

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.)

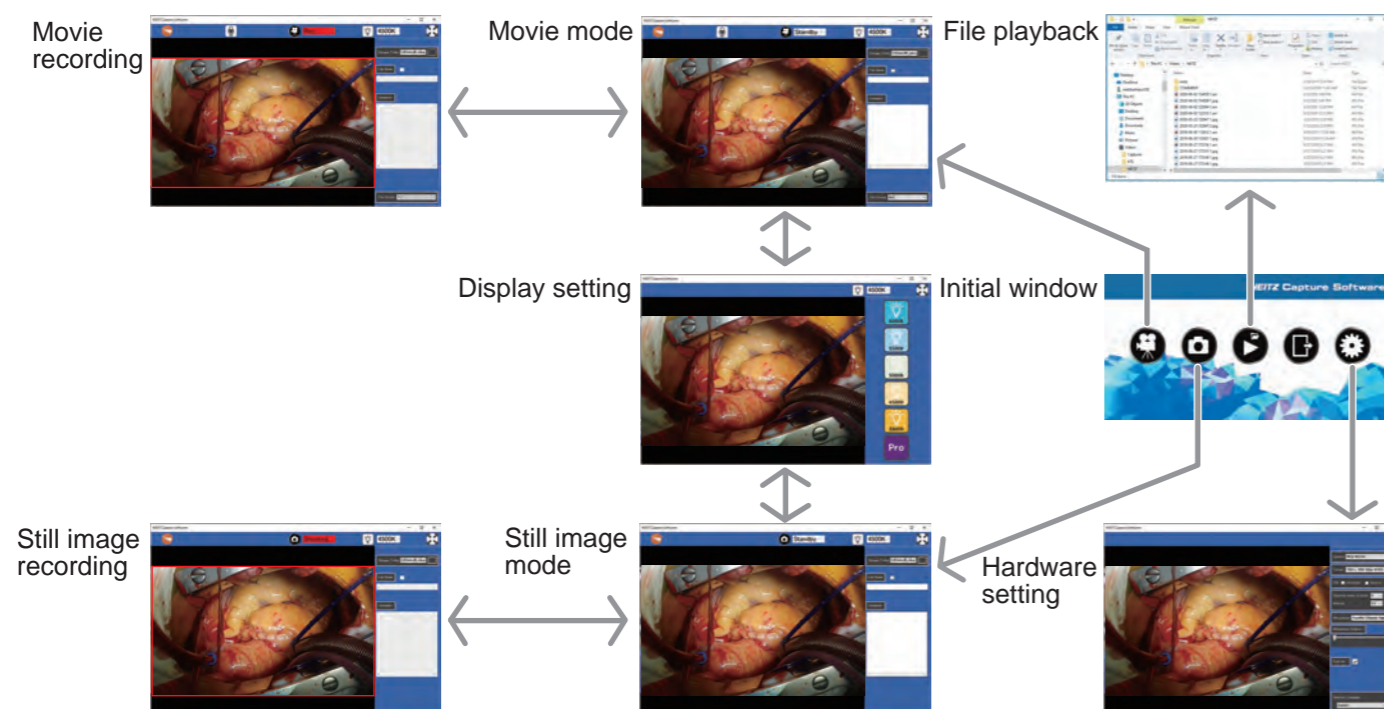
Basic performance

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

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

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The surgical camera that proposes a solution to your problem.

Recording and editing images of surgical operation in high quality.

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 distortion caused by an electric scalpel.

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.



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

Interchangeable lenses

8mm IR	12mm IR	16mm F1.8	25mm IR
8mm	12mm	16mm	25mm

LED Illuminator NSI-X



Neitz Original NEO Frames



Recording area (with each lens unit)

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

f16 lens is included with standard accessories.