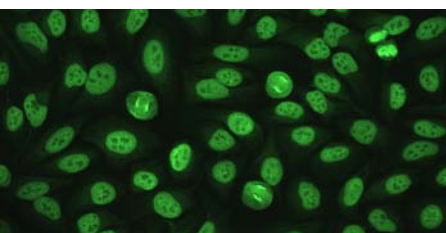


LS

# PA53 6FL

Fluorescence Microscope



# A COLORFUL EXPRESSION

Fluorescence is a molecular phenomenon of spontaneous light emission from a substance after being excited. The emitted light is always of lower energy (longer wavelength) than the excitation energy.

The excitation/emission process is extremely sensible, making fluorescence the most complex contrast method in widefield microscopy. An incorrect setup may cause more than a bad image: there might be no visible signal at all.

## A SIMPLIFIED APPROACH TO FLUORESCENCE

- Specific dyes have been developed to selectively stain parts of a specimen. These dyes are called fluorochromes.
- A selected wavelength is applied to the sample (excitation); this wavelength refers to the absorption maximum of the fluorochrome.
- Energy is absorbed by the fluorochrome, shifting it to a higher energy level.
- The excited state of the fluorochrome lasts only a split second; falling back to the original energy level is accompanied by an emission of light.
- As the emission comes along with a partial energy transformation, all emission is less energetic than its corresponding excitation.
- “Stokes shift” describes this effect: The emission is always shifted to a longer wavelength (color).

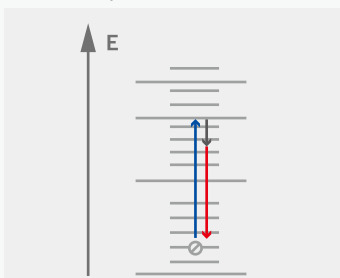
As the energy relation of excitation to emission is 10.000:1, a maximum efficient hardware setup has to be targeted.

Motic fluorescence light sources are using high Power LED or traditional Mercury-Arc Lamps ensuring a bright and even Illuminated Fluorescence Image. Broadband Mercury-Arc Lamps for great wavelength flexibility or 3-Channel high power LED Lamps for extreme long lifecycle and ultrafast Powercycles.

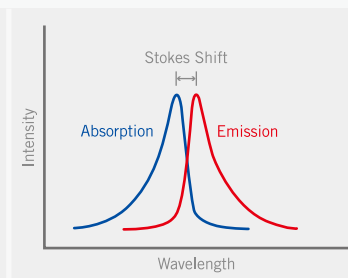
Motic Plan UC Fluor Objective Series are providing a ultra-flat high-contrast image from VIS to Ultraviolet Spectrum. In VIS Spectrum Motic Plan Apochromatic Objective Series are delivering a additional perfect choice of amazing imaging performance.

UV excitation → BLUE emission  
BLUE excitation → GREEN emission  
GREEN excitation → RED emission

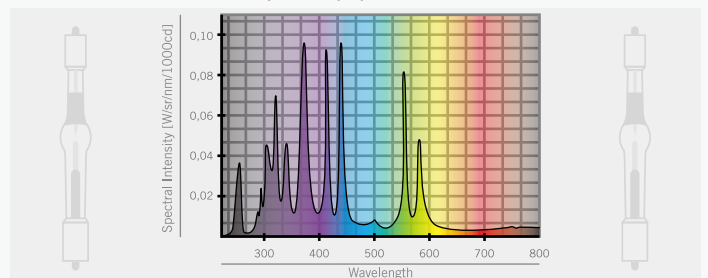
Principle of excitation/emission



Stokes Shift

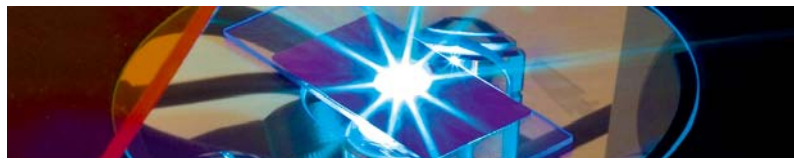


Mercury Arc Lamp Spectral Distribution



PLAN FLUOR OBJECTIVES

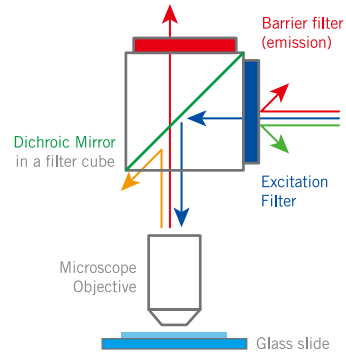
| Objectives         | N.A.    | W.D. (mm) |
|--------------------|---------|-----------|
| Plan UC Fluor 4X   | 0.13    | 17.3      |
| Plan UC Fluor 10X  | 0.3     | 11.7      |
| Plan UC Fluor 20X  | 0.5     | 2.2       |
| Plan UC Fluor 40x  | 0.75    | 0.7       |
| Plan UC Fluor 100x | 1.3 oil | 0.1       |



Motic's fluorescence filter cubes can be used on both upright and inverted microscopes.  
Following the microscope type, the fluorescence ray path requests a different filter cube orientation.

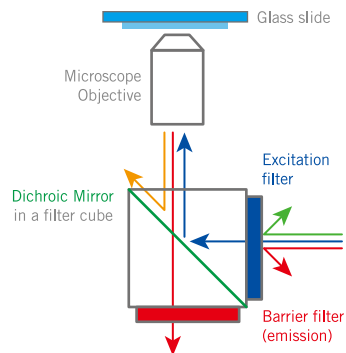
**UPRIGHT MICROSCOPE - PA53 6FL**

**FILTER CUBE ORIENTATION**



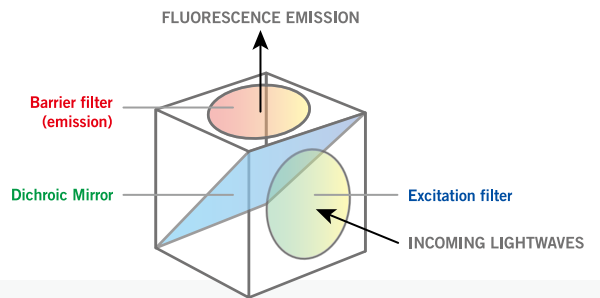
**INVERTED MICROSCOPE - AE31E**

**FILTER CUBE ORIENTATION**



A standard Fluorescence filter cube consists of a combination of 3 independent yet inter-coordinated filters:

- Excitation filter
- Dichroic Mirror
- Barrier filter (emission)



The excitation filter has a band pass characteristics, opening a defined sector within the spectrum of the light source to match the absorption peak of the fluorochrome.

In a given filter specification, the excitation peak of the filter is specified by the first numeric value, while the width of the excitation sector at 50% of the maximum intensity is displayed by the second number (peak width at half height).

A value of 480/30 (nm) for FITC describes a curve of excitation from 465 to 495nm, with a peak around 480nm. The broader the sector, the more energy will excite the sample. A broad sector will result in a strong but unspecific excitation. A narrow sector effectuates a more specific excitation. Filters with narrow excitations are especially desired in case of multiple staining, where excitation maxima of diverse fluorochromes (e.g. GFP mutants) may be close to each other.

The dichroic mirror (from the Greek dikhroos, meaning two-colored) is a long pass filter which starts transmission from the specified wavelength on (e.g. 505nm in FITC). For shorter wavelengths the dichroic is impervious and thus acts as a mirror. So the separation of excitation light and emission signal is achieved.

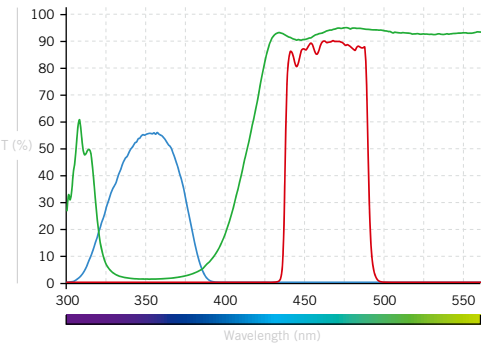
The emission (also called barrier) filter may be designed with long pass or band pass characteristics. The long pass displays all emissions from the stated wavelength on (515nm in FITC), resulting in a mixed color image, while the band pass construction cuts out a pure color. Multiple staining always requests band pass emission filters, as the single signals have to be separated.

To select the correct filter cube, the applied dyes and their excitation/emission maxima have to be carefully taken into consideration. A standard equipment may include DAPI, FITC and TRITC filter cubes, which will cover common dyes in clearly separate sectors of the light spectrum.

# MOTIC'S STANDARD FILTER COMBINATIONS

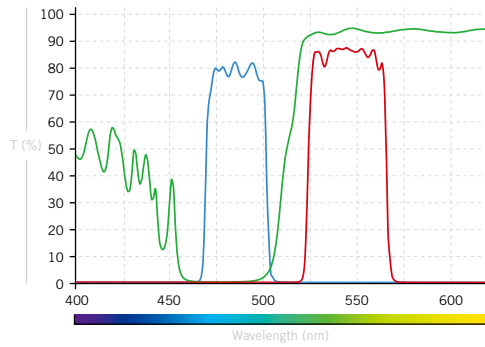
DAPI / Hoechst

Exciter D350/50X Dichroic 400DCLP Barrier D460/50m



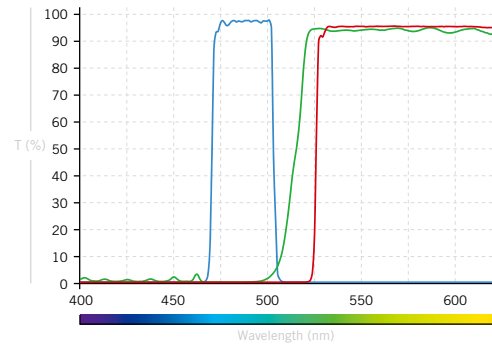
FITC / RSGFP / Fluo3

Exciter D480/30X Dichroic 505DCLP Barrier D535/40m



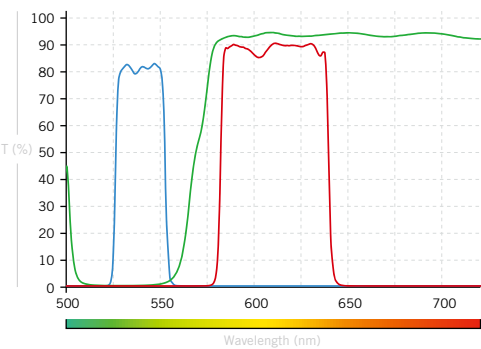
FITC Long pass

Exciter D470/40X Dichroic 505DCLP Barrier E515LPv2



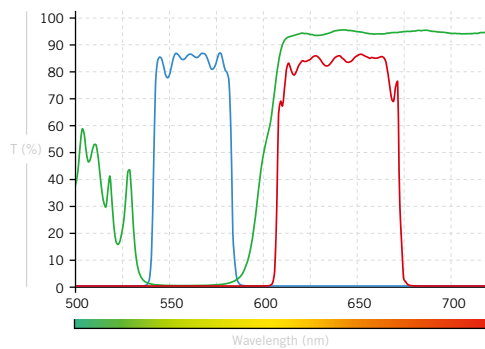
TRITC (Rhodamine) / CY3

Exciter D540/25X Dichroic D565DCLP Barrier D605/55m



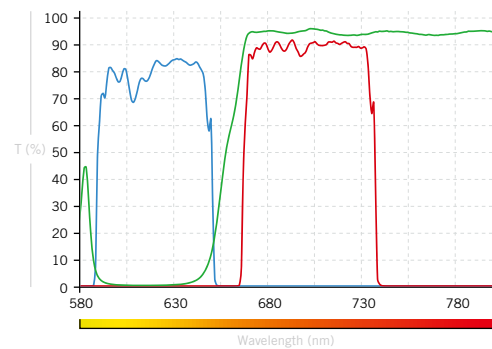
Texas Red / Cy3.5

Exciter D560/40X Dichroic 595DCLP Barrier D630/60m



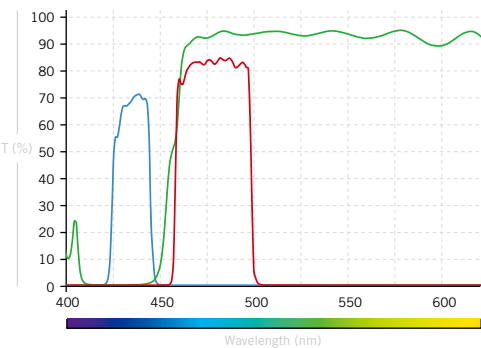
Cy5 / Fluor 633 / Alexa Fluor 647

Exciter HQ620/60X Dichroic Q660LP Barrier HQ700/75m



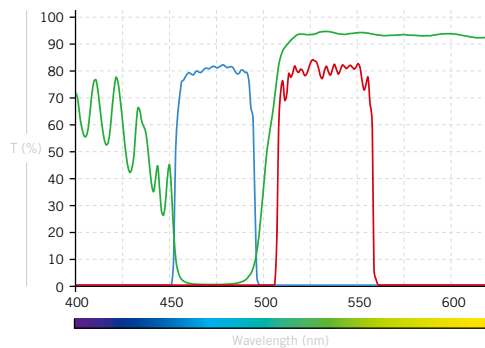
Cyan GFP

Exciter D436/20X Dichroic 455DCLP Barrier D480/40m



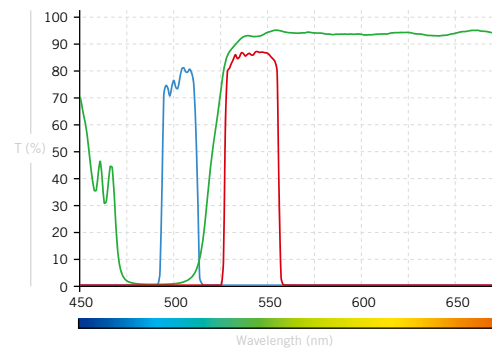
Endow GFP

Exciter HQ470/40X Dichroic Q495LP Barrier HQ525/50m



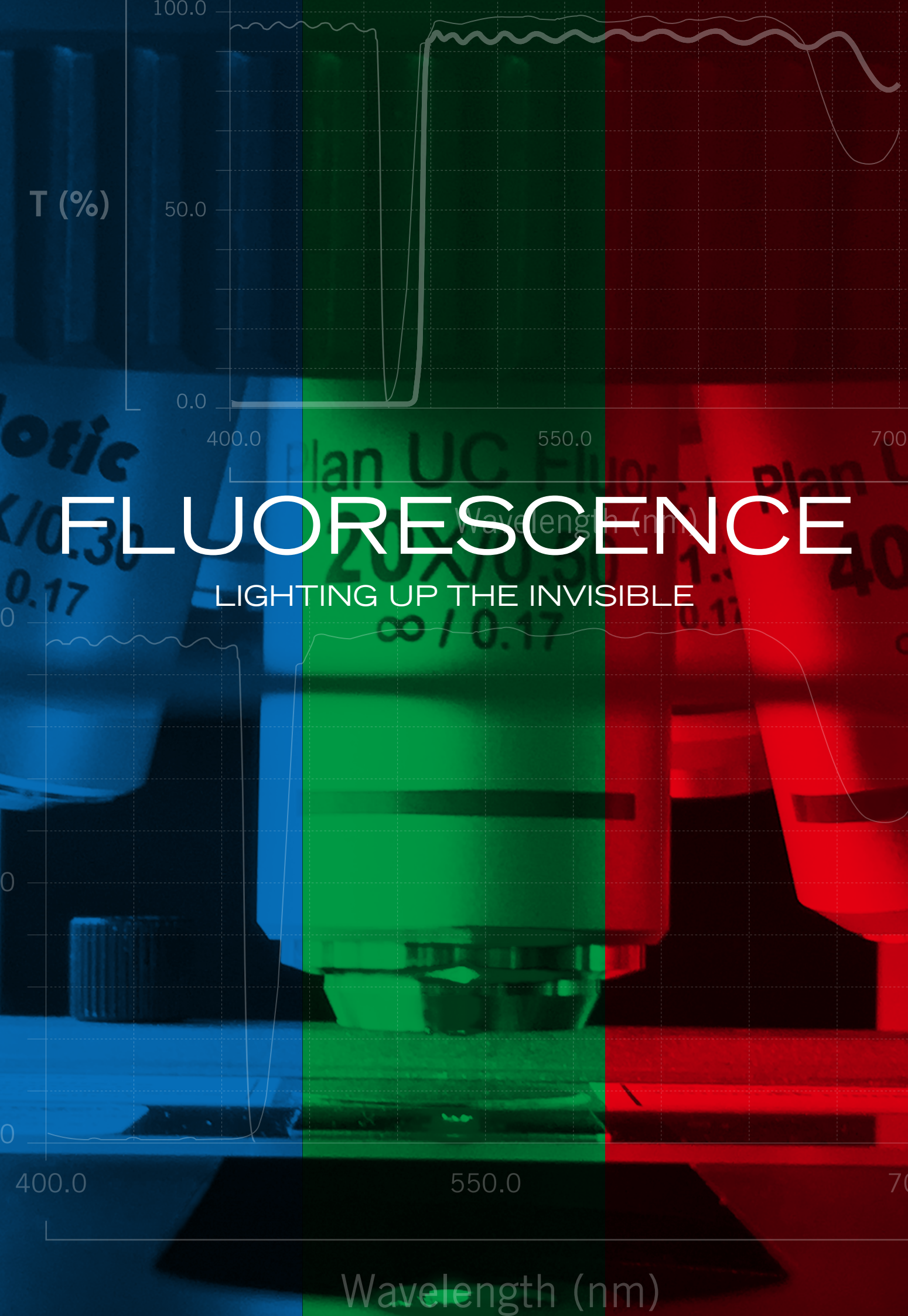
Yellow GFP

Exciter HQ500/20X Dichroic Q515LP Barrier HQ535/30m



## MOTIC'S STANDARD FILTER COMBINATIONS ARE:

| Filter combinations          | Exciter   | Dichroic | Barrier Filter |
|------------------------------|-----------|----------|----------------|
| DAPI/Hoechst                 | D350/50X  | 400DCLP  | D460/50m       |
| FITC/RSGFP/Fluo3             | D480/30X  | 505DCLP  | D535/40m       |
| FITC Long Pass               | D470/40X  | 505DCLP  | E515LPv2       |
| TRITC (Rhodamine) / CY3      | D540/25X  | D565DCLP | D605/55m       |
| Texas Red/Cy3.5              | D560/40X  | 595DCLP  | D630/60m       |
| Cy5/Fluor633/Alexa Fluor 647 | HQ620/60X | Q660LP   | HQ700/75m      |
| Cyan GFP                     | D436/20X  | 455DCLP  | D480/40m       |
| Endow GFP                    | HQ470/40X | Q495LP   | HQ525/50m      |
| Yellow GFP                   | HQ500/20X | Q515LP   | HQ535/30m      |



T (%)

100.0  
50.0  
0.0

400.0

550.0

700.0

Wavelength (nm)

# FLUORESCENCE

LIGHTING UP THE INVISIBLE

400.0

550.0

700.0

Wavelength (nm)



Canada | China | Germany | Spain | USA



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Updated: 15.03.2019

Code: 130090?????



Official Distributor:

**Motic®**

30<sup>+</sup>  
YEARS

**Motic®**  
Scientific



# PA53 BIO / PA53 FS6

Microscopy Solutions for Clinical  
and Life Science Applications

## PA53 Series – Upright Biological Laboratory Microscopes

The PA53 upright biological laboratory microscope series is designed with the user in mind. In keeping with Motic Scientific's mission statement of providing technologies for people at affordable prices, we are proud to offer our new entry level high-end microscope series for clinical and life science applications with an impressively high price to performance ratio. Our PA53 BIO and PA53 FS6 models have an ergonomic design helping to reduce user fatigue during extended periods of use and also feature intuitive control layout for optimized and efficient workflow.

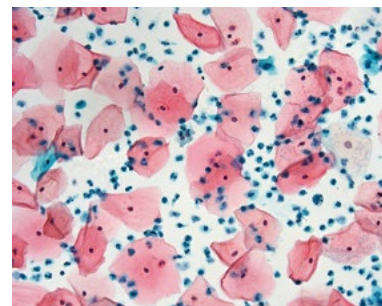
The modularity of the PA53 biological series microscopes offers you flexibility in choosing a cost-efficient or advanced configuration depending on your needs. It also allows the ability to upgrade your configuration should your daily workflow change or require different illumination techniques. Whether you are observing HE stained tissue in brightfield, need to study endothelial cells under phase contrast, diagnose a potential case of gout with polarization or perform advanced FISH/HER2 analysis with bright fluorescence imaging, the PA53 biological series has you covered---and won't break the bank.



PA53 BIO



## Featuring Intelligent & Convenient Functionality Increase Your Work Efficiency and Comfort



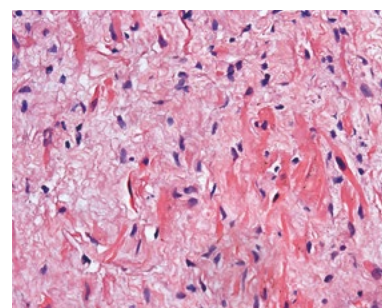
Cytology

### Transmitted, Full Kohler 100W Halogen Illumination

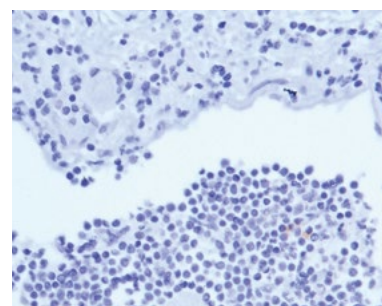
Our standard PA53 BIO and PA53 FS6 configurations are equipped with transmitted, full Kohler 100W halogen illumination. Intelligent heat-reduction engineering ensures you can use our 100W halogen illumination for long periods without worrying about injury due to overheating. Our 100W halogen bulbs also feature a lifespan 5 times higher than traditional 30W halogen bulbs, meaning more time for your lab work.

### Comfortable Viewing

In order to reduce operator eyestrain, our standard PA53 BIO and PA53 FS6 configurations are equipped with super wide-field FN23, diopter adjustable eyepieces. The 30-degree, Siedentopf type observation tube offer light distribution of 100:0, 20:80, and 0:100 and ensures a comfortable viewing angle during extended use. Furthermore, the prismatic lenses used provide strong chromatic aberration correction, ensuring you are viewing your samples in true-to-life colors.



Haematoxylin and Eosin Stain (HE)



Immunohistochemistry (IHC)

### Convenient, Multifunctional Illumination Control Knob

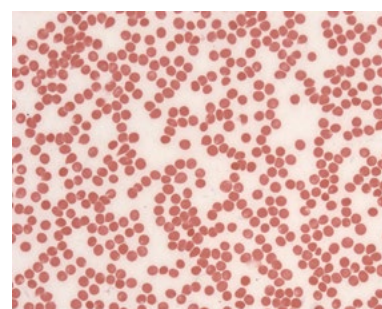
With your workflow and ease of use in mind, our PA53 BIO and PA53 FS6 models come standard with multifunctional illumination control knobs. Control illumination intensity or switch between reflected and transmitted light with ease.

### Environmentally Friendly ECO Function

An automatic power saving mode is engaged whenever an operator leaves temporarily. This power saving mode is enabled to protect your samples from the heat of the illuminator. ECO mode also results in energy savings which extend the lifetime of the lamp and reduce overall operational costs.

### Consistent, Even Illumination with IL Function

Working efficiency is further increased by providing an optimized consistent, even brightness in illumination with the IL function. With the IL function engaged, the brightness level will be maintained even if the observation magnification is changed during observation.



Hematology

## PA53 FS6 – Upright Fluorescence Microscopes

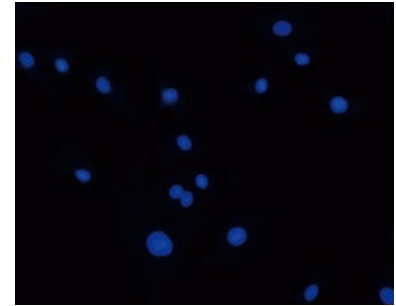
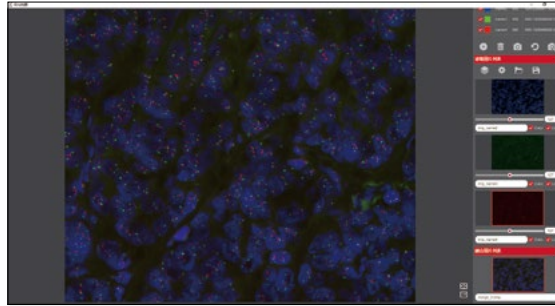
The PA53 FS6 offers a reflected fluorescence illumination system with our high-powered LUMOS LED or traditional mercury-arc lamp set-up. Up to six filter cubes can be inserted into the coded fluorescence turret to ensure optimal multi-color fluorescence observation. Our standard configuration PA53 FS6 features mounted, high quality DAPI, FITC, and TRITC filter cubes in addition to 2 empty filter cubes which can be mounted by the user depending on their specific research or application needs. We also offer a mounted filter cube for FISH analysis which is recommended to be used with our long lifecycle (20,000 + hours) LUMOS LED.

Our expertly designed, carefully in-house crafted, high-performance Plan UC Fluor objectives provide an ultra-flat, high-contrast image perfect for use with the LUMOS FL LED Lamp to obtain high quality bright fluorescence imaging in the UV-Visible light range.



PA53 FS6

# From Simple Measurements to Complicated Analyses Our Superior Optical Performance Fulfills Your Needs



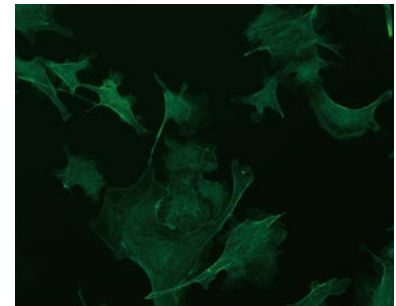
DAPI  
Exciter filter (wave length) : D350/50x nm  
Beam splitter filter (wave length) : 400DCLP nm  
Emitter filter (wave length) : D460/50m nm

## Fluorescence Module

The coded fluorescence turret automatically remembers the fluorescence channel and each channels brightness. This avoids the issue of stray light and saves you from having to purchase expensive OD6 or OD8 filters to increase fluorescence performance.

## Motic Fluorescence Imaging Software

Our Motic Fluorescence Imaging Software plug-in for Motic Images Plus 3.0 is included with all PA53 FS6 purchases. It was developed in-house and offers a professional fluorescence digital image processing solution for multi-channel imaging. This software supports up to four channel imaging which can then be merged to meet FISH and other fluorescence imaging analysis applications.

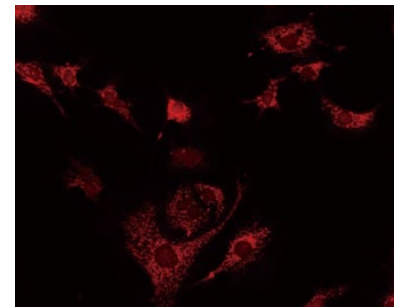


FITC  
Exciter filter (wave length) : D480/30x nm  
Beam splitter filter (wave length) : 505DCLP nm  
Emitter filter (wave length) : D535/40m nm

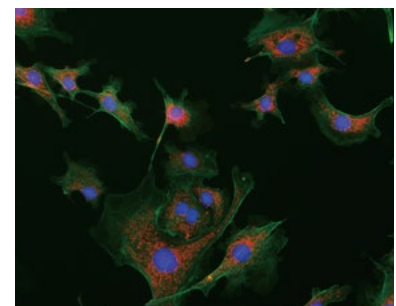


## LUMOS FL : High-Powered UV-BG Fluorescence LED Lamp

- ◆ Features apochromatic design.
- ◆ Compared to the lifespan of only 200 hours and the high cost of mercury-arc lamps, the LUMOS FL provides over 20,000 hours of use.
- ◆ No light toxicity like traditional mercury-arc lamps which can damage samples with infrared light heat toxicity.
- ◆ Instant On/Off: Unlike traditional mercury-arc lamps which take up to 20 minutes to reach optimal brightness levels when turned on, the LUMOS FL is ready for use at the flip of a switch.
- ◆ Does not pose toxic gas danger to users.
- ◆ Avoids stray light interference during observation, helping to avoid errors in user interpretation of images.
- ◆ Individually controls each LED channel and eliminates need for multiple filters therefore reducing filter cube expense.
- ◆ Features a broad spectrum spread which can satisfy multiple user applications.



TRITC  
Exciter filter (wave length) : D540/25x nm  
Beam splitter filter (wave length) : 565DCLP nm  
Emitter filter (wave length) : D605/55m nm



RGB Three channels Integration



## High Performance sCMOS Technology

The new Moticam S line of cameras mark yet another milestone in Motic's digital microscopy expansion. By utilizing the latest sCMOS sensors coupled with our own PCB design and on-board image management systems, each Moticam S promises to deliver professional digital microscopy solutions at an affordable price. This new scientific grade Moticam line is designed and manufactured totally in-house under strict German quality guidelines. Whether for Clinical, Research or Industrial use, this new generation of Moticam has a model for even the most demanding users. The Moticam brand is recognized around the world as representing easy to use and adaptable attachable cameras for virtually any microscope. At Motic, we believe in making quality Digital Microscopy affordable for everyone and we know that you will enjoy this new line.

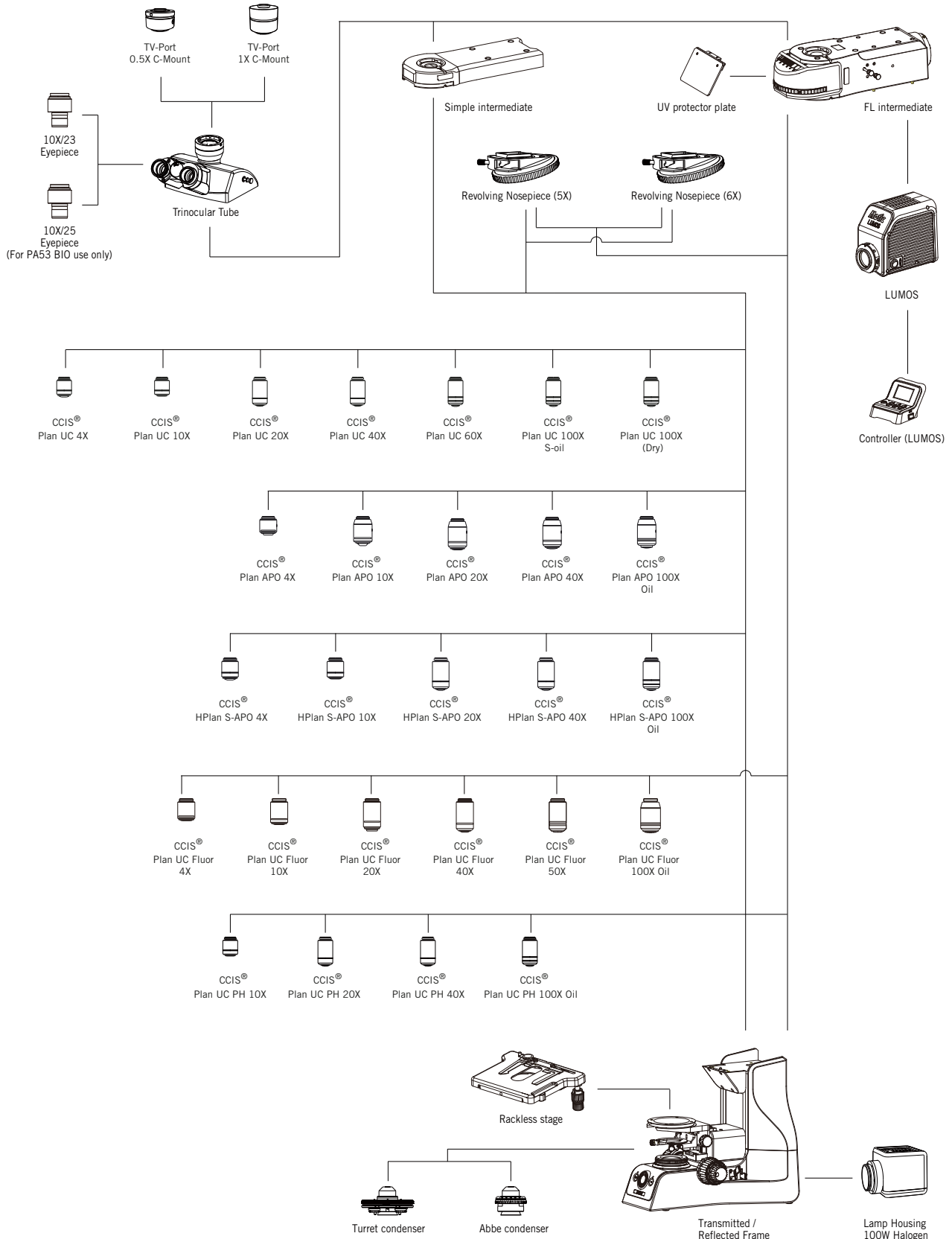
### Key Features

- ◆ Super-fast frame rates with USB 3.1 data transfer.
- ◆ Offers resolution up to 12 MP.
- ◆ Rolling shutter or global shutter models depending on your specific application.
- ◆ Excellent true color reproduction.

## MOTICAM S TECHNICAL SPECIFICATIONS

| Moticam                                     | S1                                                                                                                                                                                                      | S3                | S6                | S12               | MoticamProS5 Lite        | MoticamProS5 Plus  |
|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|--------------------------|--------------------|
| Sensor Type                                 | CMOS                                                                                                                                                                                                    |                   |                   |                   |                          |                    |
| Sensor Size                                 | 1/3"                                                                                                                                                                                                    | 1/2.8"            | 1/1.8"            | 1/1.7"            | 2/3"                     | 2/3"               |
| Resolution                                  | 1.2M                                                                                                                                                                                                    | 3M                | 6M                | 12M               | 5M                       | 5M                 |
| Imaging Area (Diagonal)                     | 6.09mm                                                                                                                                                                                                  | 6.44mm            | 8.92mm            | 9.33mm            | 11.1mm                   | 11.1mm             |
| Pixel Size                                  | 3.75µm x 3.75µm                                                                                                                                                                                         | 2.5µm x 2.5µm     | 2.4µm x 2.4µm     | 1.85µm x 1.85µm   | 3.45µm x 3.45µm          | 3.45µm x 3.45µm    |
| Max. Frame Rate:                            | 1280x960@120fps                                                                                                                                                                                         | 2048x1536@60fps   | 3072x2048@30fps   | 4000x3000@25fps   | 2448x2048@35.7fps        | 2448x2048@68.3fps  |
|                                             | 640x480@240fps                                                                                                                                                                                          | 1920x1080@60fps   | 1536x1024@50fps   | 2048x1080@50fps   | 1224x1024@88.4fps        | 1224x1024@175.8fps |
| Scan Mode                                   | Progressive                                                                                                                                                                                             |                   |                   |                   |                          |                    |
| Shutter Mode                                | Rolling Shutter                                                                                                                                                                                         | Rolling Shutter   | Rolling Shutter   | Rolling Shutter   | Global Shutter           | Global Shutter     |
| Data Transfer                               | USB3.1                                                                                                                                                                                                  |                   |                   |                   |                          |                    |
| Exposure Time                               | 15us~2sec                                                                                                                                                                                               | 21us~2sec         | 16us~2sec         | 22us~2sec         | 14us~2sec                | 7us~2sec           |
| Sensitivity (G)                             | 2350 mV @ 1/30 sec                                                                                                                                                                                      | 600 mV @ 1/30 sec | 425 mV @ 1/30 sec | 280 mV @ 1/30 sec | 1146 mV @ 1/30 sec       | 1146 mV @ 1/30 sec |
| Focusable Lens                              | 12mm                                                                                                                                                                                                    | 12mm              | 16mm              | 16mm              | 16mm                     | 16mm               |
| Power consumption                           | less1.0W@ 5V(USB-supply)                                                                                                                                                                                |                   |                   |                   | less1.5W@ 5V(USB-supply) |                    |
| Lens Mount                                  | CS-Mount                                                                                                                                                                                                |                   |                   |                   |                          |                    |
| Support Device                              | TWAIN, SDK and DirectShow Driver                                                                                                                                                                        |                   |                   |                   |                          |                    |
| Supported OS (Recommended)                  | Higher than Microsoft Windows7/8/10, MAC OSX10.9 and Linux                                                                                                                                              |                   |                   |                   |                          |                    |
| Minimum Computer Requirements (Recommended) | 2GHz Dualcore, RAM memory 2GB and Video Memory Min 512MB                                                                                                                                                |                   |                   |                   |                          |                    |
| Operating Temperature                       | From -10 to + 60 degree celsius non condensing                                                                                                                                                          |                   |                   |                   |                          |                    |
| Package Includes                            | CS Ring Adaptor, Calibration Slide, USB3.1 cable, Image Plus 3.0 for PC / OSX / Linux(Accessories Package)<br>Focusable Lens, 30mm and 38mm Eyepiece Adaptor, Macro Tube and Macro Tube Calibration dot |                   |                   |                   |                          |                    |

# SYSTEM OVERVIEW

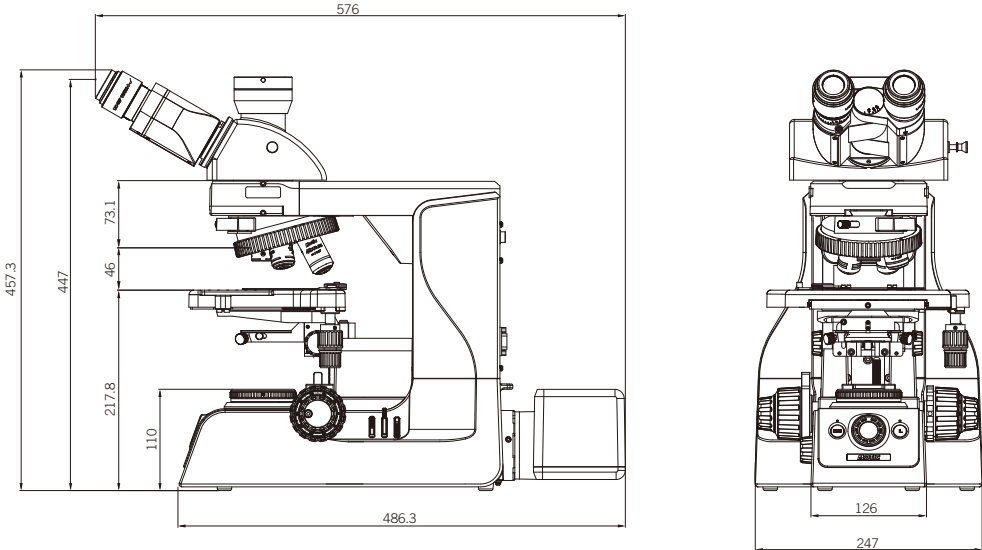


# SPECIFICATIONS

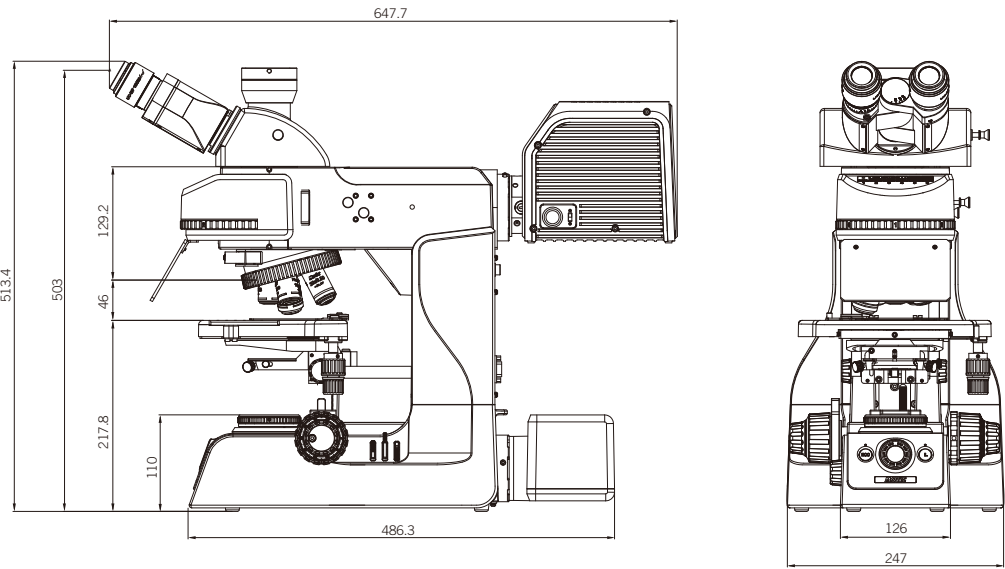
| Model                         | PA53 BIO                                                                                                                                                                                                                                                                                                                      | PA53 FS6                                                                                                                                                                                                                                            |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical System                | Scalable Infinity-Corrected Optical System(CCIS®)                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                     |
| Illumination                  | Transmitted Illumination System                                                                                                                                                                                                                                                                                               | Transmitted / Reflected Fs Illumination System                                                                                                                                                                                                      |
| Transmitted illumination      | Kohler illumination 100W long life halogen lamp                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |
| Reflected Flour Illumination  | /                                                                                                                                                                                                                                                                                                                             | High-power LED Flour Light source                                                                                                                                                                                                                   |
| Observation Tube              | 30°Trinocular (100:0,20:80,0:100)                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                     |
| Eyepieces                     | Wide-Field(FN23) Eyepiece 10X/23mm, Diopter adjustable                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                     |
|                               | Wide-Field(FN25) Eyepiece 10X/25mm, Diopter adjustable                                                                                                                                                                                                                                                                        | /                                                                                                                                                                                                                                                   |
| Nosepiece                     | Coded Quintuple(5) revolving nosepiece                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                     |
| Recommended Objectives        | Plan UC Achromat Series<br>Plan UC 4X/0.1, W.D=30.5mm,CG=0.17<br>Plan UC 10X/0.25, W.D=17.4mm,CG=0.17<br>Plan UC 20X/0.45,W.D=0.8mm,CG=0.17 (Optional)<br>Plan UC 40X/0.65,W.D=0.6mm,CG=0.17<br>Plan UC 60X/0.8,W.D=0.35mm,CG=0.17 (Optional)<br>Plan UC 100X/1.25 Oil,W.D=0.16mm,CG=0.17<br>Plan UC 100X/0.8,W.D=2mm,CG=0.17 | Plan UC Fluor Series<br>Plan UC Fluor 4X/0.13,W.D=17.3mm,CG=0.17<br>Plan UC Fluor 10X/0.3,W.D=11.7mm,CG=0.17<br>Plan UC Fluor 20X/0.5,W.D=2.2mm,CG=0.17<br>Plan UC Fluor 40X/0.75,W.D=0.7mm,CG=0.17<br>Plan UC Fluor 100X/1.3 oil,W.D=0.1mm,CG=0.17 |
| Plan APO Series               | Plan APO 4X/0.15 W.D.=20mm,CG=0.17<br>Plan APO 10X/0.35 W.D.=4.2mm,CG=0.17<br>Plan APO 20X/0.75 W.D.=0.55mm,CG=0.17<br>Plan APO 40X/0.95 W.D.=0.18mm,CG=0.17<br>Plan APO 100X/1.3 oil. W.D.=0.25mm,CG=0.17                                                                                                                    | /                                                                                                                                                                                                                                                   |
| HPlan S-APO Series            | HPlan S-APO 4X/0.13,W.D=17.3mm,CG=0.17<br>HPlan S-APO 10X/0.3,W.D=11.7mm,CG=0.17<br>HPlan S-APO 20X/0.5,W.D=2.2mm,CG=0.17<br>HPlan S-APO 40X/0.75,W.D=0.7mm,CG=0.17<br>HPlan S-APO 100X/1.3 oil,W.D=0.1mm,CG=0.17                                                                                                             | /                                                                                                                                                                                                                                                   |
| Plan UC Phase Contract Series | Plan UC PH 10X/0.25, W.D=17.4mm,CG=0.17,ph1<br>Plan UC PH 20X/0.45,W.D=0.8mm,CG=0.17,ph2<br>Plan UC PH 40X/0.65,W.D=0.6mm,CG=0.17,ph2<br>Plan UC PH 100X/1.25 Oil,W.D=0.16mm,CG=0.17,ph3                                                                                                                                      |                                                                                                                                                                                                                                                     |
| Focusing Mechanism            | Stage Z range: 29.5 mm, Coarse and Fine focusing knob<br>Coarse focusing : 17.7mm/turn; fine focusing: 0.1/turn,<br>Upper limit stopper, Torque adjustment ring                                                                                                                                                               |                                                                                                                                                                                                                                                     |
| Condenser                     | Abbe condenser                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                     |
| Stage                         | Rackless stage                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                     |
| Filter Cubes                  | /                                                                                                                                                                                                                                                                                                                             | DAPI/Hoechst/AlexaFluor 350<br>EGFP/FITC/Cy2/AlexaFluor 488<br>TRITC/Cy3/TagRFP/AlexaFluor 546<br>DAPI/Green/Orange #1 FISH<br>(Multiple filter cube options available on request<br>consult with your Motic sales representative)                  |
| Software                      | Motic Images Plus 3.0 (Best paired with Moticam S line cameras)                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                     |
|                               | /                                                                                                                                                                                                                                                                                                                             | Motic Images Plus 3.0<br>FL channel merge plug-in                                                                                                                                                                                                   |

# DIMENSIONS

PA53 BIO



PA53 FS6



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