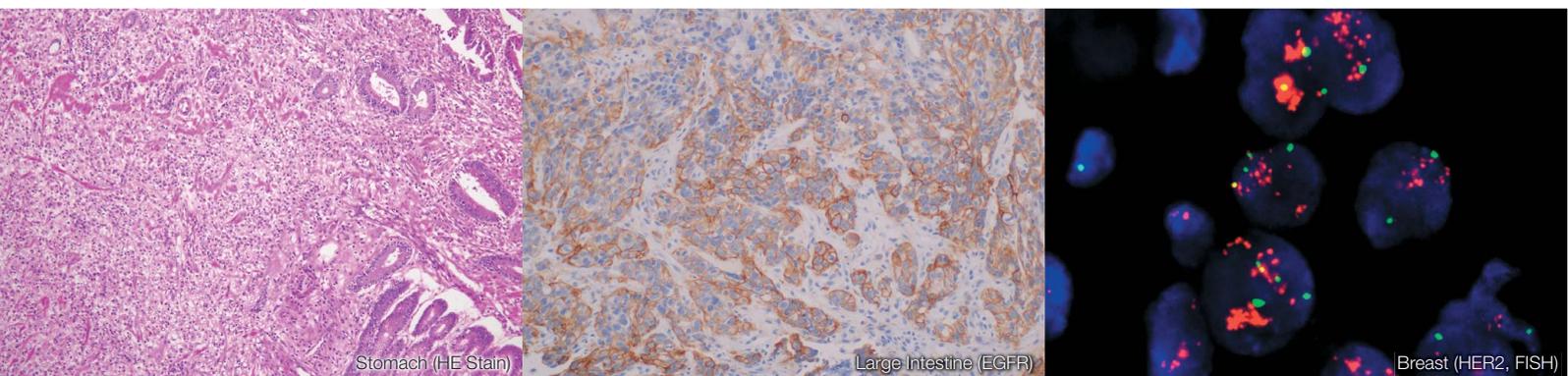


## Designed for Teaching and Challenging Applications



# BX53

With an LED illuminator equivalent to or better than a 100 W halogen lamp, the BX53 microscope delivers outstanding brightness that's ideal for teaching and polarized light applications.



**BX53**  
System Microscope

# Comfortable and Efficient

## Maintain a Natural Posture

### Excellent Ergonomic Tube

Our most ergonomic option moves up and down, tilts, and extends forward and back so you can move it closer to you. With this one component, users of nearly any height can adjust the scope so that they're comfortable. The super ergonomic tube is suitable for labs where multiple users share a microscope since each can adjust it to accommodate their height and posture.



### Tilting Trinocular Tube

The tilting trinocular tube is designed for users who want the flexibility of an ergonomic component but need to attach a camera to their microscope. The optical path switch can be attached to either side of the tube, so both left and right handed users can comfortably switch from the camera to the eyepieces.



### Tilting Binocular Tubes that Meet Your Needs

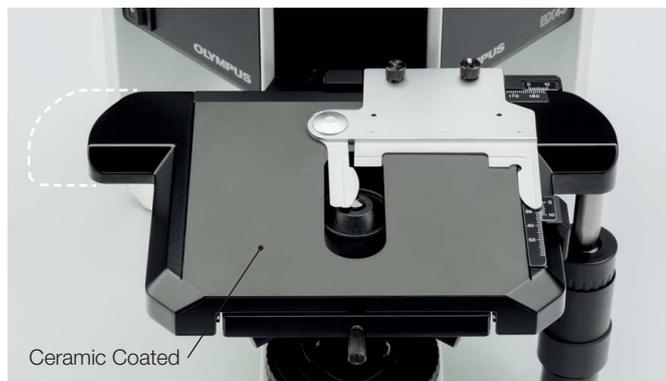
Our diverse lineup of tilting observation tubes provides flexibility in a variety of applications. From cost-effective models to tubes for erect image observation and eyepoint adjusters that accommodate user height differences, choose the tilting binocular tube that suits your needs.



## Comfortable, Easy-to-Use Stage

### Rackless Stage with Enhanced Operability

The stage has a rackless, wire-driven design with no teeth in the gear, helping to minimize injuries to users.



### Abrasion Resistant and Durable Stage

Mechanical stages are coated with a durable ceramic, maximizing abrasion resistance and helping to keep the surface smooth.

### Keep Your Hands on the Desk

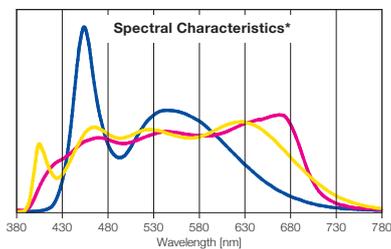
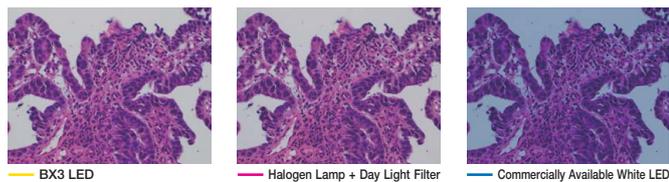
The stage handle extender enables users to do their work while keeping their arms resting on the desk, resulting in less fatigue during extended use. Users can also mount a rubber cap to the handle so the stage can be controlled using light torque.



## Clear Observation with Reduced Eye Strain

### Bright LED Lighting Designed for Pathology and Cytology

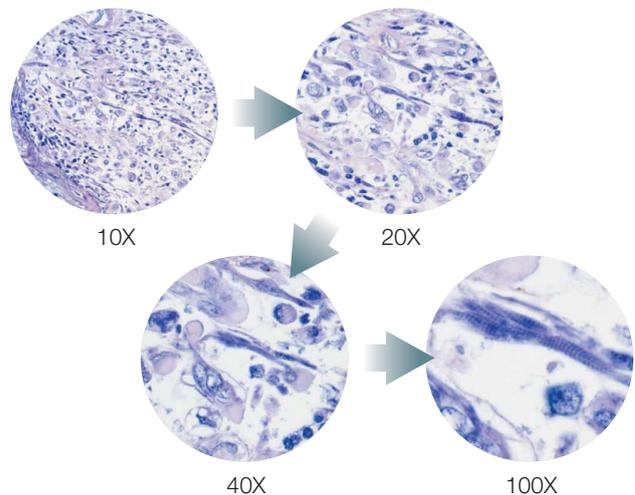
Designed with spectral characteristics that mimic halogen light sources, the BX3 series' LED illumination enables users to clearly view the purple, cyan, and pink colors important in pathology, but typically difficult to see using LEDs. Users get the benefits of an LED, including consistent color temperatures and long use life, without the typical trade offs.



\* This graph shows the spectral characteristics of each light source regularized with the luminosity curve. It does not compare the strength of light for each light source.

### Maintain Brightness when Changing Magnifications

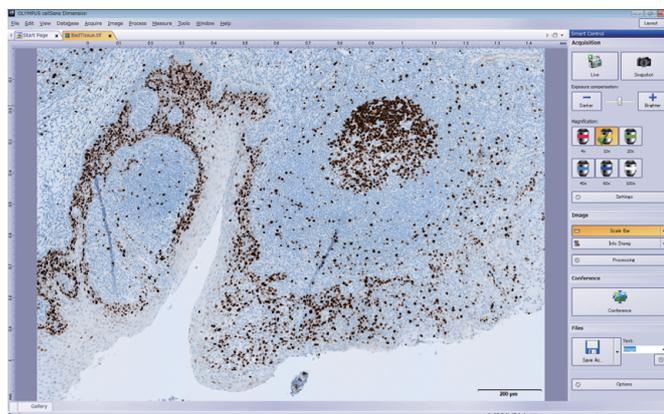
The BX3 series' light intensity manager eliminates the step of adjusting lamp brightness when changing magnification. By maintaining uniform brightness at any magnification, users can achieve their observations quickly and with reduced eye strain.



## Efficient Image Capture

### Easily Acquire High-Quality Images

Combining the BX3 series with cellSens imaging software makes acquiring high-quality images for documentation quick and easy. The "Simple Layout" improves efficiency and work flows for all users from novice to expert. All image acquisition functions are easily accessible for intuitive operation. This enables even untrained users to obtain excellent results.



### Capture Digital Images without Using a PC

The DP22 digital microscope camera makes it easy to observe, measure, and acquire images without using a PC. Focusing and specimen transfer are simplified thanks to precise color reproduction and smooth live images. With the DP22 camera, you can directly display specimens on a monitor and capture images for reports and conferences.



BX53+Digital Camera DP22 (Stand-alone) Configuration

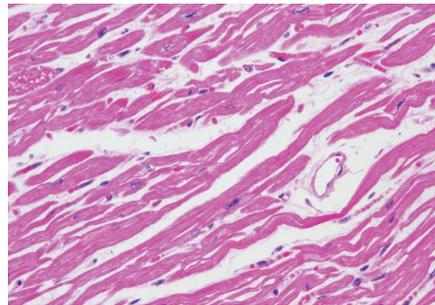
# Versatile Observation Methods

## Brightfield

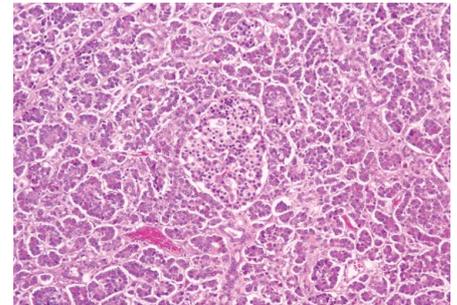
### Get Bright Images with Excellent Resolution/Flatness at All Magnifications

Olympus' diverse line of condensers enable users to choose what they need for their application. For example, the U-SC3 swing-out condenser is suitable for observations from 1.25X to 100X, the U-LC is optimized for consecutive observations from 2X to 100X (dry), the U-AAC reduces aberration, and the U-ULC-2 is specially-designed for ultra-low magnifications.

\*Select the U-ULC2 condenser for optimal digital imaging with the 1.25X objective.



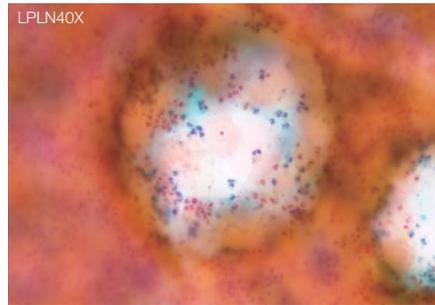
Hert (HE)



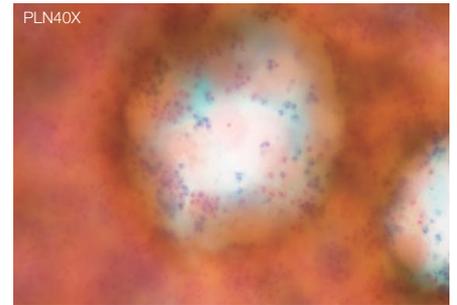
Hert (HE)

### Suitable for Cellular Tissue Observation / LPLN40X

This objective is ideal for imaging thick, clear samples, even at 40X magnification. The LPLN40X is equipped with a correction collar so users can adjust the spherical aberration caused by differences in cover glass thickness to get clear images.



Uterine corpus (PAP)

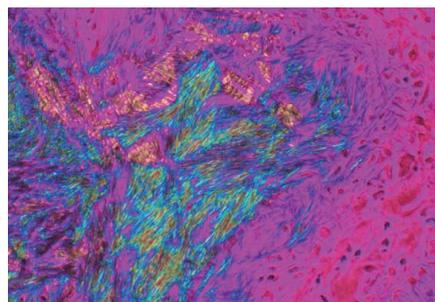


Uterine corpus (PAP)

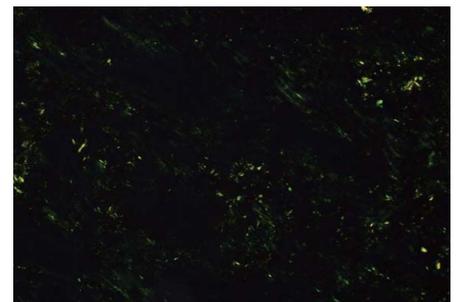
## Polarized Light

### High-resolution View of Double Refraction Structure in Cells

Tooth, bone, muscle tissue, nerve tissue, actomyosin fiber, and mitotic spindle can all be observed without staining. There are intermediate attachments (U-OPA/U-CPA) for orthoscopic and orthoscopic/conoscopic viewing. Various compensators make it possible to observe a wide range of retardation. Also available are a condenser exclusively for polarized light observation, revolving nosepiece, rotating stage, objectives, simple polarizing attachment, and analyzer to detect uric acid crystal.



Uric acid crystal



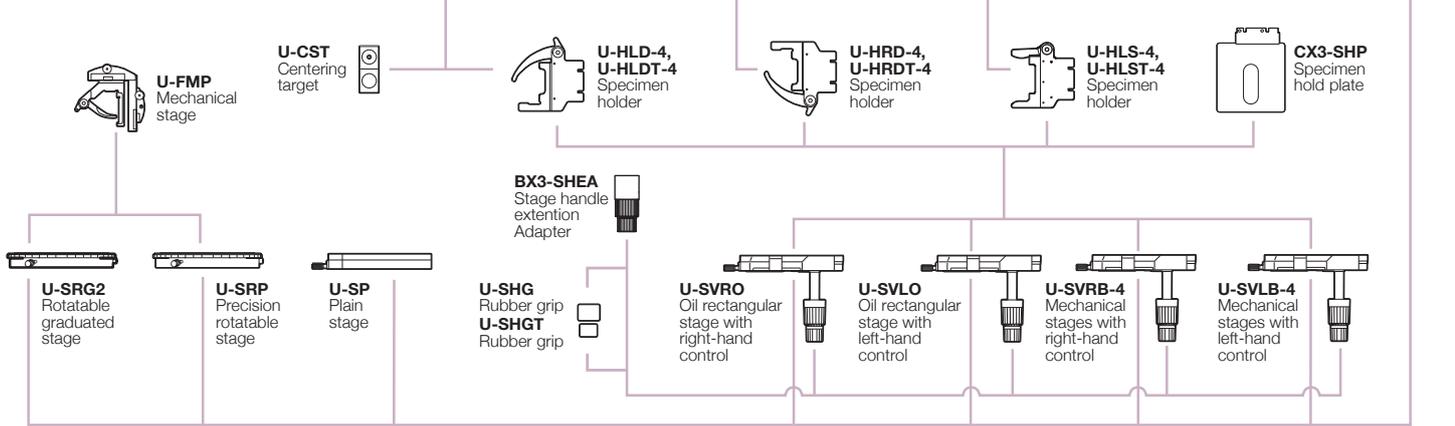
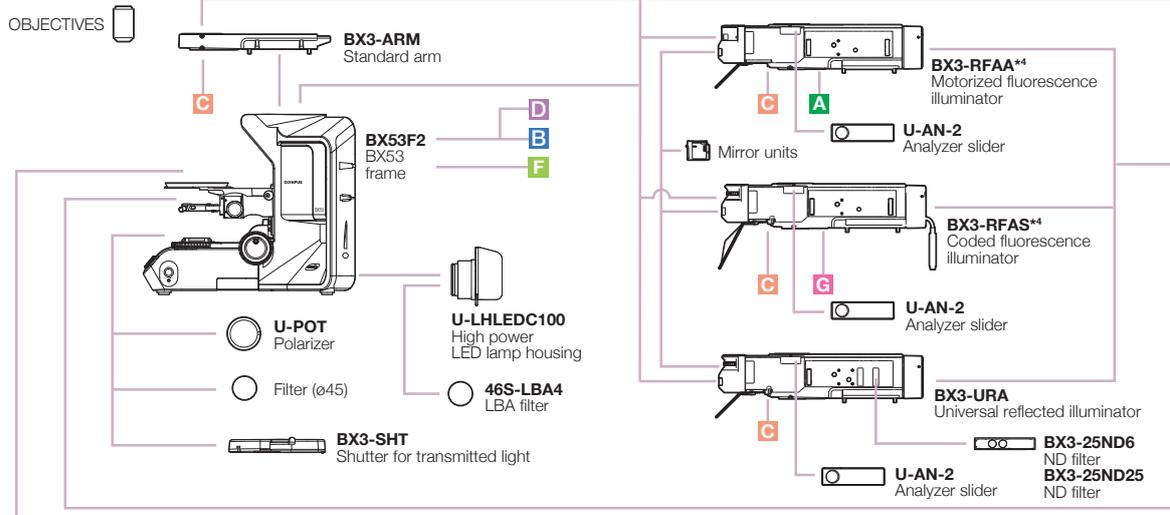
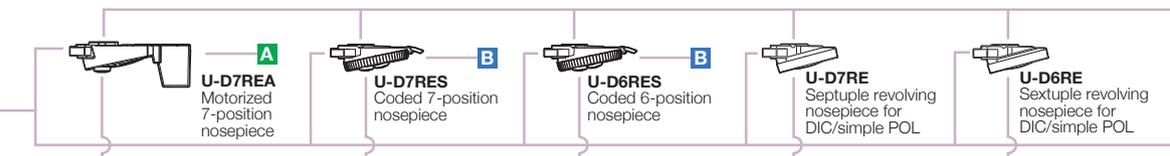
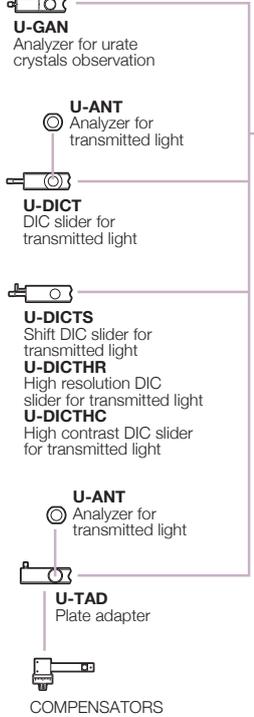
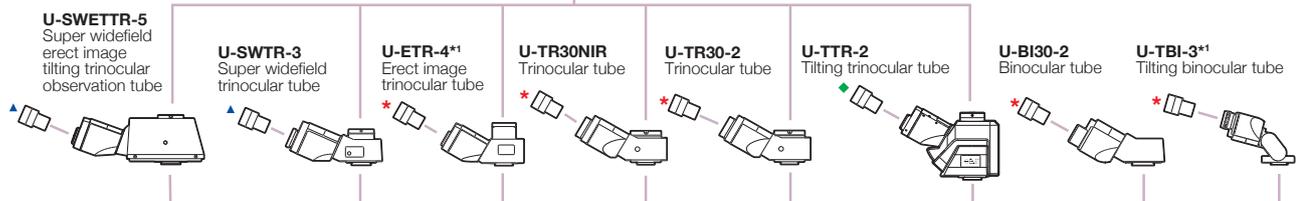
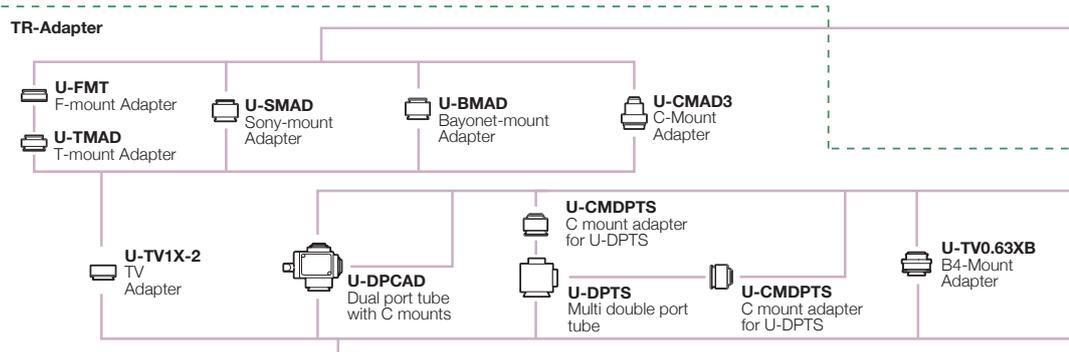
Amyloid

# BX53 SYSTEM DIAGRAM

◆ **WHN10X-H, CROSS WHN10X**  
Eyepieces  
**U-CT30-2**  
Centering telescope

\* **WHN10X, WHN10X-H, CROSS WHN10X**  
Eyepieces  
**U-CT30-2**  
Centering telescope

▲ **SWH10X-H, CROSS SWH10X, MICRO SWH10X**  
Eyepieces  
**U-CT30-2**  
Centering telescope



\*1 Slight vignetting may occur in combination with an additional intermediate attachment or observation method. \*2 Require an additional intermediate attachment or fluorescence illuminator. \*3 Cannot be used with U-TTLBI. \*4 Compatible with FN 22. \*5 Cannot be used with BX3-URA. \*6 Stand is a standard equipment of the U-MDOSV, BX3-MDO18R, and U-MDO10R3.