventional models to provide superb image quality over the entire image field.

IR Correction Feature

The focal point of the near infrared spectrum is corrected to match that of visible light to provide exceptional image quality over the entire range of wavelengths from visible light to near infrared.

Fast Aperture of F/1.0

The fast aperture of F/1.0 enhances the overall sensitivity of Day & Night cameras, allowing operation in color mode under dimmer lighting conditions than with conventional F/1.2 and F/1.4 lenses.

Specifications and Lineup

<table>
<thead>
<tr>
<th>Model</th>
<th>13VM308ASIR II / 13VG308ASIR II 3.0-8mm F/1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>Model</td>
<td>13VM308ASIR II / 13VG308ASIR II</td>
</tr>
<tr>
<td>Image Size</td>
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</tr>
<tr>
<td>Focal Length</td>
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</tr>
<tr>
<td>Image</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td>Model</td>
<td>13VM308ASIR II / 13VG308ASIR II</td>
</tr>
<tr>
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<tr>
<td>Image</td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
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*Angle of view images are illustrative examples.*
High Resolution Vari-Focal Lens

Advanced Technology For Today's Digital Monitoring Systems

With the advance of high resolution cameras and the rapid digitization of recording systems, there is a growing demand for CCTV camera lenses that can provide high resolution across the entire screen. As a leading manufacturer of integrated optics, Tamron now offers a lineup of High Resolution Vari-Focal Lenses that meet today's demand for image resolution, while maintaining a compact and easy-to-install design.

650 TV Line Resolution

Tamron’s devotion to image quality is evident in the exceptional image resolution. Our High Resolution Vari-Focal Lenses provide a resolution of 650 TV lines over the full range of aperture sizes.

Comparison Of Image Quality At Maximum Aperture

With the advance of high resolution cameras and the rapid digitization of recording systems, there is a growing demand for CCTV cameras. Our High Resolution Vari-Focal Lenses provide a resolution of 650 TV lines over the full range of aperture sizes. Our Tamron High Resolution Lenses are equipped with a slip-mount mechanism that allows rotational adjustment of the lens after it is mounted on the camera. This allows optimal positioning of the auto-iris actuator and cable during installation.

Multiple-Layer Coatings

Multi-coating is applied to key lens surfaces to minimize ghosting and flare. The result is consistently sharp contrast and excellent image quality.

Locking Mechanism For Each Control Ring

Each control ring for zoom, focus and iris can be independently locked to prevent deviation after installation. (*Manual iris only)

Slip-Mount Mechanism

Each lens is equipped with a slip-mount mechanism that allows rotational adjustment of the lens after it is mounted on the camera. This allows optimal positioning of the auto-iris actuator and cable during installation.

Precision Manufacturing

All lens components are produced using advanced, high-precision manufacturing technologies to prevent image defects such as local blur and focus shift.

Fixed-Focal Lenses

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Dimensions

Environmental policy

Environmentally Friendly Design
Tamron employs an environmentally-friendly design approach that requires all lens components, as well as packing materials and all peripheral elements to be free from any substances that could have an adverse impact on our environment. All of Tamron's manufacturing plants implement thorough environmental assessments when procuring materials and components to ensure that no such harmful substances are used.

Strict Chemical Substances Management System
Tamron has established a strict internal regime to monitor all chemical substances used to manufacture our lenses, and is fully compliant with RoHS, REACH and WEEE. We will continue our efforts to develop safe products that bring our customers peace of mind in addition to our high standard of quality.

Caution: Please read the instruction manual carefully before using the lens.

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