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# Mitutoyo FS70 Microscope w/ Basic Stand and 10X Eyepieces

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Stock **#56-003** [CONTACT US](#)

-

1

+

€9.995<sup>00</sup>

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## SPECIFICATIONS

### General

|                                          |                       |
|------------------------------------------|-----------------------|
| Mitutoyo                                 | Manufacturer:         |
| Reflective illumination for bright field | Type of Illumination: |

|                                                                                                      |                                      |
|------------------------------------------------------------------------------------------------------|--------------------------------------|
| Light source: fiber optic                                                                            |                                      |
| <b>Type of Focusing:</b><br>Concentric coarse and fine wheels with 50mm travel, 0.1mm/rev fine focus |                                      |
| <b>Physical &amp; Mechanical Properties</b>                                                          |                                      |
| 51 - 76                                                                                              | <b>Interpupillary Distance (mm):</b> |
| <b>Optical Properties</b>                                                                            |                                      |
| <b>Image Orientation:</b><br>Erect (not a stereoscopic image)                                        |                                      |
| <b>Regulatory Compliance</b>                                                                         |                                      |
| <a href="#">View</a>                                                                                 | <b>Certificate of Conformance:</b>   |

## PRODUCT DETAILS

- Utilizes Mtutoyo [Infinity Corrected Objectives](#)
- Trinocular Design Allows for Easy Video Adaptation
- Turret Accepts up to Four Objectives
- Objectives and Light Source Sold Separately

Designed to yield high magnifications at long working distances, the Mtutoyo FS70 Inspection Microscope is an ideal choice for many inspection and quality assurance applications. Incorporating Mtutoyo's full line of visible [infinity-corrected objectives](#), the microscope system obtains magnifications from 20X – 8000X and working distances from 6 – 34mm. The focusing eyepieces can accept 25mm diameter reticles. The 50/50 trinocular head features 50mm of coarse movement, 0.1mm/rev of fine movement, and simultaneous video and binocular viewing.

**Note:** [Objectives](#) and [illumination](#) are sold separately.

## TECHNICAL INFORMATION

|                                                                              |                         |
|------------------------------------------------------------------------------|-------------------------|
|                                                                              |                         |
| Microscope System                                                            |                         |
| Mtutoyo FS70 Microscope System (includes #55-999, #56-000, #56-001, #56-002) | <a href="#">#56-003</a> |
| Microscope Head (One Required)                                               |                         |
| Mtutoyo FS70 Microscope Head                                                 | <a href="#">#55-999</a> |
| Microscope Stand (One Required)                                              |                         |
| Mtutoyo FS70 Microscope Stand                                                | <a href="#">#56-000</a> |
| Microscope Eyepieces in Pairs (One Required)                                 |                         |
| 10X WF Focusing Eyepieces, 24mm Field Dia.                                   | <a href="#">#56-001</a> |
| 15X WF Focusing Eyepieces, 16mm Field Dia.                                   | <a href="#">#56-310</a> |
| 20X WF Focusing Eyepieces, 12mm Field Dia.                                   | <a href="#">#56-004</a> |
| Microscope Turret (One Required)                                             |                         |
| Manual 4 Position Turret for Mtutoyo FS70                                    | <a href="#">#56-002</a> |
| Motorized 4 Position Turret for Mtutoyo FS70                                 | <a href="#">#56-313</a> |
| Microscope Stage (Optional)                                                  |                         |
| 2" x 2" XY-Axes Positioning Stage                                            | <a href="#">#56-011</a> |
| Accessories and Reticles (Optional)                                          |                         |
| Fiber Optic Light Guide for FS70, 72" Length                                 | <a href="#">#56-008</a> |

|                                                              |         |
|--------------------------------------------------------------|---------|
| Polarizer Set                                                | #56-009 |
| C-Mount Coupler (1X) for Video Adaptation                    | #56-010 |
| 90° Crossline, Reticle                                       | #56-005 |
| Concentric Circles Reticle, 1.2 - 18mm Dia, 1.2mm Increments | #56-007 |
| 20mm Line/0.1mm Divisions, Reticle                           | #56-183 |
| 5mm Line/0.05mm Divisions, Reticle                           | #56-184 |
| 90°/60° Crossline, Reticle                                   | #56-311 |

| Stock No. | Objective        | WD (mm) | Resolving Power (μm) | 10X Eyepiece #56-001 |           | 15X Eyepiece #56-310 |           | 20X Eyepiece #56-004 |           |
|-----------|------------------|---------|----------------------|----------------------|-----------|----------------------|-----------|----------------------|-----------|
|           |                  |         |                      | Mag.                 | FOV (mm)  | Mag.                 | FOV (mm)  | Mag.                 | FOV (mm)  |
| #58-235   | MPlan Apo 1X     | 11      | 11                   | 10-20X               | 24-12     | 15-30X               | 16-8      | 20-40X               | 12-6      |
| #46-142   | MPlan Apo 2X     | 34      | 5                    | 20-40X               | 12-6      | 30-60X               | 8-4       | 40-80X               | 6-3       |
| #46-143   | MPlan Apo 5X     | 34      | 2                    | 50-100X              | 4.8-2.4   | 75-150X              | 3.2-1.6   | 100-200X             | 2.4-1.2   |
| #66-383   | MPlan Apo 7.5X   | 35      | 1.3                  | 75-150X              | 3.2-1.6   | 112.5-225X           | 2.13-1.07 | 150-300X             | 1.6-0.8   |
| #46-144   | MPlan Apo 10X    | 33.5    | 1                    | 100-200X             | 2.4-1.2   | 150-300X             | 1.6-0.8   | 200-400X             | 1.2-0.6   |
| #46-145   | MPlan Apo 20X    | 20      | 0.7                  | 200-400X             | 1.2-0.6   | 300-600X             | 0.8-0.4   | 400-800X             | 0.6-0.3   |
| #46-146   | MPlan Apo 50X    | 13      | 0.5                  | 500-1000X            | 0.48-0.24 | 750-1500X            | 0.32-0.16 | 1000-2000X           | 0.24-0.12 |
| #46-147   | MPlan Apo 100X   | 6       | 0.4                  | 1000-2000X           | 0.24-0.12 | 1500-3000X           | 0.16-0.08 | 2000-4000X           | 0.12-0.06 |
| #46-398   | MPlan Apo 20X SL | 30.5    | 1                    | 200-400X             | 1.2-0.6   | 300-600X             | 0.8-0.4   | 400-800X             | 0.6-0.3   |
| #46-399   | MPlan Apo 50X SL | 20.5    | 0.7                  | 500-1000X            | 0.48-0.24 | 750-1500X            | 0.32-0.16 | 1000-2000X           | 0.24-0.12 |
| #46-401   | MPlan Apo 100XSL | 13      | 0.5                  | 1000-2000X           | 0.24-0.12 | 1500-3000X           | 0.16-0.08 | 2000-4000X           | 0.12-0.06 |
| #34-247   | MPlan Apo 5X HR  | 25.5    | 1.3                  | 50-100X              | 4.8-2.4   | 75-150X              | 3.2-1.6   | 100-200X             | 2.4-1.2   |
| #58-236   | MPlan Apo 10X HR | 15      | 0.6                  | 100-200X             | 2.4-1.2   | 150-300X             | 1.6-0.8   | 200-400X             | 1.2-0.6   |
| #58-237   | MPlan Apo 50X HR | 5.2     | 0.3                  | 500-1000X            | 0.48-0.24 | 750-1500X            | 0.32-0.16 | 1000-2000X           | 0.24-0.12 |
| #58-238   | MPlan Apo 100XHR | 1.3     | 0.3                  | 1000-2000X           | 0.24-0.12 | 1500-3000X           | 0.16-0.08 | 2000-4000X           | 0.12-0.06 |