



Product Range Catalogue

MOTICAMSERIES



For the past 15 years, Motic has been pioneering attachable digital microscopy solutions that continue to revolutionize the way even old microscopes can be reborn.

Starting out with very humble VGA resolution all those years ago, we are now looking at the Moticam 10+ with a whopping 10 MP of live imaging through high speed USB3 connections. Whether it is Wi-Fi, HDMI, USB3 or SD card, there is a way for you to share data that exactly fits your need.

Your Motic Europe Team





THE [Allin One BOX] CONCEPT

Always listening to our end-users, each of the Moticam you will find in this booklet is packed with tools that you - the user - will find not only useful, but perfectly fitted to your needs. This means that the Moticams are probably the only All-in-One Box digital microscopy solution available at that price.

Having the epithet All-in-One Box means that with each Moticam you will get the tools and the software to immediately start turning your microscope into a digital workstation.

As you browse this catalogue, you will find that the flexibility is not only in the possibility to attach the cameras to almost any microscope, but also in being able to deliver a powerful software application suite to almost any platform.

SEE WHAT YOUR MOTICAM BOX INCLUDES

AN ATTACHABLE CAMERA

A FOCUSABLE COATED GLASS LENS

TWO ADJUSTABLE SIZE EYEPIECE ADAPTERS

A 4-DOT CALIBRATION SLIDE

A MACRO VIEWING TUBE

ALL NECESSARY CABLES

A FULL VERSION OF MIP 3.0 APPLICATION SOFTWARE



containing a sensitive professional imaging chip housed inside a C-Mount case including a removable IR cut-off filter



matched to the size of the imaging chip



that allow you to attach the camera onto almost any microscope without having to remove the eyepiece



with micrometer cross-hairs that ensures accurate calibration



that used together with the focusable lens is ideal for using the camera without a microscope



and power supplies



provides all you need to quantify, measure, annotate, teach, learn...and much more

P.06-09 | USB 2.0 & 3.0 CAMERAS

P.10-11 | WI-FI CAMERAS





Radius: 978.86 µm Area: 3010171.75 segur Perimeter: 6150.36 µm Radius: 730,70 µm Area: 1677360.00 squr Perimeter: 4501.11 µm

P.12-13 | FULL HD CAMERAS

P.14-15 | TABLET SOLUTIONS





USB

2.0 & 3.0 CAMERAS

The USB (Universal Serial Bus) connection is probably the most common peripheral connection to a computer. Now at USB3 speed, it makes fast dataflow and high resolution live imaging possible without having to rely on low frame rates or high exposure rates.

Our USB Moticams use standard USB2 and USB3 cables so even in the event that such a cable would get lost or damaged, buying a replacement is a simple and cost effective task.



MOTICAM 1

MOTICAM 2

MOTICAM 3+ MOTICAM 5+

MOTICAM 10+

Moticam

1280x720









Moticam 1

A simple and efficient way to get started with attachable digital microscopy at a good price. At a live image resolution of 1280x720 pixels, the Moticam 1 is enough for making your microscope come alive in a classroom, laboratory or even in your own home. Simple to setup and simple to use, with the included focusable lens and eyepiece adapters, the Moticam 1 is quick to setup and ready to go.

Moticam 2

If you are after more live resolution, the Moticam 2 offers the same features of the Moticam 1 but at a live resolution of 2 MP. This camera is perfect for those who seek more details in their images or those who want to display the live image on a full computer screen.



Moticam 3+

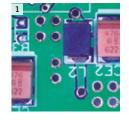
Our most popular camera, the 3 MP live resolution imaging device is the first in our line-up to benefit from high-speed USB3 data transmission. Although it is backward compatible with older USB ports, if your system has a USB3 interface, you will be able to enjoy fast streaming images directly from your microscope. As with other Moticams, the Moticam 3+ comes with adapters and tools to fit onto almost any microscope.

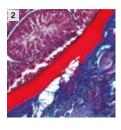
Pictures taken with a Moticam 3+ and...

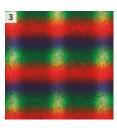




3 BA310MET upright microscope







Moticam 51 Moticam 101

On the higher end of the resolution scale are our Moticam 5+ and 10+ with 5 MP and 10 MP real-time live imaging resolution. For those who want to eke out the smallest of details, these high resolution live cameras will be the best choice. With greater resolution also comes greater printing possibilities.

For users who like to publish their findings and images in higher DPI settings, the 5 MP and 10 MP resolutions allow that possibility within one small package. Equipped with USB3 high speed data transfer, these two cameras provide the best of resolution and frame rates.

WI-FI

CAMERAS

As good as USB or HDMI connections are, sometimes you just need to cut away from the wires and have a live image transmitted to your tablet, your computer or your phone wirelessly. As with all Moticams, proper image representation as well as quantification tools such as measurements and annotations are still kept available no matter what device you are using to view the live images.

Free applications are available for iOS, Android as well as Windows Mobile devices. Both cameras below come with our focusable lens, eyepiece adapters as well as full application software suite.



MOTICAM X
MOTICAM X³



































Moticam

The Moticam X is the first and most cost-effective wireless camera in our range. This camera gets its power from an attached USB cable; you can keep it powered from USB 5V power supply. By creating its own Wi-Fi access point, you can easily share the live image with several users on different platforms.

Moticam

For more demanding users, the Moticam X³ captures images at 4.0MP and it is much faster, transfering live images up to 30 fps. It also allows you to integrate it to your own network either via Wi-Fi or Ethernet cable, allowing more users to be connected. Alternatively, it also works with our standard Motic Images Plus Software for computers.

FULL HD

CAMERAS

High Definition monitors and televisions are common-place in many schools, labs and clinics. Motic has launched three models that feature uncompromised HDMI output directly to those screens.

With built-in image processing tools, simply connect your mouse to the camera and take full control over the image parameters and still or video capture modes.



MOTICAM 1080 MOTICAM 1080 BMH MOTICAM 1080 INT



Moticam 1080

The Moticam 1080 has HDMI and USB outputs as well as a slot for an SD-card. Work with the 1080 without the need for a computer by connecting a wireless mouse and have all controls on screen. As with all other Moticams, you can use the Moticam 1080 with a computer. Simply use the USB connection and connect it straight to your PC for use with the supplied Motic Images Plus application software.

Moticam 1080BMH Moticam 1080INT

The 1080 BMH is a full HD station featuring an attached 11" HDMI screen. All the functions of the 1080 can be found on the 1080 BMH and controlled on its own HDMI screen making this a very efficient package for both stereo and compound microscopes. The 1080 INT has the same features as the 1080 BMH, but is meant to be used as an intermediate module for our well-known BA Series of upright microscopes.

TABLET

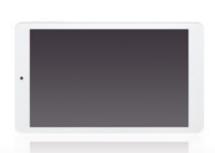
SOLUTIONS

Bringing digital microscopy to the compact screens of tablets is Motic's focus in the foreseeable future. Tablets and other mobile devices are becoming common in schools, hospitals and at the workplace, therefore we have devised a few connection methods to allow a conversion of almost any microscope into a truly mobile digital microscopy platform.

In order to take full advantage of Motic's long history with affordable yet powerful solutions, our versatile software applications are now also ported to iOS, Android and Windows mobile devices therefore allowing you the freedom to choose how you wish to share your microscope.



MOTICAM BTU10
MOTICAM BTW







Moticam BTX8

The Moticam BTX8 combines a space-saving camera hardware with new Wi-Fi technology. The 4MP Wi-Fi camera comes together with an 8" Android tablet to deliver fast live images up to 30 fps. Detaching the tablet for an even more flexible application is possible thanks to the Wi-Fi data transfer.

Moticam BTU10

The Moticam BTU10 is a tablet microscopy solution, consisting of a customized 10" Android tablet connected to a microscopy imaging camera of 5MP. The android tablet is easily detachable and replaceable and is completely separate from the camera, therefore providing maximum flexibility.

Moticam BTW

The BTW system contains a 5MP microscopy camera with a Wi-Fi connection and a cradle which will hold a tablet up to 10", ready to be used with your own tablet. Simply download MotiConnect for either Android or iOS systems and connect to the camera using the wireless signal or to a computer via USB cable.



MOTICONNECT APP

More and more people are using mobile devices in all aspects of their lives, including work. Digital Microscopy should not be an exception to this trend. And for this reason, we have created MotiConnect that works with iOS, Android as well as Windows mobile devices.

MotiConnect allows you to view live camera streams, capture and measure, annotate and share your microscope image by simply touching the icons on your tablet. This application is popular amongst students, professors and professionals alike as it is easy to use and intuitive, even to tablet novices.





















MOTIC IMAGES PLUS 3.0

This new software package is a complete rework of our popular Motic Images Plus 2.0. Having listened to feedback from end-users, we have packed as many useful features and tools as possible into this software suite while still keeping it organized, intuitive and easy to use. Best of all is its price tag. It is given free of charge to any Moticam purchase. That makes the Motic Images Plus 3.0 probably the most versatile and comprehensive free digital microscopy program in the market today.

With tools such as counting, annotations, live measurements and filters, this software package allows everyone to be able to quantify the images their microscope provides. Our dedicated software department is able to convert new ideas into software tools easily and therefore we provide periodic free of charge updates to the software. Have a good idea for new feature? Contact us anytime.









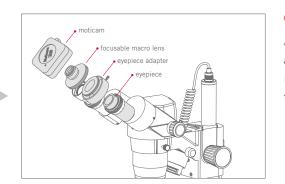


IF YOU HAVE A MONOCULAR OR A BINOCULAR MICROSCOPE



Eyepiece coupler

The first option you have in case you have a monocular or a binocular microscope, is to mount the Moticam onto the eyepiece with the included eyepiece coupler that comes included in your Moticam box.



Onto the eyepiece

Attach the camera to the focusable macro lens and select the correct eyepiece coupler for your microscope. Put the complete combination onto the eyepiece.

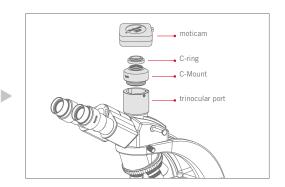
IF YOU HAVE A TRINOCULAR MICROSCOPE



C- Mount adapter

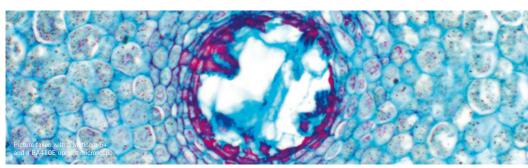
1X, 0.65X, 0.5X or 0.35X.

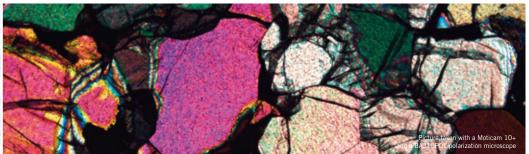
The C-Mount adapter allows you to attach your camera to the trinocular port of your microscope, combining optical and mechanical tasks. The adapter has to be chosen in relation to the chip size of your camera, and it is brand and model specific. It has to be bought to your microscope supplier. Depending on the area of the FOV you wish to capture, you can choose among different magnification factors:



Onto the trinocular tube

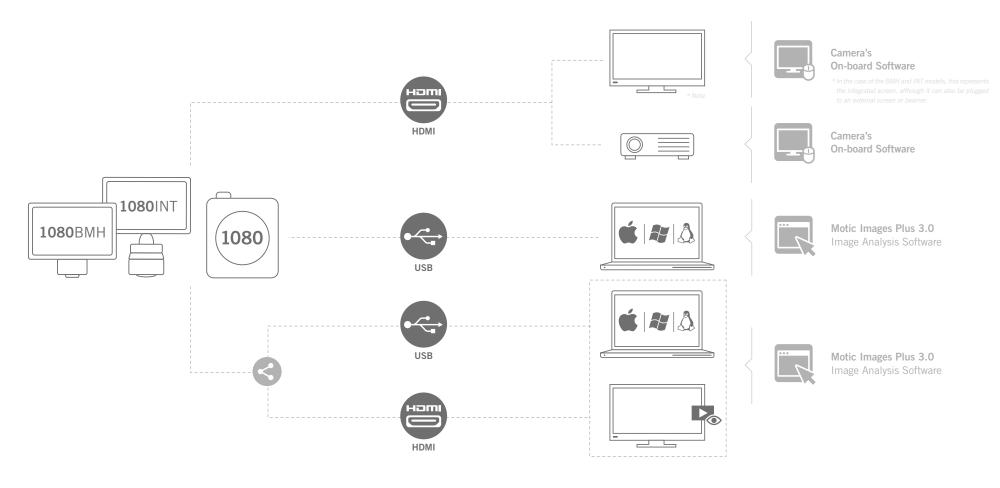
Attach the Moticam to the C-Mount adapter and then fix it to the trinocular port. The C-Mount adapter needs to be chosen according to the chip size of the camera.



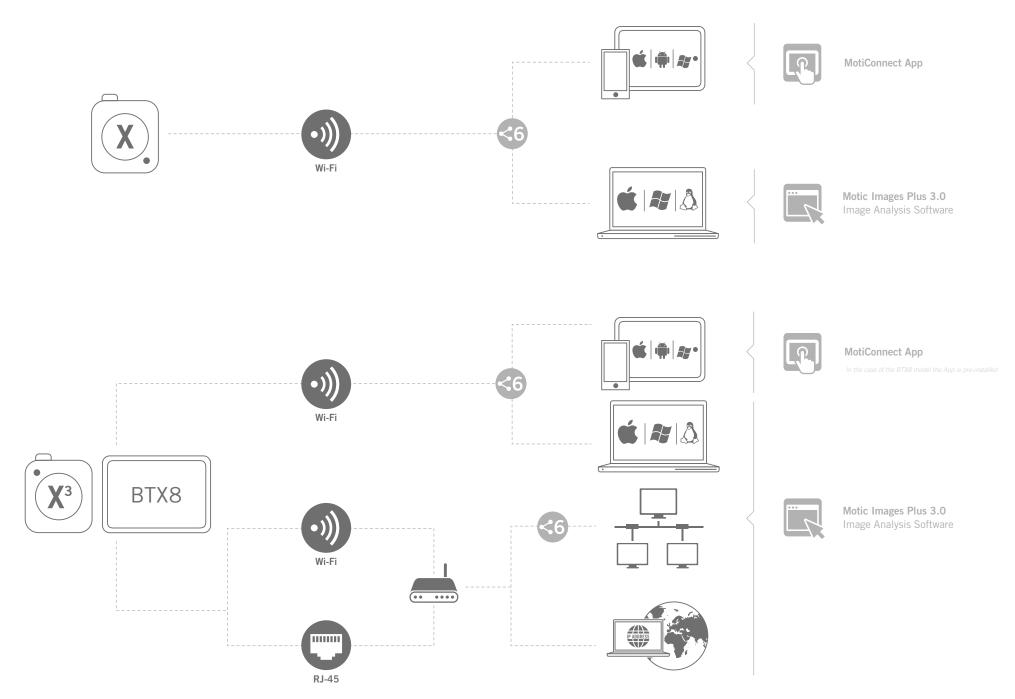


UNDERSTANDING OUR CAMERAS... FIND YOUR WAY

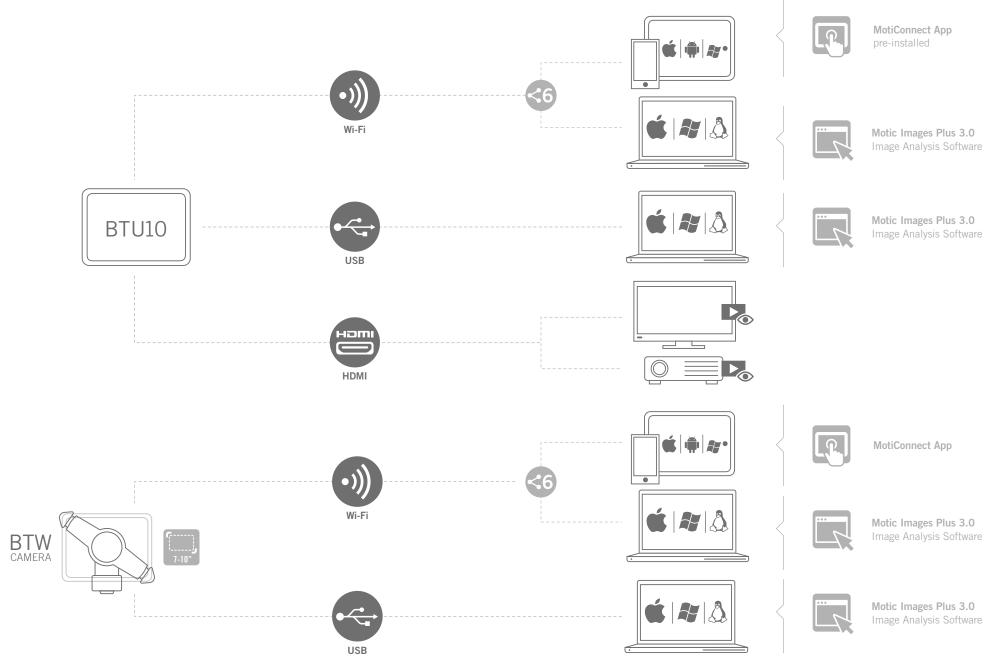




UNDERSTANDING OUR CAMERAS... FIND YOUR WAY



UNDERSTANDING OUR CAMERAS... FIND YOUR WAY



MOTICAM	1	2	3+	5+	10+	X	X3	
Sensor Type	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS	
Sensor Size	1/2.9"	1/3"	1/2"	1/2.5"	1/2.3"	1/3.2"	1/3"	
Capture resolution	1.0 MP	2.0 MP	3.0 MP	5.0 MP	10.0 MP	1.3 MP	4.0 MP	
Live Display Mode (through USB)	1280 x 720	1600 x 1200	2048 x 1536	2592 x 1944	3664 x 2748			
		800 x 600	1024 x 768	1296 x 972	1832 x 1372	-	-	
		400 x 300	512 x 384	648 x 486	916 x 684			
Live display mode (through Wi-Fi)	-	-	-	-	-	1280 x 960 (1.3 MP)	1920 x 1080 or 1280 x 720	
							(Wi-Fi & Ethernet)	
Live Display Mode (through HDMI)	-	-	-	-	-	-	-	
Pixel Size	4.20µm x 4.20µm	3.2µm x 3.2µm	3.2µm x 3.2µm	2.2µm x 2.2µm	1.67µm x 1.67µm	2.8µm x 2.8µm	2.0µm x 2.0µm	
Data Transfer	USB 2.0	USB 2.0	USB 3.0	USB 3.0	USB 3.0	Wi-Fi	Wi-Fi and Ethernet (RJ45)	
Frames per second (fps*)	1280 x 720 @ 30 fps	1600 x 1200 @ 5 fps	2048 x 1536 @ 12 fps	2592 x 1944 @ 14 fps	3664 x 2748 @ 7 fps	Up to 8 fps	1920 x 1080 Up to 30 fps	
		800 x 600 @ 20 fps	1024 x 768 @ 30 fps	1296 x 972 @ 30 fps	1832 x 1372 @ 14 fps	depending on Wi-Fi strength	1280 x 960 Up to 30 fps	
		400 x 300 @ 24 fps	512 x 384 @ 50 fps	648 x 486 @ 50 fps	916 x 684 @ 48 fps		depending on Wi-Fi strength	
Exposure Time	-	0,09 msec to 6 sec	0,11 msec to 7 sec	0,15 msec to 5 sec	0,16 msec to 10 sec	0,05 msec to 0,07 sec	0,03 msec to 0,03 sec	
Slot	-	-	-	-	-	-	-	
Support Device	TWAIN and Direct Show Driver		TWAIN, SDK and D	TWAIN, SDK and Direct Show Driver Universal Webbrowser (HTML5)				
Supported OS	Microsoft Win and MAC O		Microsoft Windows 7/8/10 Android 4,0 or higher/iOS7 or higher/Windows Mobile					
Minimum Computer Requirements	2GHz dualcore - RAM memory 2GB - Video memory min. 512 MB							
Lens Mount			C-Mount					
Focusable Lens	12mm	12mm	16mm	12mm	12mm	12mm	12mm	
Screen	-	-	-	-	-	-	-	
Software			Motic Images Plus 3.0 MotiConnect App (free download)					
Power supply	5V (USB - supply) 5V (External Power supply)							
Package Includes	CS Ring Adaptor, Focusable Lens, 30mm and 38mm Eyepiece Adapters, USB 2.0 (Moticam 1,2,X and X³) or 3.0 Cable (Moticam 3+, 5+ and 10+), Calibration Slide, Macro Tube, Motic Images Plus 3.0 for PC/OSX/Linux							

WHICH MOTICAM FITS YOUR NEEDS? WWW.MOTICAMSERIES.COM

*fps frames per second under optimal illumination conditions

MOTICAM	BTW	BTU10	BTX8	1080 BMH	1080 INT	1080
Sensor Type	CMOS	CMOS	CMOS	CMOS	CMOS	CMOS
Sensor Size	1/2,5"	1/2,5"	1/2,5"	1/2.8"	1/2.8"	1/2.8"
Capture resolution	Through Wi-Fi: 1.3 MP / Through USB: 5.0 MP	5.0MP	4.0MP	Still Image: 8.0MP (3840 x 2160) / Video: Full HD 1920 x 1080		Still Ima
Live Display Mode (through USB	Depending on tablet	1280 x 800 (display resolution)		1920 x 1080 (Full HD)		
Live display mode (through Wi-Fi	1280 x 960 (1.3 MP)	-	1920 x 1080, 1280 x 720 (display resolution)	-	-	-
Live Display Mode (through HDMI	-	(HD)	720F		1920 x 1080 (Full HD)	
Pixel Size		2.2µm x 2.2µm		2.8µm х 2.8µm		
Data Transfe	USB or Wi-Fi	USB	Wi-Fi and Ethernet (RJ45)	HDMI (1080p) and USB 2.0		
Frames per second (fps*		1280 x 1024 @ 10 fps (USB) 1280 x 720 @ 10 fps (USB) 800 x 600 @ 20 fps (USB)	1920 x 1080 Up to 30 fps 1280 x 960 Up to 30 fps depending on Wi-Fi strength		USB: 1920 x 1080 (Full HD) @ 30 fps HDMI: 1920 x 1080 (Full HD) @ 60 fps	
Exposure Time	ec to 6 sec	0,03 msec to 0,03 sec 0,09 msec		0.06ms ~ 40ms with Auto Exposure mode (0.06ms ~ 999ms with Manual Exposure mode)		0.06ms ~ 40ms with A
Slo	-	-	-	SD Card (max 32Gb)		
Support Device	Universal Web browser (HTML5)	-	Universal Web browser (HTML5)		Twain and Direct Show Driver	
Supported OS	Microsoft Windows 7/8/MAC OSX/ Android 4,0 or higher/iOS7 or higher			Microsoft Windows 7/8/10 and MAC OSX & Linux		
Minimum Computer Requirements			GB - Video memory min. 512 MB	2GHz dualcore - RAM memory 2		
Lens Moun		ount	C-M	C-Mount -		C-Mount
Focusable Lens	-	-	-	-	-	12mm
Screen	-	10" IPS Tablet	8" IPS Tablet	Full HD screen with bracket	11.6" Native 1920 x 1080 F	-
Software	MotiConnect App (free download)	p (pre-installed)	MotiConnect Ap	On-board software		
Power supply		5V (External Power supply)		12V (External Power supply)		
Package Includes	USB 2.0 Cable, Motic Images Plus 3.0, calibration slide, Universal Power Supply 100V-240V (CE)	MicroSD 16Gb, HDMI Cable, USB 2.0 Cable, Motic Images Plus 3.0, Motic 4-dot calibration slide, Charger 100V-240V (CE)		CS Ring Adaptor, HDMI cable, Focusable Lens (1080 only), 30mm and 38mm Eyepiece Adapters, USB 2.0 Cable, Calibration Slide, Macro Tube, Motic Images Plus 3.0 for PC/OSX/Linux		
Tablet bracket holder		For tablets from 7" to 10"				
Table	Not included. Users can use their own tablet and connect through Wi-Fi	Included				
Size	-	263 x 173 x 9.5 mm	209 x 126 x 9.9 mm			
System	-	Android 5.1	Android 5.1	A.		
CPL	-	1.9GHz Quad core	1.3GHz Quad core			
RAM / NAND FLASH	-	2GB DDR3 / 16GB	1GB DDR3/8GB			1
Display / Display resolution	-	10.1" (IPS) 16:10 Ratio / 1280 x 800 (IPS)	8" (IPS) 16:10 Ratio / 1280 x 800 (IPS)			
Ports	-	GB), DC 5V Power Input, HDMI output,	MicroSD/MMC/TF Card (Support up 32			



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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.

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Official Distributor:



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