

New Scale News

Your update on ingeniously small motion systems

September 2010

Greetings!

Welcome to this issue of New Scale News, your quarterly update on miniature motion technology and applications.

As always, please [contact us](#) with questions or comments.

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~ Developer's kits now available: tiny focus module for digital cameras

Focus module developer's kits are now shipping from stock.

[Check out the video](#) or [buy a kit online](#).

Each kit includes an M3-F module for precision closed-loop lens motion, along with a USB adapter and New Scale Pathway software for easy evaluation and prototyping. Configured for I2C or SPI serial interface, the modules in the developer's kits accommodate your lens (M12 or smaller) and image sensors up to 17 x 17 mm.

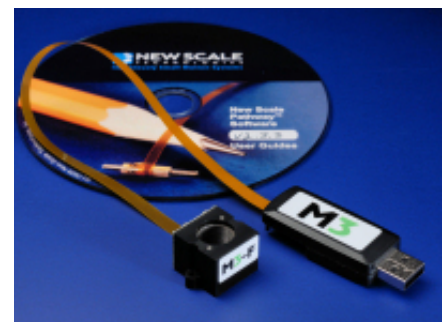
Each M3-F module is an integrated micro-mechatronics system incorporating a piezoelectric SQUIGGLE micro motor, position sensor, driver and microprocessor in a compact 20 x 22 x 16 mm housing. With small size and low power use, it is ideal for OEM camera systems. Mounted over the sensor on an OEM board camera, it improves image quality and efficiency in applications such as biometric imaging, machine vision and medical diagnostic systems.



[Focus module developer's kit video](#)

Developer's Kit Specifications

- Model: DK-M3F-1.8-TRK-1.5
- Lens (not included): Standard M12x0.5 mm, typical 5 grams weight
 - smaller lenses (to M8x0.35) accommodated with adapter (not included)
- Resolution: 0.5 micrometer
- Dimensions: 20 x 22 x 16 mm
- Weight (without lens): 6.4 grams
- Price: \$750



[Learn more / buy online](#)

See [additional specifications](#) for the developer's kit, and learn about customization options for OEM modules.

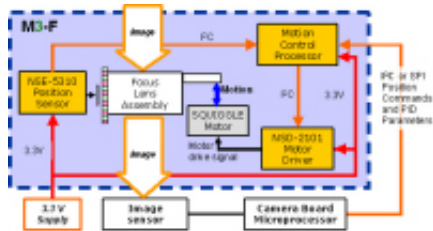
~ Application focus: biometric detection

Motorized lens motion can unleash the full imaging potential of high-resolution miniature security cameras.

Adding dynamic focus allows both wide field and macro imaging, enabling **multi-function cameras** that can image facial features, capture video, read barcodes and scan fingerprints with a single device.

Auto focus provides faster and more accurate matches in biometric detection applications such as **facial recognition and iris scanning**, by ensuring sharp images while allowing greater variation in the distance from the subject to camera.

Read more about using New Scale technology in [biometric and security systems](#).



M3-F system integration for biometric detection systems

~ Meet us at Vision 2010

VISION 2010
Best Players play at VISION
23rd International Trade Fair for Machine Vision
Messe Stuttgart, 9 – 11 November 2010

New Scale will demonstrate the M3-F module along with our other technology for **machine vision** at Vision 2010 in Stuttgart November 9-11.

Stop by our stand **D-15** in **Hall 6** to see our newest products.

- For conference information and registration [visit the Vision 2010 website](#).
- If you can't attend the conference but would like to arrange a personal meeting with New Scale, please [send us an email](#).

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