

KOWA SL-19 plus

KOWA SL-19 App



 Instruction Manual

 Settings

The KOWA SL-19 App is an application software used for the capture, display and recording of images using the camera version of the KOWA SL-19 hand-held slit lamp (SL-19 plus). Please purchase the SL-19 plus prior to using this application.

For information on how to use the SL-19 plus and associated precautions, kindly refer to the SL-19 plus instruction manual.

This documentation describes the settings for this application. Please note that these instructions are written under the assumption that you are familiar with the iPad mobile device on which the application is installed.

For details on how to use this application, kindly ensure refer to "Basic Operation" and "Other Operation" user guides.

After installing the application, kindly refer to the "KOWA SL-19 plus Instruction Manual" included with the device for the initial connection settings.

This application software is not classed as a Medical Device. Displayed/Recorded imaging data (including enlarged images) are for reference use only. Diagnosis should only be made by direct visual inspection through the SL-19 plus.

Operation of this application does not normally cause damage to the SL-19 plus, however if you experience any abnormality during use, kindly contact us or your Kowa distributor immediately.

Operating environment of this application

This application is for the iPad series running iPadOS operating system software version 15.4 or later.

Disclaimer

Kowa Company shall not be liable for accidents caused by the iPad Mobile Device on which this application is installed.

Kowa Company can not be held responsible for any damage such as data corruption or loss of data on the iPad Mobile Device due to the use of this application.

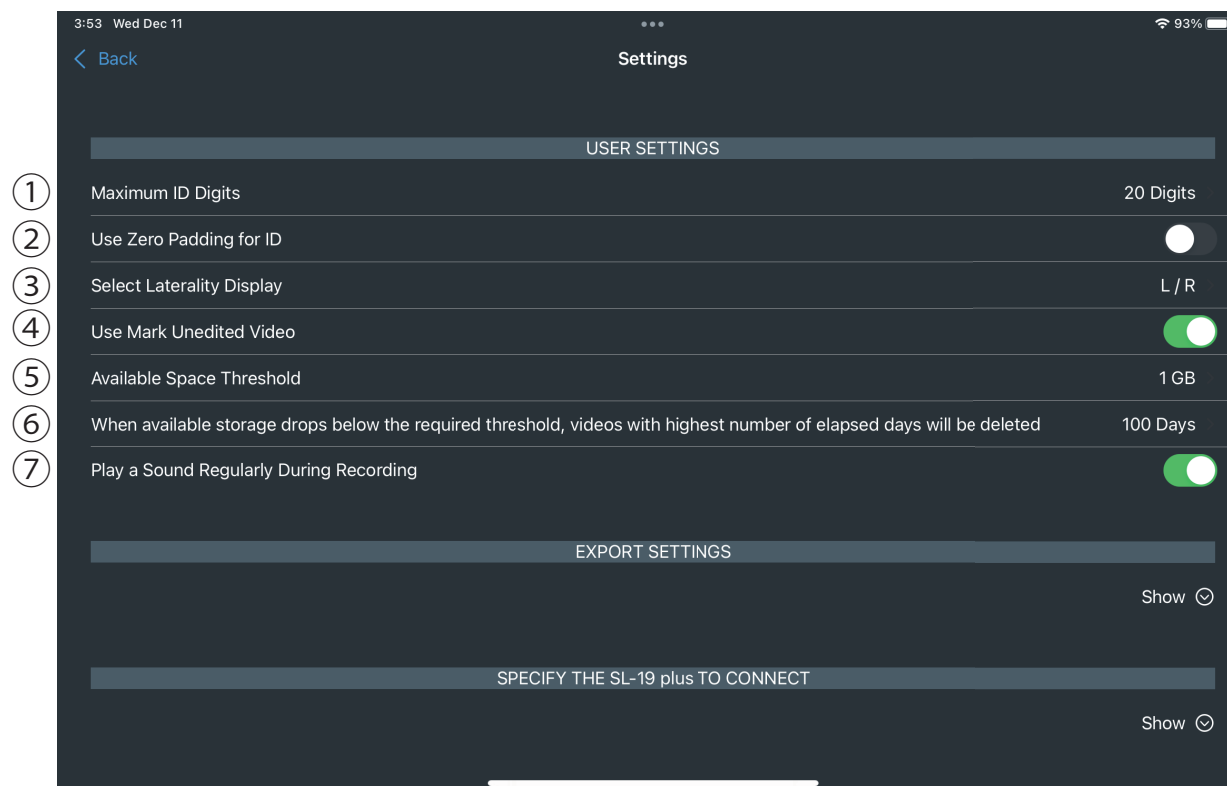
When using the data sharing function, please ensure that the data being shared is sent to the correct destination. Kowa Company can not be held responsible for any damage caused when sharing data.

This document is based on information accurate as of the copyright date.

Recommended operating environments, functions, etc. are subject to change without notice. Please note that the contents of this document may differ.

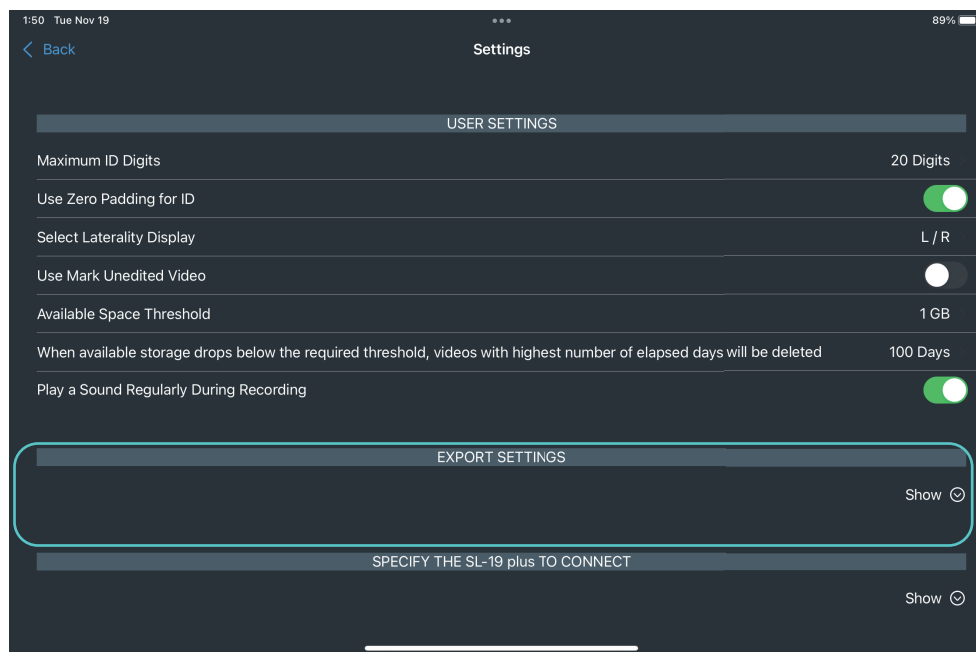
The application operates using a one-to-one wireless LAN connection with the SL-19 plus. Recorded images may be transferred to other personal computers, devices etc... When connecting to a network using the sharing function, kindly ensure that cybersecurity is present.

1 USER SETTINGS



- ① **Maximum ID Digits** (Default value: 20 Setting Range: 1-20)
Indicates the maximum number of characters allowed for Patient ID.
- ② **Use Zero Padding for ID** (Default: OFF)
If an ID with less than the maximum number of characters is entered, confirm whether to fill in the blanks with '0' or not.
- ③ **Select Laterality Display** (Default: L/R)
Indicate whether the left and right eyes are identified as "L/R" or "OD/OS".
- ④ **Use Mark Unedited Video** (Default: ON)

- ⑤ **Available Space Threshold** (Default value: 1 GB, Setting Range: 1GB - 12 GB)
Indicate the minimum free space required to use the App.
- ⑥ **When available storage drops below the required threshold, videos with highest number of elapsed days will be deleted**
(Default value: 100 days. Setting range: 1-100 days)
When free space falls below the value set in the "Free Space Threshold", the application will automatically delete files that fall outside of the specified number of days.
(For further details of this function, kindly ensure refer to the "Other Operation" user guide).
- ⑦ **Play a Sound Regularly During Recording** (Default: Ring)



2 EXPORT SETTINGS

Settings for the export of videos and images to an external device.

"Export function" may not complete successfully if the settings have not been configured correctly.

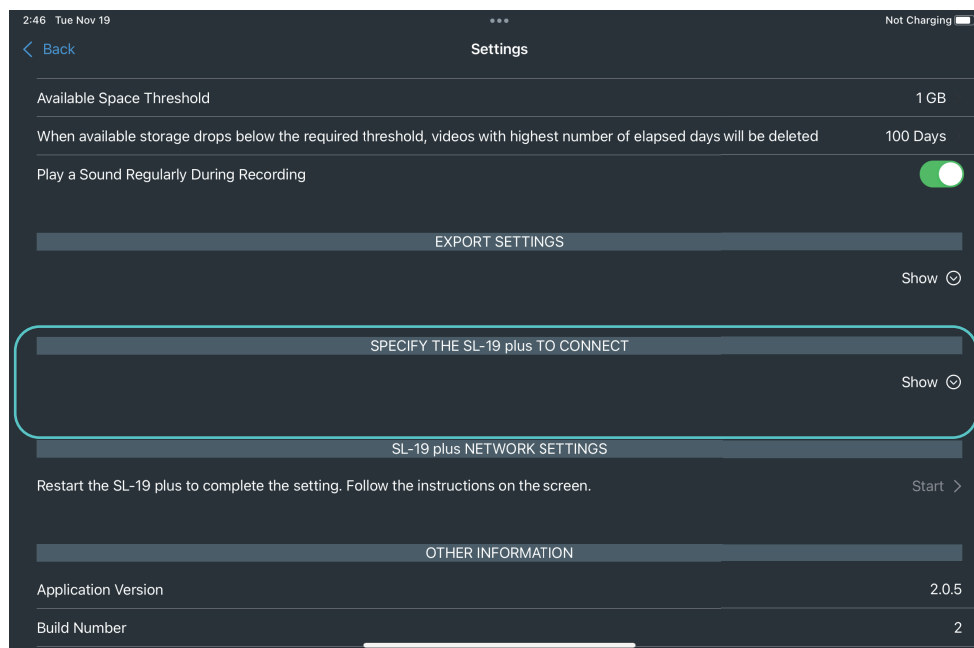
For detailed "Setting" steps, kindly ensure refer to "Export function Output destination : PC" and "Export function Wired LAN" or "Export function Wireless LAN" user guides.

Initial Values:

Export Images and Videos to a Folder (Default: ON).

Export Using Wi-Fi (Default: OFF).

Other settings: (Default: Blank).



3 SPECIFY SL-19 plus TO CONNECT

Identify the device to be connected. For details of the initial connection settings, kindly ensure refer to the "KOWA SL-19 plus Instruction Manual".

If the SSID, encryption key, or IP address details entered in section "4. SL-19 plus NETWORK SETTINGS" differ, the fields here will automatically update to match these.

To switch between devices, update the SSID, encryption key, and IP address for each slit lamp under the "SPECIFY THE KOWA SL-19 plus TO CONNECT" heading.

Images from each slit lamp cannot be retrieved unless the SSID, encryption key, and IP address entered on the App, match the values set on the slit lamp.

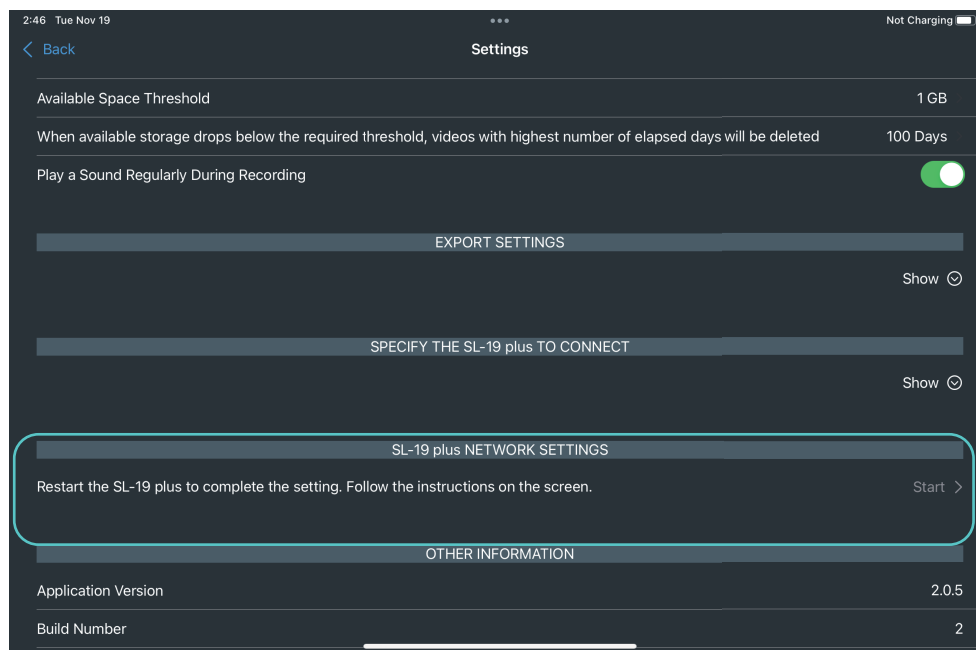
The slit lamp network settings cannot be changed via the App. A secure connection between the App and the device cannot be made unless all fields are entered correctly.

Default vaules:

SSID *1 : "Blank"
Encryption key *2 : "Blank"
IP address *3 : 192.168.42.1

	Accepted character types	Number of characheter spaces
*1	Alphanumeric characters, spaces and symbols (see table)	1 to 32
*2	*Case-sensitive	8 to 63
*3	Numbers and "." (full stop)	0.0.0.0 ~ 255.255.255.255

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4 SL-19 plus NETWORK SETTINGS

You can change the SL-19 plus network settings to improve cybersecurity safety and avoid conflicts with wireless LAN equipment already in use.

In "ACCESS POINT SETTINGS", configure the KOWA SL-19 plus as a wireless LAN access point. In "IP ADDRESS SETTINGS", configure the network settings for the KOWA SL-19 plus.

Factory settings within the "ACCESS POINT SETTINGS" and "IP ADDRESS SETTINGS" CAN NOT be restored if changed, and this affect the ability to connect to your KOWA SL-19 plus. To initialize each setting value of "KOWA SL-19 plus NETWORK SETTINGS", please contact Kowa or your Kowa distributor. Be sure to keep a record of all setting values prior to changing them, so they can be user guidely re-entered if required.

Default value of "ACCESS POINT SETTINGS"

SSID *1 : Can vary dependant on the device serial number
Encryption key *2 : Can vary dependant on the device serial number
Encryption method : WPA2-PSK(AES)
Channel : 36

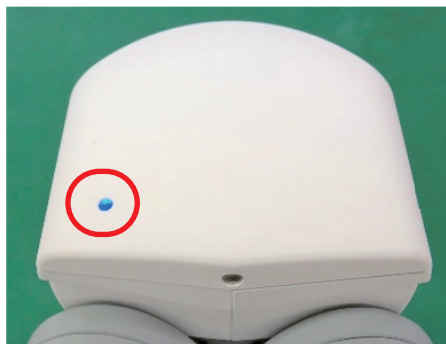
Default value of "IP ADDRESS SETTINGS"

IP address *3 : 192.168.42.1
Netmask *3 : 255.255.255.0
Use DHCP server : true
DHCP start address *3 : 192.168.42.2
DHCP end address *3 : 192.168.42.20

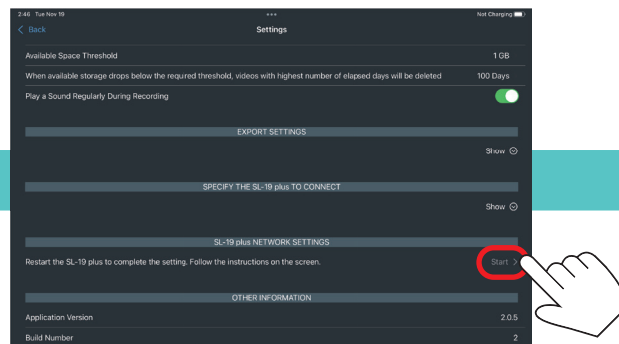
	Accepted character types	Number of characheter spaces
*1	Alphanumeric characters, spaces and symbols (see table)	1 to 32
*2	*Case-sensitive	8 to 63
*3	Numbers and "." (full stop)	0.0.0.0 ~ 255.255.255.255

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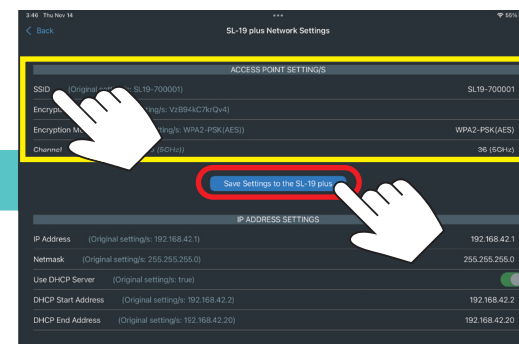
4-1 ACCESS POINT SETTING/S



Check that the slit lamp camera indicator is solid blue/blinking blue.



Tap "Start" in the "SL-19 plus NETWORK SETTINGS".

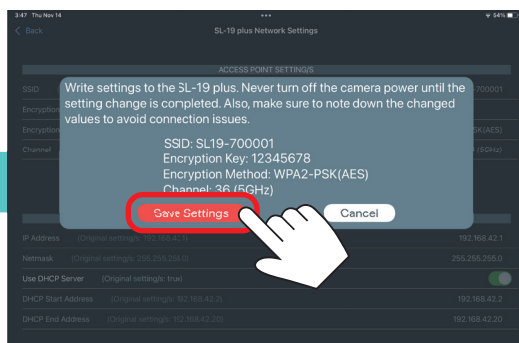


Tap each item in the "ACCESS POINT SETTINGS" column and enter the required values. Once complete, tap "Save Settings to the SL-19 plus".



Caution

Do not turn off the power of the slit lamp while the processing icon is displayed.

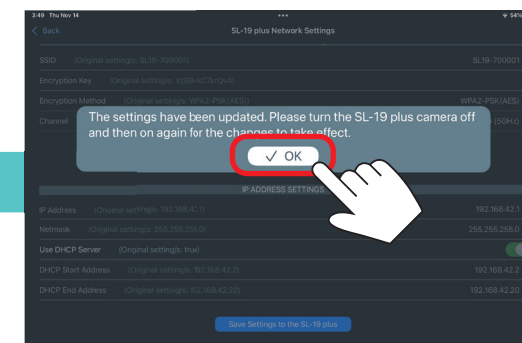


A pop-up will appear, and the values entered will be displayed.

If the values entered are correct, tap "Save settings".

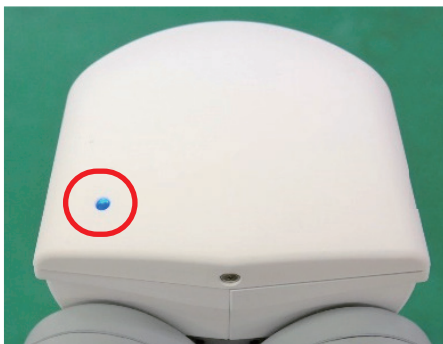


The processing icon will be displayed.
(This may take up to 10 seconds.)

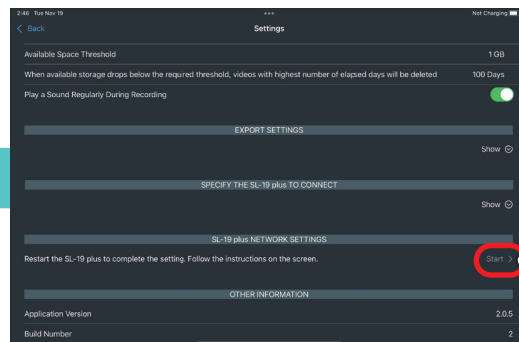


Once complete, a pop-up message will appear. Tap "OK". Now turn off your console, and then restart.

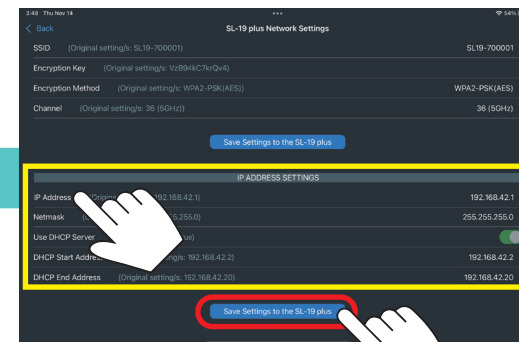
4-2 IP ADDRESS SETTINGS



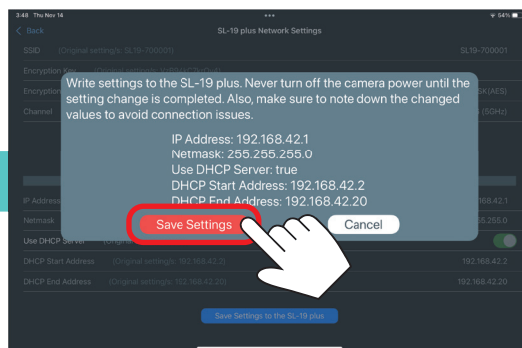
Check that the slit lamp camera indicator is solid blue/blinking blue.



Tap "Start" in the "SL-19 plus NETWORK SETTINGS".



Tap each item in the "IP ADDRESS SETTINGS" column and enter the required values. Once complete, tap "Save Settings to the SL-19 plus".

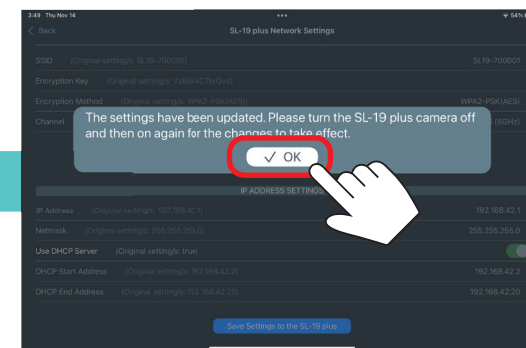


A pop-up will appear, and the values entered will be displayed.
If the values entered are correct, tap "Save settings".

Caution Do not turn off the power of the slit lamp while the processing icon is displayed.



The processing icon will be displayed.
(This may take up to 10 seconds.)



Once complete, a pop-up message will appear. Tap "OK". Now turn off your console, and then restart.



Technology for Life Science



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