



# Trinocular Fluorescence Microscope Model – PZQ-106D

---



**Quasmo** Motorized Fluorescence Microscope optical performance and ease of use, and is ideal for scientific tasks. It is the perfect laboratory microscope for life sciences, histology, microbiology etc.,



# Motorized Fluorescence Microscope

## Model – PZQ-106D

---

### Specifications:

**Microscope type:** Upright fluorescence microscope with ergonomic design and modular frame.

**Optics:** Infinity corrected optical system.

**Eyepieces:** Eyepieces with minimum 10X magnification, diopter adjustment, and field of view 22 mm.

**Nosepiece:** Revolving nosepiece with DIC prism slot or slider, capacity to accommodate 6 objectives simultaneously.

**Observation Tube:** Trinocular wide field FN 22, three-way light path distribution (100:0, 20:80/50:50, 0:100) for simultaneous viewing and imaging. Inclined at 30° for efficient observation. Supplied with paired wide field eyepieces..

**Motorized Stage:** Rectangular mechanical stage Size 150x135 with X–Y motion 75x52 control on right-hand side, capacity to hold two slides at once. Anti-corrosive/ceramic-coated finish. **(Optional)**

**Condenser:** Universal condenser with 6 or more optical element slots, including indication plate (NA 0.9). Range 1.25X–100X, swing-out: 1.25X–4X, with dry top lens (NA 0.9). Built-in polarizer.

**Illumination:** High-intensity transmitted LED or 12V 100W halogen light source. Lamp lifespan of at least 20,000 hours or more.

**Objectives:** High-resolution objectives for BF, DIC, and fluorescence observations. Transmittance 90% in visible range (transmittance curve and link required in tender). Fluorite/Plan Semi Apochromat 4X/5X (4X, N.A 0.13, W.D 17.1mm), Fluorite/Plan Semi Apochromat 10X (10X, N.A 0.3, W.D 10mm), Fluorite/Plan Semi Apochromat with DIC 20X (20X, N.A 0.5, W.D 2.0mm), Fluorite/Plan Semi Apochromat with DIC 40X (40X, N.A 0.75, W.D 0.51mm), Plan Apochromat 100X oil with DIC (N.A. 1.40 WD 0.14mm), DIC attachments for 20X, 40X, and 100X objectives.

**Fluorescence Attachment:** Reflected light fluorescence illuminator with shutter, field stop, aperture stop, and 6-position or more mirror unit turret. Broad spectrum white LED fluorescence light source with ≥ 20,000-hour lifetime and adjustable intensity. Narrow band pass fluorescence filters for UV excitation/DAPI, Blue excitation/FITC, and Green excitation/TRITC.

**Transmitted Illumination:** Ergonomic stand with ≥ 14W LED transmitted light source. Frame/light source compatible with 100W.

**Digital Camera:** High-resolution digital color camera, minimum 10 MP, 1-inch CMOS sensor, global shutter. Pixel size ≥ 3.45 μm × 3.45 μm, 10-bit, gain 1–24. C-mount/F-mount adaptor. Exposure mode: manual and auto. Adjustment: –2 to +2 (1/6 step) Auto exposure: AE lock, AE slowdown. Manual exposure: 27 μs–15 s; Auto: 27 μs–15 s Resolution: 4104 × 2174 (full), 3840 × 2160 (4K). Frame rate: 32 fps (full resolution), up to 64 fps Interface: USB 3.1.

**Accessories:** Built-in intensity attenuator. High-performance light guide to prevent heat transmission to the sample.



# Motorized Fluorescence Microscope

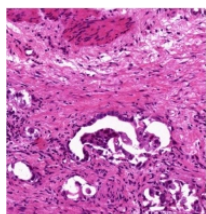
## Model – PZQ-106D

**Image Analysis Software:** Compatible for bright field, phase contrast, and immuno fluorescence imaging. Features include: Multiple image overlay and side-by-side comparison Object/touch count with export to Excel Channel merging and extraction Time-lapse imaging Manual multi-image alignment and extended focus imaging Image stitching Geometry, filtering, region and line measurements Documentation, collaboration, movie playback, tile view, snap/movie acquisition Interactive measurement Imaging in both monochrome and color modes with reporting and overlays Counting modules included.

**Computer:** Branded PC workstation with latest generation Intel i5 processor, minimum 16 GB RAM, 1 TB SSD, 24-inch HD monitor, keyboard, optical mouse, Windows OS. Supplied with branded 1 KVA UPS and branded multipurpose color printer.

**Warranty:** 3 Years from the date of Installation. CAMC as required.

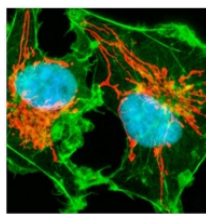
**Certifications:** ISO, ISI, CE, European CE, USFDA, etc.



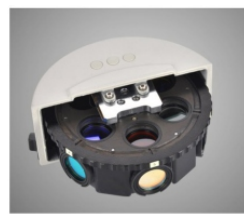
Gastric Adenocarcinoma Cell



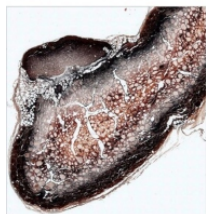
**Remote Control Pad**  
Objectives could be switched by simply pressing the rotating buttons. Users could also self-define two of the most commonly used objectives. User could swap between these two objectives by pressing the green button.



Animal Fiber Cell



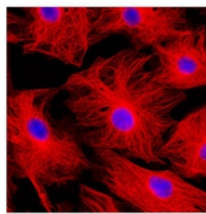
**Excellent Fluorescent Viewing**  
All the fluorescent filter blocks use the high-performanced filter lens. The reflected Light source body can assemble 6 filter blocks, that allows operators to view different stained specimens at the same time.



Thyroid Parafollicular Cell



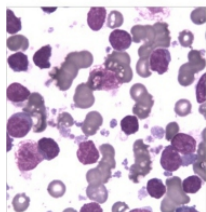
**Nosepiece Rotating Buttons**  
This microscope has the function of automatically rotating nosepieces and adjusting the light intensity.



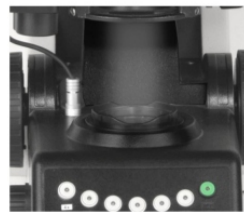
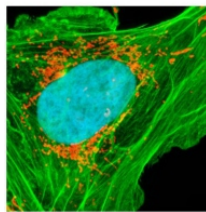
Kidney Epithelial Cell



**Customized Available**  
Customers can choose the position of the fine focusing knob to be right or left, according to preferences.



**Motorized Swing-out Condenser**  
Automatically swing-out and swing-in the top-lens element according to the objective lens that is selected via the intelligent linking.



**Light Intensity Management**  
No need to adjust the light intensity by hand when switch the objectives The long-life LED lamp can keep the light intensity and easy for maintenance.