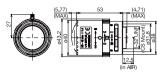
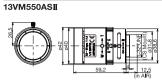
## **Dimensions**

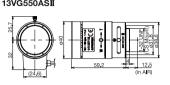
#### 13VM2812ASII

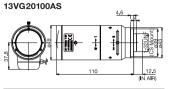
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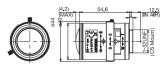




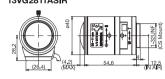
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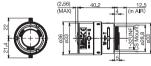


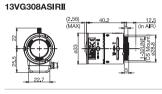


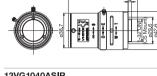


#### 13VG2811ASIR

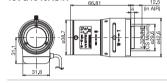




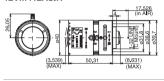




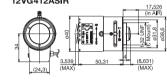
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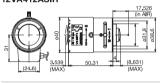
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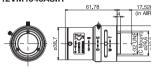


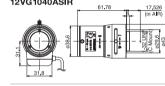
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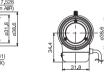


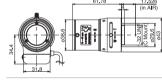
12VA412ASIR











# **Environmental policy**

### **Environmentally Friendly Design**

Tamron employs an environmentally-friendly design approach that requires all lens componets, 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.



Tamron will mark its 60th anniversary in November 2010.



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



Manufacturer of precise and sophisticated optical products for a broad range of industries.

#### TAMRON USA, INC.

Specifications subject to change without notice 2010,8

#### http://www.tamron.com

10 Austin Boulevard, Commack, NY 11725, USA Tel: +1-631-858-8400 Fax: +1-631-543-3963



Quality Assurance Activities: At Tamron, quality management activities are performed in

**Environmental Protection**: We recognize the significance of our social responsibilities. Tamron promotes corporate activities that protect the earth's environment through the establishment of a quality assurance system that is compliant with ISO14001.



# High Resolution Lens Series

High Resolution Lens High Resolution IR Lens



HRIR-E-111-U-1008-0300 2010.ver01 **US** 

# **High Resolution IR Vari-Focal Lenses**

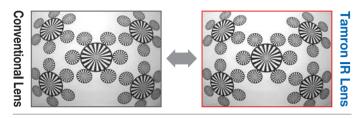


### Providing Exceptional Image Quality in the Visible and Near-infrared Spectrums

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.

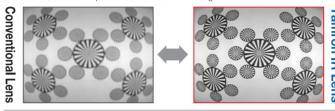
### **Quick Focus Comparison between Tamron IR Lenses and Conventional Lenses**

### **■Visible Light** (with 850nm IR Illuminator)



#### ■ Near-infrared spectrum (under 850nm illumination)

\*Taken at the same focus position as that used for visible light



**Examples of common IR sources** 

Suggested video camera types

- Halogen lamps at large construction sites, retail stores, entrance halls, etc.
- Outdoor sodium vapor street lamps
- Day & night video camera
  Monochrome video camera

### Model 13VM308ASIRII/13VG308ASIRII 3.0-8mm F/1.0 **High Resolution IR Vari-Focal Lens**

#### **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.

# **High Resolution Vari-Focal Lenses**

### Advanced Technology for today's Digital Monitoring Systems

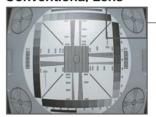
With the advance of high-resolution cameras and the rapid digitization of recording systems, there is a growing demand for CCTV camera lenses that can provide high resolution across the entire screen. As a leading manufacturer of integrated optics, Tamron now offers a lineup of high resolution Vari-Focal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

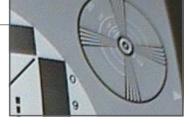
#### 650 TV Line Resolution

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.

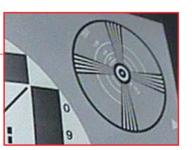
### **■**Comparison of Image Quality at **Maximum Aperture**

# **Conventional Lens**









#### \* Comparison of images taken at maximum aperture using an EIAJ standard test chart

### **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.

### Specifications and Lineup



#### Fixed-Focal Lenses



