

# **IX≡T** M Family





### **COMPACT DESIGN**

Small footprint that saves space in the cluttered lab environment



### **SMART IMAGING**

Blend the marker image with the chemiluminescent sample image in a seamless workflow



### **SUPERIOR SENSITIVITY**

Reduce the time waiting for your faint signal to appear



### **EASY IMAGE EXPORT**

Export your images in a batch to your USB drive instantly

### WHAT MAKES KETA M/ML THE IDEAL FLUORESCENT / CHEMILUMINESCENT IMAGING SOLUTION?

### **Compact Design with Maximum Flexibility**

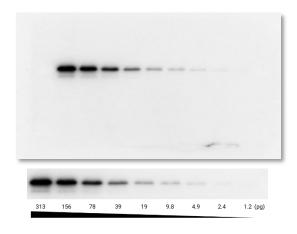
The KETA M/ML saves space and trouble even when you have to share the instrument with others. It consists of an integrated computer, a 12-inch touchscreen display, a tightly sealed darkroom, and a scientific grade camera in a small footprint. The simple sample tray placement minimizes the lens adjustment process. Needless to say, the highly sensitive camera can even capture the sample blot in a container without sacrificing the performance thanks to the tightly sealed darkroom and the excellent calibration process.

### **Smart Intuitive Software Design**

The KETA M/ML comes with the brand-new Magic Plus software which has been designed for ease of use based on the customer feedbacks. From capturing the images to exporting the images to your laptop, the Magic Plus simplifies the complicate processes under just a few clicks. In the image acquisition process, the software automatically blends the marker Image with the chemiluminescent sample image and generates a combined image for users to export. As soon as users have acquired their images, they can easily export them, whether in a batch or a single combined image with the marker image overlay, to their USB drives instantly.

### Applicable to chemiluminescent and fluorescent imaging

The M/ML consists of high dynamic range Peltier cooled 9.1 Megapixel camera, auto focus f0.95 lens, six position filter wheel for western blot application with both Chemiluminescent and fluorescent image capture. It is the state of art in the market, bring operator the most convenient and cost effective system in protein detection field.



Two-fold dilution series of purified human transferrin from 625 pg to 2.4 pg

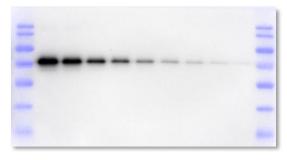


Image blending with the marker image with Auto Coloring

### **Picogram Dynamic Range Sensitivity**

The KETA M/ML is capable of detecting picogram level of protein content within seconds. Often times users have to wait for the faint signal to appear and sacrifice the resolution with the binning function. The KETA M/ML eliminates the waiting time and complicated binning options thanks to the highly sensitive scientific grade camera. The large size camera chip integrated with the Peltier cooling technology guarantees users to capture images with wide dynamic range and low noise. The system detects <2.4 picogram of purified human transferrin within 30 seconds. With these results shown here, you can capture your western blot images with confidence and trust.

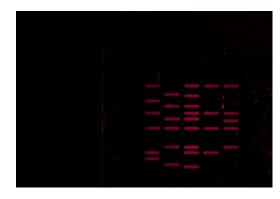
### **User-friendly software interface**

The M/ML is equipped with most advanced user-friendly human machine interface for either routine or personal laboratory use, operator management function directly records and controls every test or experiment for core facility. The M/ML supports data and result transfer via memory stick or Wi-Fi to target host or personal computer. Magic Plus software package as standard with KETA M series.

### **Powerful Image enhancement functions**

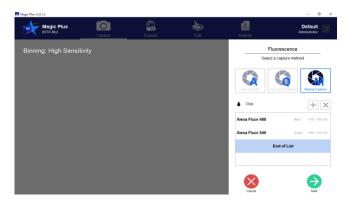
The preset methods in M/ML bring operators quick method selection to get optimal result any time, professional mode enable operator to create their own method by adjusting the parameter and recall for next experiments. Image Edit functions such as image rotation 0-15°, export files to various file formats, brightness, contrast adjustment, and etc. allow user to enhance their image quality. The professional repot export is one of the important features.

Fluorescence image Alexa Fluor 488



Fluorescent image Alex Fluor 680

### **Magic Plus software**



Select light source for specific dye



**Compare images** 

### MC 300 supports versatile fluorescent western blotting

MC 300 Epi light set includes eight pieces of Hi- power LED covering Wavelength from 400nm to NIR (780nm) for all fluorescent dye excitation on western blot application. Operator choose either the dye or the excitation wavelength, the M/ML will automatically turn on the LED and drive the Emission filter to correct position by preset program without additional steps.

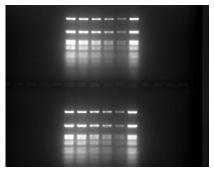


Blue light for Alexa Fluor 488 dye

# Trans-green light sample tray

Trans-green light sample tray enables safe dye gel imaging.

Optional Trans-blue or Trans-white light sample tray are also available.



SYBR Green Stained Gel Image by Transgreen light sample tray

# Filter Selection Guide

Filter type	Em (nm)	Commercial fluorescence dye
WK301	540-630	Coomassie Blue, EtBr, SYBR Green, SYBR Gold, SYPRO Ruby, SYPRO Orange
WK 302	515-531	Alexa Fluor 488, Alexa Fluor Plus 488
WK 303	564-618	Alexa Fluor 546, Alexa Fluor Plus 555
WK 304	675-719	Alexa Fluor 647, Alexa Fluor Plus 647
WK 305	706-727	Alexa Fluor 680, Alexa Fluor Plus 680

### **Specification**

Model	KETA M	KETA ML	
Camera depth	16bit		
Dynamic Range	>4.0		
Operation temperature	0-60° C		
Chip size	1"		
Resolution	9.1M pixels		
Communication	Wi-Fi, Ethernet, USB		
Binning	2X2, 4X4, 8X8		
Pixel Size	2.4um x 2.4um		
Cooling	Peltier, 40°C below ambient		
Lens	Auto focus f0.95 / 25mm		
Filter Wheel	Six positions (43mm)		
Internal light source	MC 300 (White light only)	MC 300/400nm to NIR	
Filter	WK 301	WK301-WK305	
Black / White Sample Tray	For Chemiluminescent / Fluorescent blot imaging		
Trans Green light Sample Tray	For Transparent Gel imaging		
Magic Plus software	Magic plus Basic / Magic plus Standard		
OS system	MS Windows 10		
Physical dimensions and Weight	400 x 330 x 580mm (WxDxH) ; 20 kg		
Power	100 – 240V, 50 – 60Hz		
Optional			
External Touch Screen	20" LCD Screen with touch panel		
Thermal printer	Digita	Digital	

<sup>\*</sup>Upgrade package for KETA M to KETA ML includes Epi-light with software package, filter set (WK302-Wk305).

<sup>\*\*</sup>The spec is subject to change without prior notice.

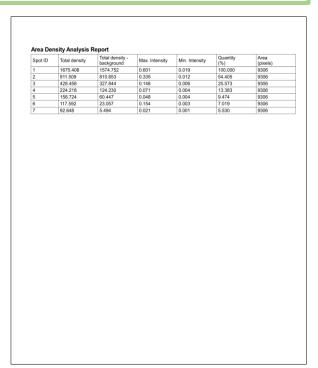
### **Professional Reporting**

**Institute:** Wealtec Bioscience co., Itd. **Laboratory:** Research and Development

Creator:

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## **Ordering Information**

Catalog Number	Description		
1150051	KETA M, chemiluminescent & fluorescent imaging system complete include in-build SBC, 12" touch screen, 9.1M pixels cooled camera, f0.95 Autofocus lens and a WK301 filter, 6-position filter wheel, B/W sample tray, trans green light sample tray, MC 300 White light only, Magic Plus Basic software, Wi-Fi and a set of keyboard and mouse. 100-240V, 50-60Hz.		
1150052	KETA ML, chemiluminescent & fluorescent imaging system complete include in-build SBC, 12" touch screen, 9.1M pixels cooled camera, f0.95 Autofocus lens and WK301-WK305 filters, 6-position filter wheel, B/W sample tray, trans green light sample tray, MC 300 light source, Magic Plus software, Wi-Fi and a set of keyboard and mouse. 100-240V, 50-60Hz.		
1153030	Magic Plus Software for KETA M/ML, One user key		
1153031	Magic Plus Software for KETA M/ML, Three user keys		
1151221	WK 301 emission filter 540- 630 nm		
1151222	WK 302 emission filter 515-531nm		
1151223	WK 303 emission filter 564-618 nm		
1151224	WK 304 emission filter 675-719 nm		
1151225	WK 305 emission filter 706-727 nm		
1155032	External 20" LCD with touch panel		
1153040	Upgrade package KETA M to ML includes Epi light, software package, and filter set.		
Accessories			
1146003	Digital thermal printer		
1147007	Thermal paper 5 rolls/pack		

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