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## 20X 120i Plan APO Infinity Corrected Objectives



#15-944: 20X 120i Infinity Corrected Objective



Stock **#15-944** **2 In Stock**

S\$2,646<sup>00</sup>

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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

Edmund Optics®

Manufacturer:

## Physical & Mechanical Properties

76.50 Length (mm):

76.50 Length excluding Threads (mm):

35 Maximum Diameter (mm):

221 Weight (g):

## Optical Properties

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

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

0.70mm Horizontal Field of View, 1.1" Sensor:

6.00 Focal Length FL (mm):

20X Magnification:

0.42 Numerical Aperture NA:

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

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

5.7 Working Distance (mm):

400 - 700 Wavelength Range (nm):

17.6 Field Number (mm):

82.2 Parfocal Length (mm):

## Sensor

1.1" Maximum Sensor Format:

## Threading & Mounting

1" x 32 TPI Mounting Threads:

## Environmental & Durability Factors

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

## Regulatory Compliance

[Compliant](#) RoHS 2015:

[View](#) Certificate of Conformance:

[Contains SVHC\(s\)](#) Reach 240:

## Product Details

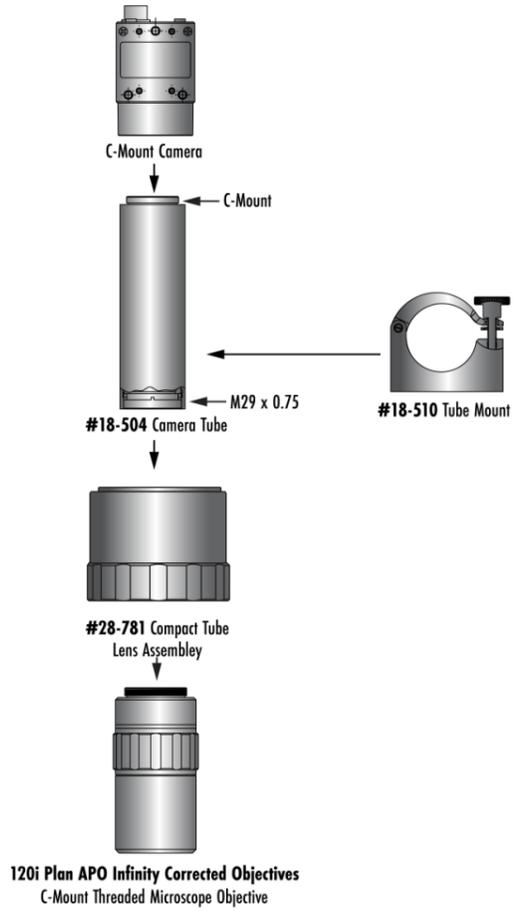
- Up to 43% Smaller than Industry Standard Systems
- Optimized Performance up to 1.1" Sensor
- Ideal for Life Science and Industrial Applications
- Winner of the [2023 Bronze VSD Innovators Award](#)

Edmund Optics® 120i Plan APO Infinity Corrected Objectives are infinite conjugate microscope objectives that offer exception image flatness and chromatic correction over 400-700nm. These objectives were designed for a 1.1" sensor to offer a large field of view and reliable image quality for high-throughput imaging applications. Ideal for life science and machine vision applications such as microscopy, flow cytometry, pharmaceutical inspection, and assembly line or fault inspection.

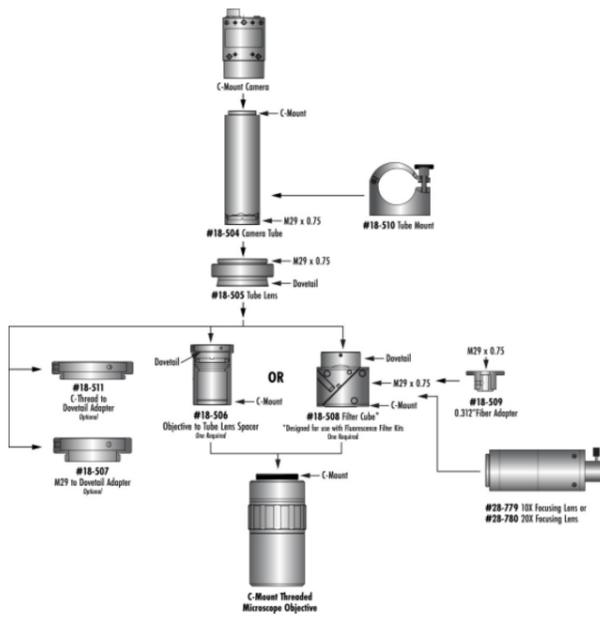
These objectives won the [2023 Bronze VSD Innovators Award](#).

## Technical Information

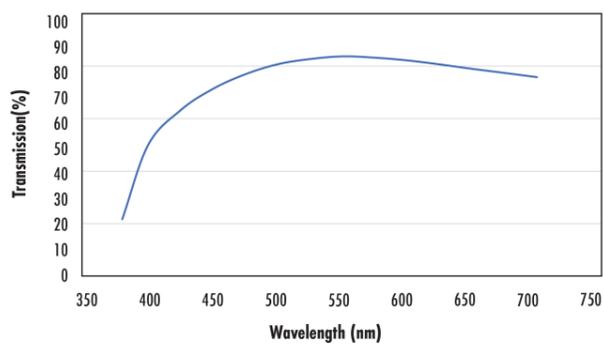
## Compact Tube Lens System



## Standard Tube Lens System



#15-944 Reference Transmission Plot



## Custom

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](#).