KMR Series
KMR-XGA
KMR-50-XGA
KMR-D1
KMR-50-D1
KMR-Zoom-M3
KMR-FOV-M3
KMR-200-M3

Video Inspection Systems
Starrett KMR video microscopes offer versatility and high-performance for a low cost. These systems are simple to operate without compromising performance. With seven models to choose from, systems can be customized for specific inspection or quick part measurement applications.

KineMic™ video microscopes are a family of versatile and affordable inspection and vision metrology systems. They are ideal for receiving inspection, quality assurance, training, manufacturing, assembly, research and documentation – wherever easy setup and a range of magnifications are required. Our XGA models set the standard for quick setup and ease of use by not requiring a computer, while the D1 and M3 models offer the power of a color touch screen monitor and PC with MetLogix™ D1 or M3 inspection and metrology software. Depending on the size of your parts, measurements can be all electronic within the field of view, or be integrated with stage motion for parts up to 8" (200mm).

**Basic KMR Features**
- 6.5:1 Zoom Optics
- 21.5” XGA Color Monitor

**Options**
- 2 x 2” (50 x 50mm) X-Y Stage with LCD Micrometers

**Intermediate KMR Features**
- 6.5:1 Zoom Optics
- 24” touch screen and PC
- MetLogix™ D1 metrology software supporting image annotation and image archiving, and basic calculations of feature, size, position and orientation

**Options**
- 2 x 2” (50mm x 50mm) X-Y Stage with LCD Micrometers

**Advanced KMR Features**
- Choice of 7 Telecentric Lenses options
- 24” touch screen and PC
- Video Edge Detection (VED)
- MetLogix™ M3 metrology software supporting image annotation, image archiving, geometric constructs and DXF CAD file importing

**Options**
- Field of View (FOV) image processing and DXF imports on KMR-Zoom-M3 and KMR-FOV-M3 models only
- Choice of 7 fixed magnification, telecentric lenses on non-zoom FOV systems including 0.14x, 0.3x, 0.5x, 0.8x, 1.0x, 2.0x or 4.0x
1. **KMR-XGA - Basic**

This the basic video inspection system, where the part to be inspected is placed on an illuminated base and a superb, highly magnified image of the part is displayed on a 21.5” video monitor using a color XGA video camera and 6.5:1 magnifying zoom optics. No need to squint into a microscope eyepiece. The video camera is connected directly to the monitor – no need for a computer or programming. An optional boom stand provides a stable mount for hard-to-reach places.

2. **KMR-50-XGA - Basic**

This a video toolmaker’s microscope which combines the simplicity of the XGA basic model plus a 2 x 2” (50 x 50mm) X-Y stage and X and Y micrometers. The micrometers are used to move the stage in the X and Y directions and also to display the stage position digitally with a resolution of 0.001mm or 0.00005”. Accurate measurements are taken as the magnified image is moved under crosshairs generated by the camera. Pushbuttons select millimeters or inches, zero the micrometer display, and can add a zero point offset if desired. The measurement of small parts has never been easier.

3. **KMR-D1 - Intermediate**

This powerful yet affordable vision metrology system provides 6.5:1 magnifying zoom optics with six detents magnification levels, a 24” touch screen and PC (8GB RAM, 128 GB SSD, Windows® 10 Professional, 64 Bit), and MetLogix™ D1 inspection and metrology software featuring image annotation and image archiving, and data import/export under Windows® 10 Professional.

4. **KMR-50-D1 - Intermediate**

All the features of the KMR-D1 system plus a 2 x 2” (50 x 50mm) X-Y stage with measurement resolution of 0.00005”. These affordable video based inspection and measurement systems are ideal for receiving inspection, quality assurance, training, manufacturing, assembly, research and documentation - wherever easy setup and a range of magnifications is required. D1 models offer image annotation, image archiving, measurement and easy transfer via network or email.

5. **KMR-Zoom-M3 - Advanced**

The KMR-M3 is a highly versatile video microscope that includes a color digital video camera, 6.5:1 zoom lens, 24” touch screen and PC (8GB RAM, 128 GB SSD, Windows® 10 Professional, 64 Bit), and MetLogix™ M3 software. M3 offers the advantages of Video Edge Detection (VED), Field of View (FOV) image processing and DXF CAD file imports for direct comparison to the work piece.

6. **KMR-FOV-M3 - Advanced**

This vision metrology system provides a choice of 7 fixed magnification telecentric lenses, 24” touch screen and PC (8GB RAM, 128 GB SSD, Windows® 10 Professional, 64 Bit), and MetLogix™ M3 vision metrology software – but no X-Y stage. It is ideal for high-speed digital video measurements of small part parts that fit within the Field of View (FOV) of the optics and camera, which can range from 1.4mm to 9mm in the X direction depending on the lens selected. The M3 software is also great for image archiving and image annotation, offers Video Edge Detection (VED), and DXF CAD file imports. The result is an accurate and versatile metrology measuring microscope.

7. **KMR-200-M3 - Advanced**

The KMR-200 utilizes a 6.5:1 zoom lens, digital video camera and a precision 4 x 8” (200 x 100mm) X-Y stage with digital encoders that interface with the system PC and the M3 software to provide accurate repeatable measurements. System features also include a 24” touch screen and PC (8GB RAM, 128 GB SSD, Windows® 10 Professional, 64 Bit), and MetLogix M3 vision metrology software. These simple yet high-performance metrology systems are ideal for high accuracy, high throughput measurements of small parts, with automatic comparison to CAD files and electronic record keeping.
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*These are best values. Actual values will depend on the zoom lens setting or selected telecentric lens.

**D1 software basic measurements are taken by manually positioning a cross-hair on the screen.

Disclaimer: Due to continual product improvements, specifications may change without notice.