

Mega Pixel

1/2 4.0-12mm F/1.4 Aspherical
Mega-Pixel-Compatible Vari-Focal Lens
IP- Compatible



Ultra High Definition Vari-Focal Lens Designed
to Derive Maximum performance from Mega-Pixel Cameras

Mega-Pixel-Compatible Vari-Focal Lens

Tamron's ultra high definition Mega-Pixel-Compatible Vari-Focal lenses derive maximum performance from mega-pixel cameras to provide the best solution for your mega-pixel camera applications.

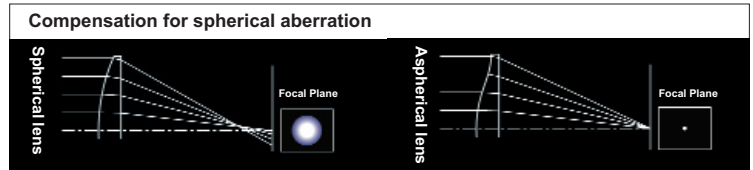
Key Technology Supporting Mega-Pixel Compatibility

High Image-Quality Lenses for Maximum Mega-Pixel Camera Performance

Using revolutionary optical design technologies, these lenses (model M12VM412 Manual Iris and M12VG412 DC Auto iris) offer uniform high resolution and high contrast across the entire image - from the center to the periphery. Of special note is the fact that resolving power at the periphery is about twice that of earlier models.

In addition to reducing aberration through the use of aspherical lens elements and working to further improve image quality, Tamron's design has also succeeded in making these lenses more compact.

■ Concept diagram showing compensation for aberration by an aspherical lens



Lens Designed for Compatibility with 1/2-inch Format CCDs

In a market characterized by a widening range of CCD sizes, these lenses have been designed for compatibility with 1/2"-format CCDs, so they can be used with cameras featuring larger imagers. By widening the focal length to 4 mm, wider than the 6 mm wide end that is usual for 1/2"-format lenses, these lenses offer a horizontal viewing angle of over 90 degrees.

Highly Accurate and High Quality Mechanical Construction

Each and every mechanical component boasts high accuracy and is assembled with advanced manufacturing engineering technologies. As a result, constructional problems that are likely to cause image degradation through focal point shift or lopsided blur have been eliminated.

Multiple-Layer Coatings

Multi-coating is applied to lens surfaces to minimize the phenomena of ghosting and flare in backlit situations. The result is consistent high contrast and excellent image quality even in such conditions.

Lock Mechanisms for Each Control Ring

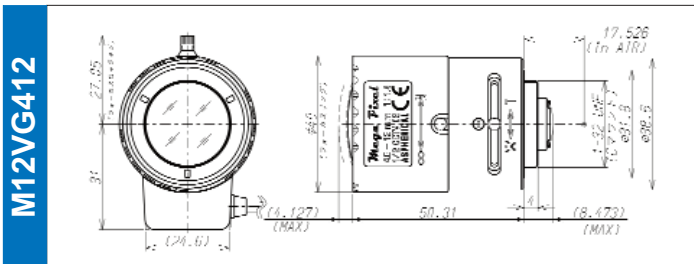
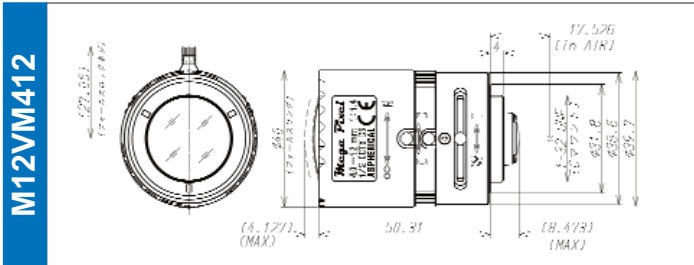
Each control ring (zooming, focusing and iris control*) has a lock mechanism. Setting displacement after installation can be avoided since each ring can be independently locked. (*Manual iris only)

Slip-Mount Mechanism for Easy Positioning

Each lens is equipped with a slip-mount mechanism that allows easy position adjustment by rotating the lens after it is mounted on a camera. This facilitates setting the auto-iris meter portion of the lens to a correct position around the lens.

Environmentally-Friendly Design

Environmentally-friendly designs are used, including the employment of design approaches that do not use substances in optical glass materials, sealing and packaging that impact the environment. Additionally, each Tamron factory implements environmental assessment when procuring materials and components in order to ensure non-use of environmentally destructive substances. Even electrical parts are lead free, and the design is in compliance with the RoHS directive.



SPECIFICATIONS

Model		M12VM412	M12VG412
Imager Size		1/2	1/2
Focal Length		4.0-12mm	4.0-12mm
Aperture Range		F/1.4-Close	F/1.4-360
Mount Type		C	C
Angle of View (Horizontal x Vertical)	Wide	100.5° x 73.4°	100.5° x 73.4°
	Tele	33.4° x 25.1°	33.4° x 25.1°
Operation	Zoom	Manual w/Lock	Manual w/Lock
	Iris	Manual w/Lock	DC Auto Iris

* Specifications and external appearance subject to change without notice.

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Head Office

Quality Assurance Activities

At Tamron, quality management activities are performed in compliance with ISO9001:2000 not only to assure product quality but to enhance customer satisfaction.

Environmental Protection

At Tamron, we recognize the significance of our social responsibilities. We promote corporate activities that reduce environmental load through the establishment of a quality assurance system that is compliant with ISO14001.

TAMRON

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