

Multi-Purpose Imaging System



KETA M series is the multi-purpose imaging system dedicated to chemiluminescence and fluorescence detection, in addition to gel documentation. 1.4 megapixels resolution with large chip size CCD element coupled with high efficiency Peltier cooling unit to reduce noise achieving the ultimate performance for fluorescence and chemiluminescence signal detection. LED White light /R/G/B or White light /UV/G/B as epi illumination source, optional motorized sample stage, external Xenon illumination source, and wide range emission filters are all available for specific applications. Wide range emission filters can be selected for different dyes. Built-in blue / white light transilluminator power source ideally for optional Bio-Safe applications. Magic 1D and Magic Chemi software are incorporated as standard package for advanced image capture and process.

Emission filter selection guide

Filter	Dye/stain
WK 101	EtBr, SYBR Green I/II, SYBR Gold, SYPR Red/Ruby/Orange
WK 102	SYBR Green I/II, SYBR Gold, SYBR Safe, wtGFP
WK 103	EtBr, SYBR Green I/II, SYBR Gold, SYPRO Red/Ruby/Orange, Fluorescein/FITC
WK 104	SYPRO Ruby, EtBr
WK 105	SYPRO Red, Radiant Red, Texas Red

For other filters, please contact local distributor or support@wealtec.com.

Features

- KETA M for general multi-image detect
- KETA ML with 2-stage Peltier cooling technology for highly sensitive detection
- Upgradeable high intensity Xenon epi illumination source

Applications

- Drug discovery, Biotechnology company
- Education, university, academic and research institute
- Analytical chemistry, molecular laboratory
- Enzyme reaction, immunology
- Proteomics, genomics core facility
- Food industrial and inspection laboratory

Specifications

	KETA M	KETA ML
Camera	K16C	K16C II
CCD depth	16 bit	16 bit
Operating temperature	Ambient -30 °C	Ambient -45 °C
Chip size	2/3"	2/3"
Resolution	1360 x 1024	1360 x 1024
S/N ratio	>72dB	>80dB
Pixel size (um)	6.45 x 6.45	6.45 x 6.45
Cooling	Peltier	2- stage Peltier
5 position filter wheel (mm)	55	55
Lens adjustment	Motorized	Motorized
MC 100 LED (W/R/G/B)	Standard	Standard
UV-Transilluminator	MD-25K	MD-25K
Sample stage	Standard	Standard
AS 100 motorized stage	Option	Option
Magic 1D / Magic Chemi software	Standard	Standard
OS system	Windows XP, Vista, 7, 8	Windows XP, Vista, 7, 8
Filter	WK101 & WK 102	WK101 & WK 102
Physical dimensions (mm)	460x450x725 (WxDxH)	460x450x725 (WxDxH)
Weight (kg)	47.2	47.2
Power	100/120/230V, 50-60Hz	
Optional		
Thermal printer	Digital	
(W/G/B/UV) Illumination	MC 100-1 LED	

The specification is subject to change without prior notice.

Ordering Information

Catalog No.	Description
1150031	KETA M, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 120V, 60Hz
1150032	KETA M, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 230V, 50Hz
1150033	KETA M, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 100V, 50/60Hz
1150041	KETA ML, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 120V, 60Hz
1150042	KETA ML, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 230V, 50Hz
1150043	KETA ML, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 100V, 50/60Hz
1153001	Magic 1D gel analysis software for single user key only
1153002	Magic 1D gel analysis software for three user keys
1153005	Magic Chemi software package, single user key only
1153006	Magic Chemi software package, three user keys
1153011	Prodigy SameSpots 2D Software package (manual alignment)
1153012	Progenesis SameSpots 2D Software package (auto alignment)
1153013	Fingerprinting, RFLP, VNTR dendrograms package
1146001	UV/White light converter plate
1146021	BW-20 B&W light transilluminator, 20 x 20 cm with power adaptor and orange cover, 100-240V, 50/60Hz
1151210	High transparent orange filter 55mm
1146003	Digital thermal printer
1155002	AS 100 motorized sample stage (factory install)
1155006	MC 100-1 Multi Color W/G/B/UV (365nm) instead of MC100 W/R/G/B as Epi source (factory install)



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