

Camera specifications

[Main specifications]

| | |
|-----------------------|---|
| Effective pixels | : 2.13 mega pixels 1945 (H) x 1097 (V) pixels CMOS colour image sensor IMX291(Sony) 1/2.8 inch 6.46mm diagonal |
| Transfer method | : Progressive |
| Shutter system | : Rolling shutter |
| Output image format | : MJPEG |
| Data transfer system | : USB 2.0 (Hi Speed) |
| Maximum frame rate | : VGA 640 x 480 Pixels : 30 fps HD 1280 x 720 Pixels : 30 fps FHD 1920 x 1080 Pixels : 30 fps |
| Sensitivity (F5.6) | : 1300 mV CMOS sensor characteristics typical value |
| Driver | : Not needed. USB Video Class (UVC) compatible Windows10 |
| Interface | : USB Mini-B |
| Main IPS functions | : Adjustment: exposure (auto & manual), colour temperature (auto & manual), gain, saturation, sharpness, and gamma correction |
| Power supply | : Power supply voltage 5.0 V (USB bus power) Maximum power consumption approximately 200mA |
| Camera properties | : Brightness, contrast, hue, vividness, definition, gamma, gain, white balance, backlight correction |
| Dimensions and weight | : 20 mm x 20 mm x 23 mm (excluding protrusions), approximately 12 g |

Capture Software

The special software to display and save the camera images is provided on a CD ROM.
(For software details, refer to the user's manual provided separately.)

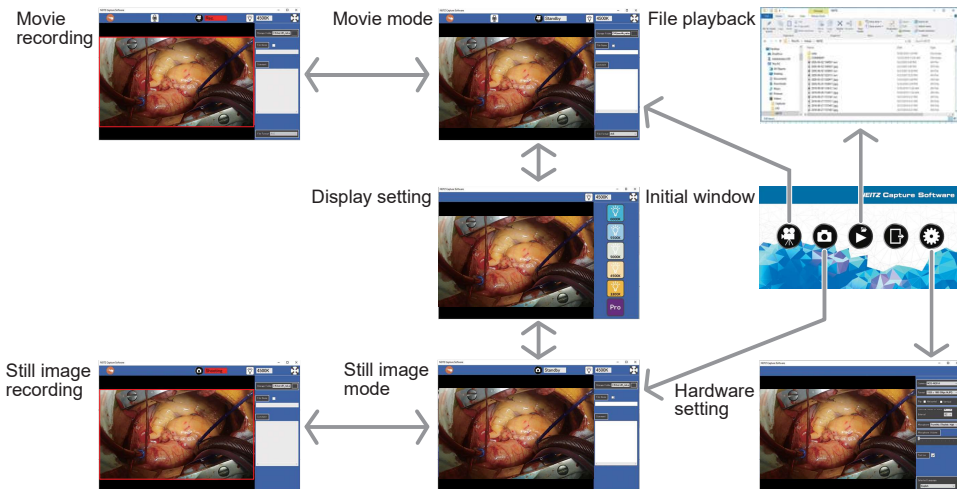
Basic performance

| | |
|--------------------|---|
| Cameras | : Compatible with USB cameras provided by Neitz. |
| File format | : Movie MP4 / AVI / (sound recordable) Still image JPG |
| Resolution setting | : Selectable from VGA, HD, or FHD |
| Display languages | : English and simplified Chinese |
| Reverse image | : Horizontal and vertical flip |
| Colour temperature | : Selectable from 6000/5500/5000/4500/3300 K (in the simple setting window) |
| Flicker setting | : 50/60Hz OFF |

System requirements and operating system

| | |
|-----------------|---|
| Windows 10 | Memory : 8 GB or more |
| CPU | : Core i7 |
| Clock frequency | : 2.5 GHz or more |
| Monitor | : Full HD 1920 x 1080 or more recommended |

Special Capture Software for SC-1 (NEITZ Capture Software)



NEITZ
Made by Neitz for Your Medical Field

NEW MODEL

Surgical Camera System

Full HD 1080 High Resolution Camera SC-1 Series



High
Sensitivity
Full HD
1080



NEITZ
Made by Neitz for Your Medical Field

Neitz Instruments Co., Ltd.

4F Ichibancho Court, 15-21 Ichibancho, Chiyoda-ku,
Tokyo 102-0082, Japan
Phone: +81-3-3237-0552 Fax: +81-3-3237-0554
<https://www.neitz.co.jp/en/>

The surgical camera that proposes a solution to your problem.

Recording and editing images of surgical operation in high quality.

Avoiding image distortion caused by an electric scalpel.

Live-streaming images of surgical operation in high quality.
 * Live streaming by sharing the screen using a common web conferencing system is possible.

Avoiding image degradation caused by light source flickering.



Features of Neitz Surgical Camera

- High quality images**
 The Neitz surgical camera system has high sensitivity and full high definition. The specially designed software allows to play the recorded image easily. The image can be used to prepare materials for in-house conferences and academic meetings.
- Natural colours and textures**
 Provides clear and high-definition images while reducing image degradation. The system can track and record the details of the surgical field with precision, which allows the user to use at ease in a medical setting where high level of reproducibility is required.
- Use in combination with a shadowless lamp and Neitz LED lights**
 The system can be matched with the colour temperatures of the illumination with one touch action. High quality image recording by enhancing the colour reproducibility.

Recording area (with each lens unit)

f16 lens is included with standard accessories.

| Lens unit | f8 lens | f12 lens | f16 lens | f25 lens |
|-----------------------------------|---|---|---|--|
| |  |  |  |  |
| Shooting distance* | | | | |
| 250 mm | 90 x 160 mm | 55 x 100 mm | 40 x 70 mm | 25 x 45 mm |
| 350 mm | 125 x 220 mm | 70 x 125 mm | 60 x 105 mm | 40 x 70 mm |
| 400 mm | 145 x 260 mm | 90 x 160 mm | 70 x 125 mm | 45 x 75 mm |
| 550 mm | 205 x 365 mm | 130 x 230 mm | 100 x 180 mm | 60 x 105 mm |
| Recommended loupe (Magnification) | BLS-1 (1.5x~2.0x) | BLD-3 (2.5x~3.0x) | BLS-2 (2.0x~2.5x) BLS-3 (2.5x~3.0x) BLP-4 (4.0x~4.5x) | BLP-6 (5.5x~6.0x) |

*From front of SC-1

Full HD (1920 x 1080) High Resolution Camera SC-1



LED Illuminator NSI-X



LED Illuminator NSI-III



Neitz Original NEO Frames

