

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 and 4.0 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.

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 Greeoptionn 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 Peliter cooling technology for highly sensitive detection
- KETA MLX with 4.0 megapixels for high resolution detect
- 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 | KETA MLX |
|---------------------------------|-----------------------|-----------------------|-----------------------|
| Camera | K12CH | K12CHS | K16CH |
| CCD depth | 12/16. A/D bit | 12/16. A/D bit | 16 bit |
| Operating temperature | Ambient -30 °C | Ambient -45 °C | Ambient -40 °C |
| Chip size | 2/3" | 2/3" | 2/3" |
| Resolution | 1360 x 1024 | 1360 x 1024 | 2048 x 2048 |
| S/N ratio | >62dB | >67dB | >69dB |
| Pixel size (um) | 6.45 x 6.45 | 6.45 x 6.45 | 7.4 x 7.4 |
| Cooling | Peltier | 2- stage Peltier | Peltier |
| 5 position filter wheel | FW 55 | FW 55 | FW 55 |
| Lens adjustment | Motorized | Motorized | Motorized |
| MC 100 LED (W/R/G/B) | Standard | Standard | Standard |
| UV-Transilluminator | MD-25K | MD-25K | MD-25K |
| Sample stage | Standard | Standard | Option |
| AS 100 motorized stage | Option | Option | Standard |
| Magic 1D / Magic Chemi software | Standard | Standard | Standard |
| OS system | Windows XP, Vista, 7 | Windows XP, Vista, 7 | Windows XP, Vista, 7 |
| Filter | Wk101 & WK 102 | Wk101 & WK 102 | Wk101 & WK 102 |
| Physical dimensions (mm) | 460x450x725 (WxDxH) | 460x450x725 (WxDxH) | 460x450x725 (WxDxH) |
| Weight (kg) | 47.2 | 47.2 | 47.2 |
| Power | 100/120/230V, 50-60Hz | 100/120/230V, 50-60Hz | 100/120/230V, 50-60Hz |
| Optional | | | |
| Thermal printer | Digital | Digital | Digital |
| (W/G/B/UV) Illumination | MC 100-1 LED | MC 100-1 LED | MC 100-1 LED |

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 |
| 1150051 | KETA MLX, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 120V, 60Hz |
| 1150052 | KETA MLX, for chemi / fluor and gel doc includes Magic 1D & Magic Chemi software, 230V, 50Hz |
| 1150053 | KETA MLX, 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 |
| 1146011 | UV/Blue light converter plate |
| 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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