

PANTHERA

Motic®

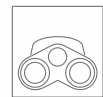
MORE THAN MICROSCOPY



LS

PANTHERA
LIFE SCIENCES

COMPUTER-FREE MICROSCOPY AT YOUR FINGERTIPS



Binocular head



Smart CAM digital head



NEW Plan UC objectives



Rackless & compact mechanical stage



Smart Microscope ImagingOnDevice



Wi-Fi, USB, HDMI, LAN



QRlink Panthera App



Integrated USB for external devices



Motic LightTracer smart illumination



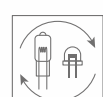
Quintuple coded nosepiece



Digital light intensity knob



LED light intensity indicator



Halogen / LED interchangeability



LED color temperature interchangeability

PANTHERA L

LIFE SCIENCES

The Panthera L is a fully-integrated digital imaging station. Unique to the market, this microscope contains not only a smart illumination system, but also an integrated high resolution camera. All digital features can be controlled from the tip of your finger through an intuitive multi-function haptic-interface wheel.

By using the Panthera L microscopy system, you can easily memorize and recall the illumination intensity for each magnification. If you like to save and share what you are looking at, you can quickly capture a high resolution image in full knowledge that the pictures you take are not only parfo-cal, but also colour-balanced. Each image is automatically tagged with the precalibrated magnification so that you can open the captured image using the Pathera App and immediately measure and annotate it.

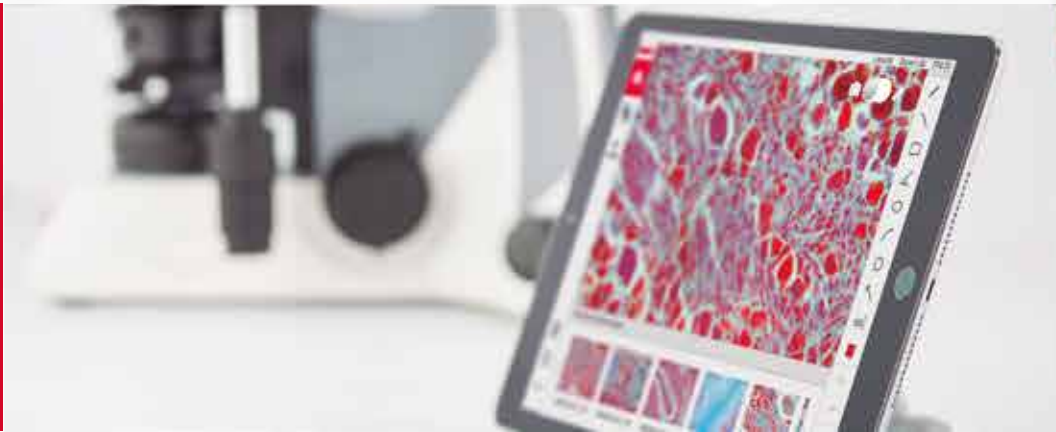
Being an integrated digital system, the Panthera L can accept USB devices such as wireless keyboard and mouse as well as Wi-Fi dongles which will allow a user to view the live image wirelessly on portable tablets, phones or other computers.

The built-in system allows the Panthera L to be used on its own or with any HDMI screen making it a truly versatile and novel addition to any laboratory.

Your Motic Team

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MECHANICS

The next-generation Panthera L solution not only contains the most up-to-date electronics, but also features Motic's newest mechanics and ergonomic designs. From the 360° rotating eyepiece tubes to the low-positioned rackless mechanical stage this microscope assures comfortable use for hours at a time. Our brand-new dual slide holder sits flush on the rackless stage which is designed with an angled lip to avoid accidental damage when inserting a new prepared slide.

Packed with well thought-out features, the Panthera L has a surprisingly small footprint and therefore takes up only very little desk space. Although the Panthera L has an integrated imaging system, you will find no unsightly cables connecting the head to the microscope body. Instead, the system has all ports and access controls placed at the back base, making power cable and port extension neat and tidy.

OPTICS

Being a Life Science platform, the optics represent the core function of the Panthera L. Our newly-designed Plan UC objectives deliver ultra-contrast and flat images no matter what magnification is being used.

The standard set delivered with the microscope includes Plan UC 4x, 10x, 40x and 100x objectives. Coupled with the standard 22mm field of view, high eye-point UC Eyepieces, this microscope is the ideal tool for a multitude of challenging applications.

The full Koehler system includes a centerable condenser 0.90/1.25NA with slots ready to add optional contrast sliders.

Magnification	N.A.	W.D. (mm)
Plan UC 2X	0.05	7.2
Plan UC 4X	0.1	30.5
Plan UC 10X	0.25	17.4
Plan UC 20X	0.45	0.8
Plan UC 40X	0.65	0.6
Plan UC 60X	0.8	0.35
Plan UC 100X	1.25 Oil	0.16
Plan UC 100X	0.8	2



LED light intensity indicator



Digital light intensity knob



HAL / LED easy interchangeability



Focusable Abbe condenser N.A. 0.90



ILLUMINATION

The Panthera L features a switchable illumination system. You can choose between Halogen and two high-power LED trays with different colour temperatures. Changing illumination is as simple as sliding out one tray and replacing it with another; no tipping the microscope over or complicated rewiring required.

The 0.90 / 1.25NA Abbe condenser accepts all accessories that have been used in the current Motic BA210 and BA310 line. If your lab already has this range, you do not need to buy anything else.

With the Panthera L being a unique digital system, it has a built-in LightTracer digital illumination management system allowing each user to set the brightness of the light and save it to each objective. Thanks to the coded nosepiece, this allows for accurate repetition of each observation as well as making the microscope easier and more comfortable to use.

The nosepiece itself features a unique LED feedback system which will show the user the current illumination intensity, when an image has been captured and it will also indicate to you when the system has gone into power-saving mode.

ACCESSORIES

The Panthera platform is continuously being expanded and several contrast methods will be offered including differential as well as modulation contrast. With it being a modular system, existing accessories such as Darkfield and Phase Contrast attachments can also be used with the Panthera series.



DIGITAL FEATURES

The Panthera L is a versatile microscope indeed. It can be used as a normal microscope with the integrated LightTracer illumination management system and a full Koehler setup. With the ImagingOnDevice technology integrated into the microscope, you can not only capture images onto the unit's internal memory, but by connecting to an HDMI screen and attaching a wireless keyboard and mouse, you unlock a whole new dimension to the microscope. Because the Panthera now allows you to:

- View a live preview of what the camera sees before you capture a high resolution picture.
- Review the captured images and quantify each by measuring and annotating, all on the microscope's system.
- Attach a Wi-Fi dongle to one of the Panthera L's USB ports and transmit the live image to other devices – from phones to tablets and computers.
- Enable any person with a mobile Wi-Fi device to automatically connect to the live stream by scanning the microscope's unique QR code that is printed on the Panthera L's head (QR-Link).
- Take your findings and images further by creating custom reports without the need to transfer the images to another computer.
- Rest assured in the knowledge that each image is stored with the full calibration settings to allow the user to accurately measure and annotate on the image at any time.





QR-Link



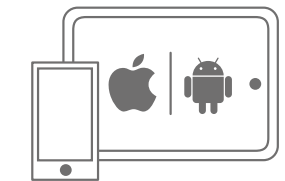
Download the Panthera App to your tablet or smartphone and capture the QR code on the microscope to link the live image to your tablet instantly.



Digital light intensity knob
Capture instantly what you are viewing through the microscope, just pressing the light intensity knob.



Wi-Fi



Panthera App



Motic Images Plus 3.0
Image Analysis Software

Download the Panthera App to your tablet or smartphone and view, capture, edit and share your microscope image with up to 6 devices at the same time. You can also work with your computer and our Motic Images Plus 3.0.



HDMI



Camera's embeded
Software (Panthera App)



Plug the Panthera to a HD screen or projector and work with the Panthera built-in App software thanks to its ImagingOnDevice system and the help of a mouse or a keyboard.



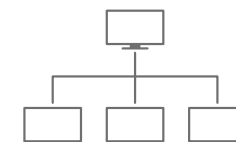
USB



Add accesories to your Panthera, like a keyboard, a mouse, or plug a USB memory stick to store your images.



RJ-45



Motic Images Plus 3.0
Image Analysis Software

Connect it to a network to run a DigiClass, for remote sharing or for working with our well-known Motic Images Plus Software in your computer.

TECHNICAL SPECIFICATIONS

Model	Panthera L (Life Sciences)
Optical system	CCIS®
Observation system	Binocular Siedentopf type 25° inclined, 360° swiveling
Interpupillary distance (mm)	48-75mm
Eyepieces	Widefield high eyepoint eyepieces UC-WF10X/22
Eyepieces diopter adjustment	+/- 5 dpt
Nosepiece	Reversed quintuple, coded
Standard objectives	Plan UC 4X, 10X, 40X and 100X S-Oil
Optional objectives	Plan UC 2X, 20X, 60X and 100X Dry
Positive Phase objectives	Plan UC Phase 10X, 20X, 40X, 100X
Stage	Compact rackless stage
Stage size (mm)	185x145
Travel range (mm)	75x50
Upper limit stop	Preset; adjustable
Standard condenser	N.A. 0.90 /1.25 Abbe condenser with slider slot
Optional condenser	Swing in/out condenser
Focus mechanism	Coaxial; tension adjustment
Minimum fine focus precision (µm)	2
Z-axis movement (mm)	25
Illumination	3WLED/30W Halogen interchangeable (Koehler)
Power supply	110-240V (CE)
Dimensions L x W x H (mm)	285x210x382
Weight (kg)	10

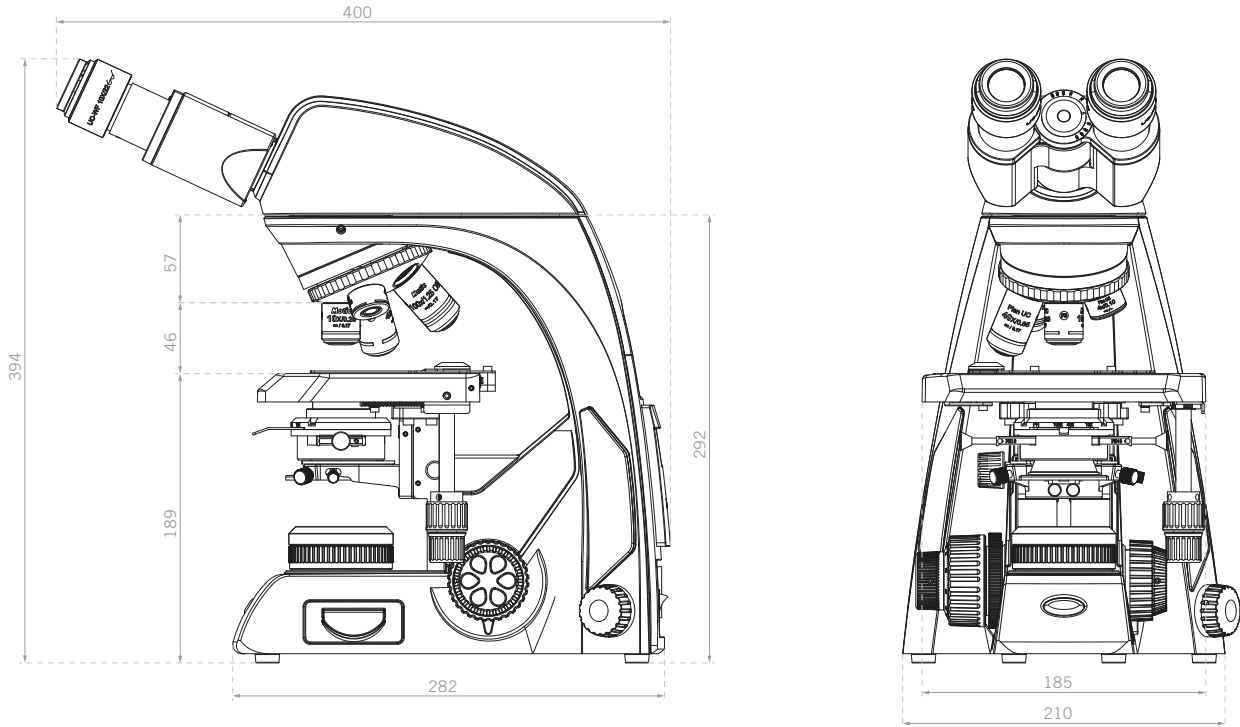
Digital Features

Connectivity	Built-in Smart CAM digital head ImagingOnDevice system (Panthera App embeded software) HDMI (1080i - FullHD) USB 2.0 for external devices (2x) RJ-45 (1 GB LAN) Wi-Fi through USB dongle 5 GB Internal Memory
Digital Light management	Motic LightTracer system LED light intensity indicator Sleep mode (auto on-off function)

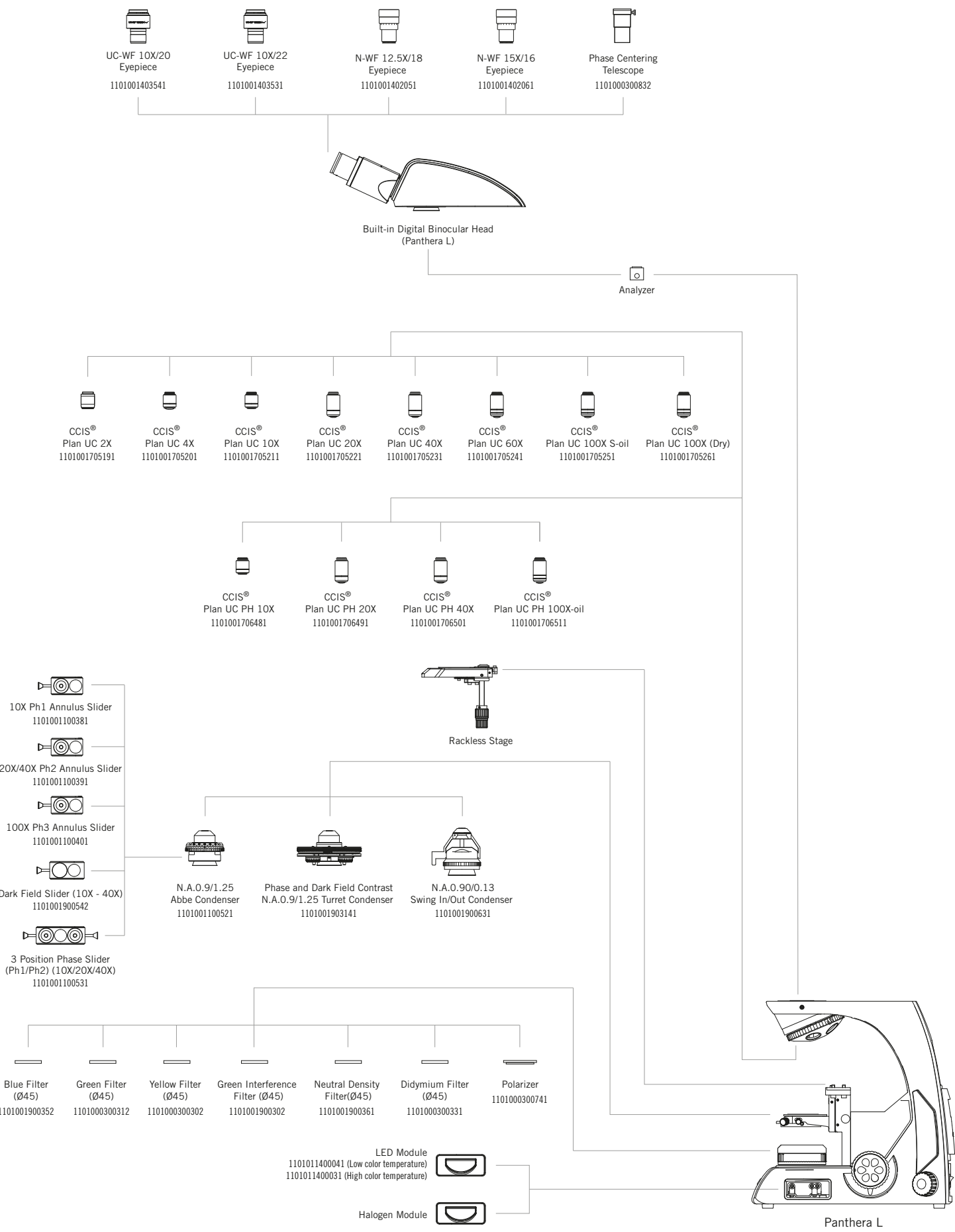
Contrast Techniques

Brightfield	Yes
Phase Contrast	Slider & Turret
Simple Polarization	Yes
Simple Darkfield	Slider & Turret
LED Fluorescence	Yes

SCHEMATIC DIAGRAMS (mm)



SYSTEM DIAGRAM





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Design Change: The manufacturer reserves the right to make changes in instrument design in accordance with scientific and mechanical progress, without notice and without obligation.

Designed in Barcelona (Spain)

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Official Distributor: