

A large, detailed image of an owl's face, looking directly forward with its characteristic orange eyes. The owl is positioned in the upper left quadrant of the advertisement.

**TAMRON**

The text 'IR INFRARED' is centered in the advertisement. 'IR' is rendered in large, bold, red letters with a white outline, while 'INFRARED' is in smaller, white, italicized letters with a red outline. The text is set against a circular background with a green-to-blue gradient and faint white concentric circles.

**IR**  
*INFRARED*

A detailed image of an eagle's head in profile, facing left. The eagle has a sharp, hooked beak and is looking towards the right. The background behind the eagle is a circular area with a green-to-blue gradient and faint white concentric circles.

**Day to Night Solutions**

- IR VARI-FOCAL LENSES
- IR MONO-FOCAL LENSES



# InfraRed Lenses

## *Introducing True Day to Night Solutions from Tamron.*

*Tamron's new line of near IR lenses opens a whole new world of imaging under low or non-existent light on today's day/night cameras. World class optics and versatility of range are combined in the new 2.8-11mm F/1.4 Aspherical IR Vari-Focal. And for the first time, superior IR imaging is delivered in a full line of 1/3 Mono-Focal lenses.*

Infrared imaging is required in a broad range of applications where lighting conditions are so low that the human eye and traditional CCD cannot read the light to produce an image. However, many of the places where IR cameras may be placed are not dark 100% of the time and equipment that can handle both daytime and nighttime imaging is required. Tamron's IR lenses offer the ability of 24-hour continuous surveillance since the lenses can be used in both visible and IR light conditions.

### **24/7 Indoor Applications**

- Restaurants/Bars
- Hotels
- Banks/Vaults
- Office Buildings



### **24/7 Outdoor Applications**

- Parking Lots/Garages
- Traffic Control
- Building Grounds/Perimeter
- Airports, Marinas
- Auto Dealer Car Lots
- Rail Yards, Trucking Depots
- Power Plants, Reservoirs



### **Nighttime Indoor Applications**

- Hospital Wards
- Correctional Institutions
- Elder-care Facilities
- Zoological Nocturnal Research
- Museums



See  
in the dark



**NEW**

# 1/3 2.8-11mm F/1.4 Aspherical **IR** Vari-Focal

## *Wide Focal Range IR Lens.*



- Extended Focal Length for a multitude of installation requirements
- Functions in both Visible and IR wavelength ranges
- Dynamic Aperture Range from F/1.4~F/360 under visible light conditions
- Compact Profile for easy use in housings
- High Quality Image through the use of Aspherics
- Wideangle to Telephoto coverage (97° - 26°); approximately 26° more wideangle coverage than any other IR Vari-Focal Lens
- Available in DC Auto Iris and Manual
- Locking Mechanisms for Zoom, Iris and Focus

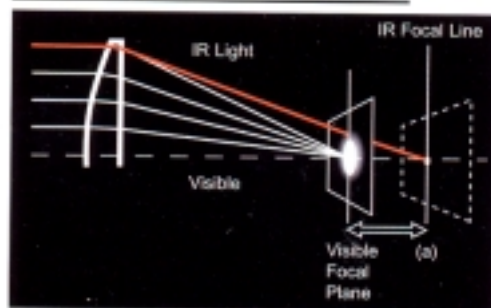
**NEW**

# 1/3 2.8mm, 4mm, 6mm, 8mm **IR** Mono-Focals

## *The Only Infrared Mono-Focal Lenses Available.*

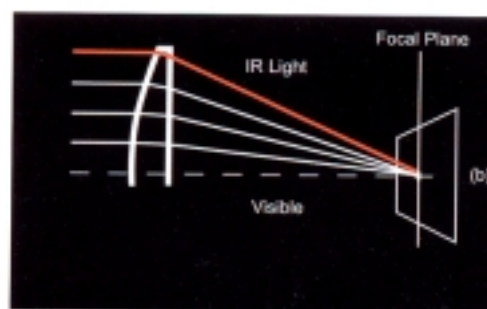
- Full Line selection for a variety of application needs
- Function in both Visible and IR wavelength ranges
- Dynamic Aperture Range from F/1.4~F/360 under visible light conditions
- Lightweight and Compact Chassis
- Available in DC Auto Iris and Manual Iris versions

## **IR** versus non-IR



Effect Standard Lens with IR Light

(a) The Difference between the visible and IR focal planes result in a blurry image.



IR Lens with IR Light

(b) Tamron's technology corrects the aberrations that occur in both visible and IR light and results in a clear image.

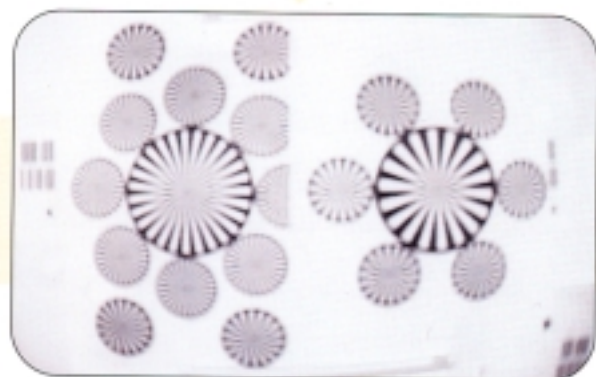
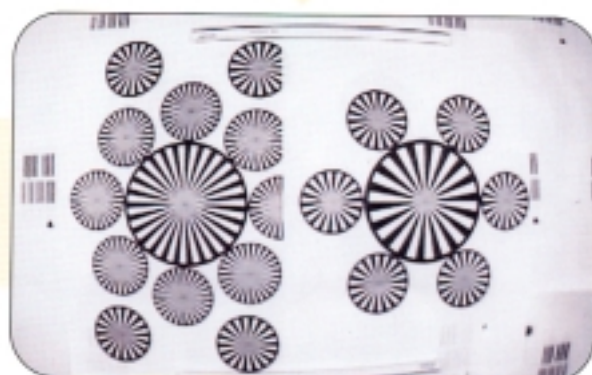


Image with non-IR lens, day/night camera and IR illuminator



Same low light conditions with Tamron 2.8-11mm IR Aspherical Vari-Focal, day/night camera and IR Illuminator.

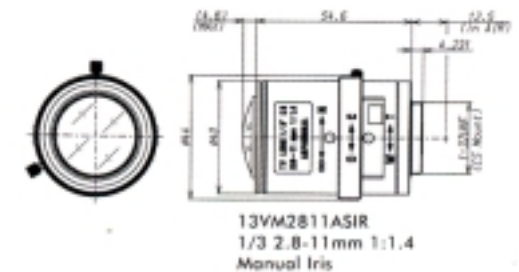
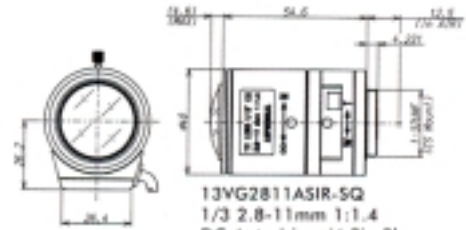
# Day to Night Solutions

# IR INFRARED

## SPECIFICATIONS

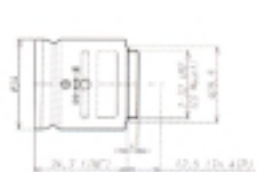
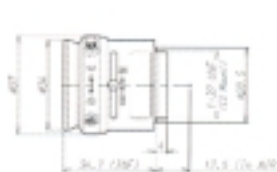
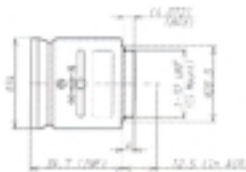
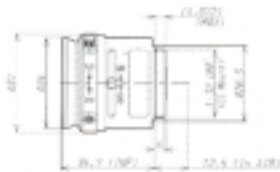
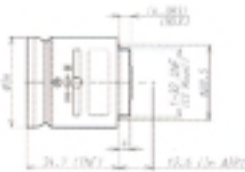
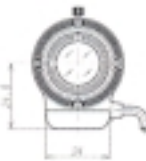
### IR Vari-Focal Lens

Model	13VM2811ASIR	13VG2811ASIR-SQ	
Imager Size	1/3, 1/4		
Mount Type	CS		
Focal Length	2.8~11mm		
Angle of View (Horizontal X Vertical)	1/3	Wide	97.4° X 72.4°
		Tele	26.2° X 19.7°
	1/4	Wide	72.4° X 54.0°
		Tele	19.7° X 14.7°
Focusing Range	0.3m~∞		
Iris Type	Manual	DC Auto Iris	



### IR Mono-Focal Lenses

Iris Type	Imager Size	Model	Focal Length	Aperture Range
Manual	1/3, 1/4	13FM28IR	2.8mm	1.2~close
Manual	1/3, 1/4	13FM04IR	4mm	1.2~close
Manual	1/3, 1/4	13FM06IR	6mm	1.2~close
Manual	1/3, 1/4	13FM08IR	8mm	1.2~close
DC Auto Iris	1/3, 1/4	13FG28IR-SQ	2.8mm	1.2~360
DC Auto Iris	1/3, 1/4	13FG04IR-SQ	4mm	1.2~360
DC Auto Iris	1/3, 1/4	13FG06IR-SQ	6mm	1.2~360
DC Auto Iris	1/3, 1/4	13FG08IR-SQ	8mm	1.2~360



13FG04IR-SQ

13FM06IR

13FG06IR-SQ

13FM08IR

13FG08IR-SQ

**Caution:** Please read the instruction manual carefully and follow its instructions.

# TAMRON®

Manufacturers of lenses for photographic, industrial, laboratory, video and scientific applications.



**ISO 9001 Certified**  
Tamron operates a quality management system that has been certified as conforming to ISO9001.

**ISO 14001 Certified**  
Tamron operates an environmental management system that has been certified as conforming to ISO14001.

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