Making it easier to capture and share high resolution true-to-life images

Stand Alone Design
Stand alone design allows independent operation for greater productivity and ease of use, while still allowing connection to PCs via a LAN network and external monitors.

High-resolution 5-megapixel Images
Equipped with a 5-mega pixel color matrix CCD. Captures high-definition images at 2560 x 1920 effective pixels. Built-in image processing capabilities such as shading correction and tone settings are specifically engineered for photomicrography applications. Since DS-5M-L1 automatically calculates the optimum shading correction value to best suit your microscope, you can easily recall and apply the value with click operation.

Pre-programmed Optimum Imaging Modes
Exclusive scene function utilizes a pre-programmed mode to provide optimum photography for each observation method. No need to go through troublesome camera setting procedures for every photo session. Just select the observation method by clicking the scene button with the mouse.

Large 6.3-inch LCD Monitor
Even without an external monitor, the large-screen, 6.3-inch LCD monitor built into the minimum-footprint camera control unit offers excellent resolution for fast and accurate focusing as well as observation.

Scene function for one-click optimum photography
Based on Nikon’s experience with the manufacture of microscopes, optimal pre-programmed imaging modes are provided in the Menu, so the appropriate condition can be selected according to the observation method (brightfield, fluorescence and DIC(phase contrast). The best image can be captured with a simple click. The user’s own settings can also be registered in 7 modes as custom settings.

Count marking function
Up to 99 serial numbers can be marked to provide a convenient way to confirm the number of notes on-screen, and can also be easily saved and printed.

Distance measurement between two points
Easily measures the distance between any two points that the user specifies (not available during digital zoom).

2-screen split display
A frozen image can be displayed alongside the live image to compare the two.

Wide variety of other tools
- Text and pen input: The user can input any character on the screen by mouse or via a USB-connected keyboard. Also, lines and figures can be drawn in freehand using the pen tool.
- Thumbnail display: Images stored on CompactFlash™ card can be displayed together on the screen. Filenames and photographic information can also be displayed.
- Superimpose function: Saved images can be superimposed over the live image, for easy comparison.
- Cross line display
- Scale display

Digital Sight DS-5M-L1
### Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td><strong>CCD</strong></td>
<td>2/3-in. high density CCD; total number of pixels: 5.24 million (effective 5.07 million)</td>
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<tr>
<td><strong>Sensitivity</strong></td>
<td>2400 lx, F5.6 or greater; equivalent to ISO 200</td>
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<tr>
<td><strong>A/D conversion</strong></td>
<td>12-bit</td>
</tr>
<tr>
<td><strong>Lens mount</strong></td>
<td>C-mount</td>
</tr>
<tr>
<td><strong>Exposure control</strong></td>
<td>Program AE, Shutter-priority AE, Focus AE, manual, with AE lock function</td>
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<tr>
<td><strong>Exposure time</strong></td>
<td>1/1000 to 60 sec.</td>
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<tr>
<td><strong>Digital zoom</strong></td>
<td>Up to 16X (8 steps)</td>
</tr>
<tr>
<td><strong>Interval shooting</strong></td>
<td>10 sec. - 6 hr. intervals</td>
</tr>
<tr>
<td><strong>Exposure metering</strong></td>
<td>Average metering, Peak hold metering</td>
</tr>
<tr>
<td><strong>Exposure metering range</strong></td>
<td>3 selectable sizes</td>
</tr>
<tr>
<td><strong>Color effects</strong></td>
<td>Color/monochrome, Color enhancement, Hue rotation, Black level adjustment</td>
</tr>
<tr>
<td><strong>Image rotation</strong></td>
<td>Vertical and horizontal rotation</td>
</tr>
<tr>
<td><strong>LCD monitor</strong></td>
<td>6.3-in. TFT color LCD; XGA (1024x768, 60Hz)</td>
</tr>
<tr>
<td><strong>External monitor output</strong></td>
<td>Analog RGB: SXGA (1280x1024, 60Hz), XGA (1024x768, 60Hz)</td>
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### Dimensions (mm)

<table>
<thead>
<tr>
<th>Component</th>
<th>Dimensions</th>
</tr>
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<tbody>
<tr>
<td><strong>Camera Control Unit DS-L1</strong></td>
<td>203 x 77 x 204</td>
</tr>
<tr>
<td><strong>Camera Head DS-5M</strong></td>
<td>90.6 x 75.3 x 41</td>
</tr>
</tbody>
</table>

### Live display mode
- 5M interface mode (3.75 frames/sec. max.)
- 1.3M progressive mode (7.5 frames/sec. max.)
- 1.3M interface mode (6.8 frames/sec. max.)
- Center scan mode (15 frames/sec. displays (2 in center of Y direction)

### Image size
- 2560x1920 pixels, 1280x960 pixels, 640x480 pixels

### Storage format
- BMP, JPEG (4-step compression)

### Interface
- USB1.1 host port (USB mouse, USB keyboard connection), USB1.1/2.0 device port (Mass Storage Class support)

### Power supply
- AC 100-240V, 200VA

### Weight
- Camera head: approx. 231g, CCU: approx. 1300g, AC adapter: approx. 350g

### Operating environment
- 0-40°C, 85%RH max. (without condensation)

### System composition
- Camera head DS-5M, CCU DS-L1, Camera cable (3m), AC adapter, power cord

### Optional accessories
- Exclusive remote control unit, 0.7x Relay lens (C-mount)

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**WARNING**

TO ENSURE CORRECT USAGE, READ THE CORRESPONDING MANUALS CAREFULLY BEFORE USING YOUR EQUIPMENT.