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## 20X 120i Compact Microscope Kit



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**Note:** This item requires accessories for use | [Learn More](#)

### Product Downloads

### General

**Compatible Tube Lens Focal Length (mm):**  
Focal Length: 120mm

**Type:**  
Microscope Objective

**Style:**  
Infinity Corrected

**Manufacturer:**  
Edmund Optics®

Contents of Kit:  
QTY 1 of 15944, 18504, 28781

Note:  
Basic User Assembly Required

## Physical & Mechanical Properties

Length (mm):  
76.50

Length excluding Threads (mm):  
76.50

Maximum Diameter (mm):  
35

Weight (g):  
221

## Optical Properties

Horizontal Field of View, 1/2" Sensor:  
0.32mm

Horizontal Field of View, 2/3" Sensor:  
0.44mm

Horizontal Field of View, 1" Sensor:  
0.64mm

Focal Length FL (mm):  
6.00

Magnification:  
20X

Numerical Aperture NA:  
0.42

Resolving Power ( $\mu\text{m}$ ):  
0.65

Depth of Field ( $\mu\text{m}$ ):  
1.60

Working Distance (mm):  
5.7

Wavelength Range (nm):  
400 - 700

Field Number (mm):  
17.6

Parfocal Length (mm):  
82.2

## Threading & Mounting

Mounting Threads:  
1" x 32 TPI

## Environmental & Durability Factors

Operating Temperature ( $^{\circ}\text{C}$ ):  
+10 to +40

## Regulatory Compliance

Certificate of Conformance:  
[View](#)

## Need different specs or modifications?

Edmund Optics offers comprehensive custom manufacturing services for optical and imaging components tailored to your specific application requirements. Whether in the prototyping phase or preparing for full-scale production, we provide flexible solutions to meet your needs. Our experienced engineers are here to assist—from concept to completion.

Our capabilities include:

- Custom dimensions, materials, coatings, and more
- High-precision surface quality and flatness
- Tight tolerances and complex geometries
- Scalable production—from prototype to volume

Learn more about our [custom manufacturing capabilities](#) or submit an inquiry [here](#).

## Product Details

- Optimized Performance up to 1.1" Sensors
- Includes 120i Plan APO Objective, C-Mount Camera Tube, and Compact Tube Lens Assembly
- Ideal for Life Science and Industrial Applications

Edmund Optics® 120i Plan APO Infinity Corrected Objective System combine a 120i Plan APO Infinity Corrected Microscope Objective, a compact tube lens, and a C-mount camera tube for ease of selection and purchase. When assembled with a C-mount camera, this system provides excellent optical performance while reducing system size, weight, and overall length. The infinity corrected objectives are designed for a 1.1" sensor and offer a large field of view and reliable image quality for high-throughput imaging applications. Edmund Optics® 120i Plan APO Infinity Corrected Objective System offer exceptional image flatness and color correction over 400-700nm. These objectives are ideal for a range of life science and machine vision applications including microscopy, flow cytometry, pharmaceutical inspection, and assembly line or fault inspection.

# Technical Information

