The DG-3x is the extremely portable digital microscope, the ideal choice for accurate and timely maintenance.

**Efficient Lithium-ion Battery Power**
- Outdoors
- In plants and production lines
- On business trips

**Portable**

**Observation of Static Structures**
- Steel structures and dies
- Engines
- Plant equipment

**Can be taken into the field for**

**Non-destructive Testing to Eliminate Disassembly and Removal**
- Paint defects
- Galleys, printing materials or mesh
- Mounting of ICs
Grid Editor

Extended Grid Displays
The DG-3x now has seven new grids that help you to grasp the size of the object much easier.

Flexible Editing Functions
Grid Editor, a Windows application (for Windows 2000, XP and Vista) allows the user to freely select extended scale patterns, display sequence, scale display color and other features on a computer. All of the DG-3x grids are fully calibratable.

A brighter 3.5 inch LCD monitor

30% Brighter LCD
The brightness of the TFT LCD is 30% greater than that of the previous model and the viewing angle has been increased.
A versatile yet easy-to-use, next-generation, digital microscope

2.3MP High Resolution
The 2.3MP high-resolution CCD increases the accuracy of analysis gathered from observations in the field for research and development applications. With its brilliant monitor, the image quality is truly state of the art.

Light and Easy to Carry
The DS-3x is light and compact. At a mere 490g, it is the lightest self-contained portable microscope in the world. Its lithium-ion battery allows for 1.5 hours continuous use. An AC adapter comes standard for extended in-house use.

Touch and View
Recording is as easy as bringing the lens into contact with the subject. Subjects that defy transportation, disassembly, removal or processing can thus be digitally captured for subsequent analysis.

CF Card for Data Recording
A CF card stores recorded JPEG images for subsequent transfer to computers, printers and other external devices. Enhance your results with storing images when text alone will not suffice.

Group Presentations
Connect the DS-3x to an external monitor to be able to show your images to groups of people. Saving valuable time. Record your findings by connecting it directly to a TV/VCR recorder.

Scale and Magnification Displays
make it easier to gauge actual size for reliable image management

The monitor displays scale and magnification. These values may be recorded on the image to preserve your findings.

2X Zoom and Focus Bar for Easy Focusing
The DS-3x has two functions which will help anyone produce perfectly focused images. It has a 2x button that will help you to check for clarity of the image prior to capturing it as well as a digital focus bar that indicates the sharpness of the image.
A Full Line of Optional Accessories

A wide variety of lenses with different magnification and illumination features make it possible to build an observation system that is perfectly tailored to specific imaging needs. The microscope is C-mount compatible in order to accept a broad range of C-mount lenses, endoscopes and microscopes. We also provide a variety of stands to help ensure you get just the right image.

**DG-3x System Overview**

- **External monitor**
- **Computer**
- **CF memory card**

C-mount adapter allows use of third-party lenses

- **Attachment**
- **Microscope**
- **Industrial fiberscope**
- **Industrial borescope**

- **Siedewit mirror tube**
- **Bare lens**
- **Coaxial illumination lens holder**

* Only standard objective lens is not included with this holder.

- **4x-40x Micro/Macro lens**
- **100x high-resolution lens**
- **30x standard lens**
- **50x standard lens**
- **1000x high-resolution lens**
- **200x standard lens**

* Reflective / Non-Reflective lens also available.
**Stand and Stand Adapter lineup**

- **FR-ST1 XY stand**
- **Flexible stand**
- **Vertically adjustable stand**
- **Flexible stand (with magnetic base)**

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**DG-3x**

**Basic Set**
- DG-3x main unit
- Grid Editor software (CD-ROM) and user's guide
- 256 MB CF memory card
- C-mount adapter
- Video output cable
- AC adapter
- Rechargeable lithium-ion battery
- Battery charger and AC cord
- Neck strap
- User's Guide
- Carrying case

*Optional accessories:
- Lens unit with built-in light source
- Stands and stand adapters
- Remote shutter

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**DG-3x specifications**

- **Image capture element**: 1/1.75 inch interline scanning CCD (Aspect ratio 3:2, RGB original color filter square pixel)
- **Pixels**: Total pixels approx. 3.3M (1951 (H) x 1212 (V))
  Effective pixels approx. 2.1M (1816 (H) x 1208 (V))
- **Mount**: Scalar DG mount (C-mount compatible with C-mount adapter attached)
- **Shutter speed**: 1/45 - 1 sec
- **Storage medium**: CF memory card
  - NORM mode: 1,792 x 1,184 pixels, approx. 500 kb
  - FINE mode: 1,792 x 1,184 pixels, approx. 900 kb
  - ZOOM mode: 896 x 596 pixels, approx. 500 kb
- **CF memory card**: Number of recordable images (Number of images will depend on type of image captured)
  - NORM mode: approx. 638 images with 256 MB card
  - FINE mode: approx. 283 images with 256 MB card
  - ZOOM mode: approx. 638 images with 256 MB card
- **Monitor**: 3.5 inch 230,000 pixel TFT LCD (960 x 240 dots)
- **Video output**: NTSC
- **VIDEO OUT terminal**: 3.5 mm monoaural minijack (HD monitor side)
- **REMOTE terminal**: 2.5 mm stereo minijack (destined as external flash synchro)
- **DC IN terminal**: EIAJ standard type-2 DC jack (center plus)
- **Light switch**: Light A, Light B interchangeable (for lenses with built-in flash sources)
- **Output voltage**: 5 V, maximum output current 250 mA
- **Input voltage**: 6.0 V DC ±5%, 1 A; battery operation: 6.0-7.5 V DC ±5%
- **Power consumption**: Approx. 6 W (microscope only)
- **Battery running time**: Consecutive monitor use: 1 to 1.5 hrs. (depends on user settings)
  Consecutive recording: 1 hr (depends on user settings)
- **LED for power check**: Power on: green LED on
  Low battery: red LED on
  Power off: both LEDs off
- **Mass**: Approx. 370 g (microscope only)
  Approx. 490 g (with batteries and CF card)
- **External dimensions**: 98 x 201.5 x 68 mm
- **Installation screw**: Camera screw
- **Operating environment**: 0 to 40°C
- **Storage environment**: -10 to 55°C
- **Operating and storage humidity**: 30-85% (no condensation)