Tamron Announces The Launch Of M117FM06 And M117M08 Fixed Focal Lenses For Expanded Applications In Machine Vision

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Tamron Co., Ltd. (President & CEO: Shiro Ajisaka), a renowned manufacturer of optics for diverse applications, announces the launch of two fixed focal lenses, M117FM06 and M117M08, for large 1/1.7” imagers employed in machine vision, supporting full 6-mega-pixel resolution in a Ø29mm compact body. (In machine vision camera lenses compatible with 1/1.7 imagers and supporting 6 mega-pixel resolution - survey by Tamron, effective as of June 2020.)

In recent year, mega-pixel cameras used for machine vision applications including production equipment, substrate mounting equipment, various test equipment, and various engineering machines migrate toward higher resolution. Under this market trend, Tamron currently offers an
extensive array (total 28 models) of mega-pixel machine vision lenses for 1.1” imagers, 1/1.2” imagers, 2/3” imagers and 1/1.8” 2-mega-pixel imagers.

High resolution fixed focal lenses

In addition to this, Tamron newly releases two mega-pixel lenses supporting 1/1.7” and 1/1.8” 6-mega-pixel imagers in a compact body that are expected to spread in the future. In many cases, some specific production equipment, substrate inspection equipment, and industry-grade printers demand lenses that can be installed in a limited space and assure high resolution and high contrast in close-up wide angle images.

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With this addition, Tamron now offers the widest selection of high resolution lenses to address customers’ exacting needs. Tamron develops high resolution fixed focal lenses to meet customers’ critical requirements and needs in machine vision and pursues optical performance that assures distinguished fidelity in all image details, and excelled user utility.

Key Features

Unrivalled High Contrast and High Resolution in the Industry

The new lenses are compatible with 1/1.7” 2.74?m pixel-pitch 6-mega (max) pixel imagers, while assuring the highest resolution and contrast in Ø29mm machine-vision lenses.

Low Distortion (TV Distortion)

Tamron’s state-of-the-art optics technology achieves drastic improvement in TV distortion compared with previous models.
Specification: M117FM06: -1.5% / M117FM08: -1.0%

- **High Quality Imaging in Close-up Shooting Distance**

The new lens provides high quality imaging in commonly used close-up distances.

- **Rigid Inspection on High Quality**

Rigid inspection is performed to certify resolution from the center to the periphery of images, assuring high contrast and high resolution without unbalanced blurring throughout the entire lens view.

- **Rugged Mechanical Design for Anti Vibration and Shock**

Newly designed mechanism improves anti vibration and shock performance compared with previous models. Even under a severe machine-vision setup with as much as max 10G vibrations and shocks, the new mechanism limits optical (image) deflection within 10?m. (Vibration frequency 10-60Hz (amplitude 0.75mm), vibration frequency 60-200Hz (acceleration 100m/s2), and number of cycles: 50 cycles.)

- **A Commonly used Setscrew is Included as a Standard Accessory**

A lock screw used in previous models can be replaced with an embedding-type setscrew, reducing the diameter of the lens barrel for further compact installation. (Ø29mm: Excluding the objective-end of the lens.)
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