

### 3 Mega Pixel / Full HD 1080p for Full Lighting Range

## Mega-pixel/IR Compatible 1/3"-format Telescopic Vari-Focal Lens 8-50mm F/1.6 (Model M13VG850IR)



Flat-Field *Mega Pixel*

**3Mega / FullHD**

● Specifications subject to change without notice 2012.3

		M13VG850IR
Imager size		1/3, 1/2.8, 1/2.7
Mount		CS
Focal length		8-50mm
Aperture range		F/1.6-360
Zoom ratio		6.2x
Focus range		0.3 m to ∞
Angle of view	Wide	33.6° x 25.2°
	Tele	5.6° x 4.2°
Iris type		DC Auto Iris
Wave Length		Visible Light ~ Near Infrared

### Main Features

#### ➤ High level of optical performance that offers 3 mega-pixel compatibility

The use of an aspherical element, XLD (Extra Low Dispersion)\* lens, and advanced optical design technology delivers high image quality that is compatible with 3 mega-pixel cameras. This image quality is of a level that exceeds Full HD 1080p. Delivers F/1.6 (Wide) and F/2.0 (Tele) levels of brightness.

\* XLD lens (Extra Low Dispersion): Delivers even lower dispersion than existing LD (Low Dispersion) lenses, using a special glass material with a low dispersion close to that of fluorite lenses. This is the first time this lens has been used as a CS mount lens by Tamron.

#### ➤ Delivers mega-pixel image quality, even during IR shooting

Existing lenses generally provide lower image quality under near-IR light conditions than under visible light conditions. Tamron believes that if using "Night Mode" results in lower image quality, there will not be much point in installing mega-pixel class cameras. This lens maintains 3 mega-pixel image quality from the visible to near-IR spectrums, which allows shooting video footage without the associated decrease in image quality when the camera is switched to "Night Mode". This lens heralds a new era for IR compatible mega-pixel lenses.

#### ➤ 8-50 mm that covers standard telescopic ranges

The telephoto type mega-pixel IR series covers the most frequently used focal ranges, from 8 mm to 50 mm.

#### ○ Wide image circle that is compatible with 1/2.8" and 1/2.7" format sensors

1/2.8"- and 1/2.7"-format compatibility means the lens can be installed in cameras with large sensor sizes.

#### ○ Reduction in chromatic aberration for images with no color smear

A design that minimizes chromatic aberration has been used to produce images with no color smear. The most advanced design analysis techniques have been used to prevent reflections occurring on the lens surface, which affects image quality, while multiple-layer coating helps to produce crystal clear images with minimal lens flare and ghosting.

#### ○ High-precision, high-quality structure designed to maximize performance

The precision of each and every part and component has been raised, and the most advanced production technology available has been used. Structural design faults that lead to image degradation such as image displacement and one-sided blur have been eliminated.

#### ○ Offers revolutionary mega-pixel quality while maintaining a compact size.

**⚠ Caution : Please read the instruction manual carefully before using the camera.**

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