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# 100X Mitutoyo Telecentric Objective

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3X (#56-985) & 5X (#56-986)



Stock **#87-230** [CONTACT US](#)

⊖ 1 ⊕ MRP ₹6,20,208

📌 Price inclusive of all taxes

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**General**

375-053	<b>Model Number:</b>
Microscope Objective	<b>Type:</b>
Finite Conjugate	<b>Style:</b>

Manufacturer:  
Mitutoyo

Note:  
Image is formed 280mm from specimen (170mm from the mounting flange)

## Physical & Mechanical Properties

Length (mm):  
104.00

Length excluding Threads (mm):  
104.00

Maximum Diameter (mm):  
39

Weight (g):  
380

## Optical Properties

Horizontal Field of View, 1/2" Sensor:  
0.06mm

Horizontal Field of View, 2/3" Sensor:  
0.09mm

Focal Length FL (mm):  
1.79

Aperture (f/#):  
NA0.7

Magnification:  
100X

Numerical Aperture NA:  
0.70

Resolving Power ( $\mu\text{m}$ ):  
0.4

Depth of Field ( $\mu\text{m}$ ):  
0.60

Field of View, 24 Diameter Field Eyepiece (mm):  
0.3

Field of View, 18 Diameter Field Eyepiece (mm):  
0.23

Working Distance (mm):  
6

Wavelength Range (nm):  
435 - 655

Parfocal Length (mm):  
110

Immersion Liquid:  
N/A

Maximum Image Circle (mm):  
11.00

## Sensor

Maximum Sensor Format:  
2/3"

## Threading & Mounting

Mount:  
M26 x 36 TPI

Mounting Threads:  
M26 x 36 TPI

## Environmental & Durability Factors

Operating Temperature ( $^{\circ}\text{C}$ ):  
+5 to +40

Operating Humidity:  
20 - 80%

## Regulatory Compliance

RoHS 2015:  
[Exempt](#)

Certificate of Conformance:  
[View](#)

REACH 241:  
[Contains SVHC\(s\)](#)

Country of Origin:  
Japan

Imported By:  
Edmund Optics India Private Limited

## Product Details

- Long Working Distances Allow for Integration into Machine Vision Measurement Systems
- Compact Design and Long Parfocal Length Simplifies Mounting
- **Tube** Available for Use with C-Mount Cameras
- Aluminum Alloy Housing

Mitutoyo Telecentric Objectives are ideal for high-resolution, high power machine vision measurement and optical gauging systems. With powers up to 100X, these objectives can be used for semiconductor production and inspection, and in metrology, quality assurance, and R&D laboratories. These objectives are constructed of an aluminum alloy housing. Mitutoyo Telecentric Objectives have a compact design and a long parfocal length that simplifies mounting. They are easily integrated into C-Mount imaging systems with our Mitutoyo C-Mount Camera Tube [#56-992](#).

Edmund Optics is the main source for Mitutoyo Objectives. Place your orders now for these in demand quality products.

## Technical Information

Magnification	A	B	C	D	E	Stock No.
1X	49	10	16.5	31.5	31.5	<a href="#">#56-984</a>
3X	33	10	18	25	28	<a href="#">#56-985</a>
5X	49	10	17	25	28	<a href="#">#56-986</a>
10X	59	10	14.5	30	30	<a href="#">#56-987</a>
20X	90	14.5	23	33	39	<a href="#">#87-228</a>
50X	97	14.7	23	33	39	<a href="#">#87-229</a>
100X	104	14.1	23	33	39	<a href="#">#87-230</a>

