English version





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Overview

WLSDMonitor is the dedicated software required to receive files from EyeSpecial C-V.

This allows you to automatically transfer photos saved on EyeSpecial C-V to your computer. The images can also be automatically sorted into folders for each patient (A separate "Shofu Sure File" is required to use this software).

1. Network configuration

The usable and unusable of network configurations are shown below. Please check your network environment and prepare a usable network.

The usable network configuration.

When both EyeSpecial C-V and PC are connected to wireless LAN



When EyeSpecial C-V is connected to a wireless LAN and PC is connected to a wired LAN.



Unusable network configuration

Directly connect the EyeSpecial C-V to the PC



EyeSpecial C-V supports connection via a wireless LAN access point only, and cannot be connected to PC directly.

When the wireless LAN access point does not exist.



EyeSpecial C-V cannot be used without a wireless LAN access point. If there is only a wired LAN, please prepare a separate wireless LAN access point.

2. Transfer images

WLSDMonitor automatically transfers images to your computer when the camera is connected to a wireless LAN at the time of shooting.

3. Automatic sorting of images (Shofu Sure File)



When images are transferred to PC, the Shofu Sure File automatically sort the images into the folder for each patient. You can also set it to save by date in a subfolder of the patient folder. For details, please refer to the instruction manual of Shofu Sure File.

URL : https://www.shofu.co.jp/Sure File/Sure File.html

Overview



Diagram of receiving images



- Images taken without entering patient information will be transferred to the "No Information" folder.
- Images taken with other than Eye Special C-V will not be transferred.

Required environment

The following systems and environments are required for the installation and stable operation of this software.

PC

OS	Windows10, Windows11
Operating environment	.NET Framework4.6.1 is required
	Shofu Sure File (Ver.3.0 or later) is required
Memory	4GB or more is recommended
CPU	1.6GHz2 core or later is recommended
Storage	Usable disk 100GB or more is recommended

LAN

LAN	2.4GHz or 5GHz wireless LAN*
Security	WPA2-PSK authentication
Communication	Bi-directional data transfer between EyeSpecial and PC
	should be allowed

*EyeSpecial C-V supports 2.4GHz and 5GHz (36-48 channels)

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- The official name of Windows is Microsoft® Windows® Operating System.

How to start

How to start WLSD Monitor

Double-click the icon on your desktop.

(Alternatively, you can start from the "Start menu" by selecting "All Programs"-> "SHOFU"-> "WLSD Monitor".)



Confirm that the following icon is displayed in the task tray.



How to start Shofu Sure File

To use WLSD Monitor, you need to have Shofu Sure File started.

Double-click the icon on your desktop.

(You can also start from the "Start menu" by selecting "All Programs"-> "SHOFU"-> "Sure File".)



Confirm that the following icon is displayed in the task tray.



i Information

-It will start automatically from the second time onward.

-You can also change the settings so that it does not start automatically.

Functions

This section describes the functions of this software.

Menu screen

Open WLS	5DMonitor	Home screen will be shown.
Check for	updates(U)	Confirm the version of installed application.
Help(H)		Application manual will be shown.
Quit(Q)		Exit the application.

How to open the menu



Right-click the icon in the task tray to open the menu screen. Left-click to open the home screen.

Screens

This section describes the screen configuration and functions of WLSD Monitor.

【 Home Screen 】

The transfer status from the registered the SD card and the wireless LAN connection status are displayed.



Home Scre	een	
Α	Oper	n the home screen.
В	Oper	the setting screen.
С	Oper	n the help file. (This manual)
D	Oper	n the version information of WLSD Monitor.
E	The displ	status of the registered device is displayed. If you add a new device, the status of each card will be ayed.
	F	Type of the registered device.
	G	Description of the registered device.

н	The status of	the connection.				
	Status	Descrip	otion			
	Stopped	When reception is off.				
	Searching	When searching for a devi	ce.			
	Connected	When the connection be	tween t	the devi	ice and	
		WLSDMonitor is successf	ul.			
	Transferrin	g When transferring images	3.			
	Waiting	When the image trans	fer is o	complete	ed and	
		waiting for the next shoot	ing.			
	Disconnecte	d When the wireless LAN is	stopped	after th	e image	
		transfer is completed, an	d the se	et stand	by time	
		has elapsed.				
	Please wait	When switching reception	on / off.			
т	The capacity	of EyeSpecial C-V.				
1	Icon	Description	Ic	on		Description
		Displayed when a card is			Displa	yed when the card
		not connected.			usage	exceeds 50%.
		Displayed when the card			Displa	yed when the card
		usage is less than 10%.			usage	exceeds 60%.
		Displayed when the card			Displa	yed when the card
		usage exceeds 10%.			usage	exceeds 70%.
		Displayed when the card			Displa	yed when the card
		usage exceeds 20%.			usage	exceeds 80%.
		Displayed when the card			Displa	yed when the card
		usage exceeds 30%.			usage	exceeds 90%.
		Displayed when the card			Displa	yed when the card
		usage exceeds 40%.			usage	exceeds 100%.
	Signal streng	th of EveSpecial C-V				
	Icon De	escription	Icon	Descr	iption	
		isplayed when searching for a		Displa	aved whe	en the signal strength
		evice.	9	is me	dium.	
J		isplayed when communication is		Disple	aved whe	on the signal strength
	di	sconnected.	<i>M</i>	is stro	ng.	in the signal strength
		isnlaved when the signal strength		10 0010		
	is is	weak.				
	Open propert	y screen.				
K	You can char	age device description, device affil	iation, t	time to s	stop the v	wireless LAN connecti
	and setting of free space warning.					
L	Switch ON / 0	OFF of wireless LAN connection.				
ъ	Displays thu	nbnails of received images.				

[Property screen]

E testpropeties	_		×
Card description A test			
Warn if free space falls below the setting	C 20	%	~
Time to stop wireless LAN	D 60	sec	~
ОК	:	Cano	el

1			
	Prop	erty sci	reen
	Α	Ente	r a description of the device. The description will be displayed on G of the home screen.
		Chec	k the box if you want to be warned if the free space is below the setting.
В	В	C	Specify the free space for warning. Can be specified in 10% increments.
D Specify the time to stop the wireless LAN connection of the Shofu wireless SD card after all reception		fy the time to stop the wireless LAN connection of the Shofu wireless SD card after all reception is completed.	

Free space warning



[Settings Screen]

🖳 WLSD	Monitor	-	×
命 A	Settings Image: Automatically start at system startup		
B C	Device management Add a new SHOFU WLSD card Add a new EyeSpecial (C-V or later)		
D	E F	MAC address	
ŝŝ			
?			

Setting	gs screen
Α	WLSDMonitor is automatically activated on startup.
В	Click to register a new Shofu Wireless SD card.
С	Click to register a new EyeSpecial C-V.
D	Open the settings screen. You can change the NETBIOS and Bonjour names, the SSID, network key, IP address, and DNS server specifications. *Not available when the EyeSpecial C-V is connected with WPS.
Е	Write the settings to the device. *The Write Parameters Wizard starts. *Not available when the EyeSpecial C-V is connected with WPS.
F	Delete the card.

[Screen for changing card settings]

EC21E595739Esettings	_		\times
MAC address ⑦			
A EC21E595739E			
NetBIOS, Boniour name 📀			
B 🖌 Automatically granted			
C W_EC21E595739E			
ssid 💿			
D test			
Network kev 🕜			
E ********			
• Show details F Write	to card	Car	ncel

Card setting change Α Enter MAC address. В Check to assign NetBIOS and Bonjour names automatically. С Enter if you name NetBIOS and Bonjour yourself. D Enter SSID. Е Enter network key. Write the settings to the device. *The Write Parameters Wizard starts. \mathbf{F} *For the EyeSpecial C-V, the parameters must be written to the SD card and then read by the EyeSpecial C-V.

🚺 Note

About NetBIOS and Bonjour names

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Communication may become unstable if there are two NetBIOS with the same name in the same network.

If you specify the NetBIOS name by yourself, please be careful not to use the same name.

How to set up a new EyeSpecial C-V

When you purchased a new EyeSpecial C-V, please follow the steps below to register your new

EyeSpecial C-V. There are two ways to setup the wireless network. Please follow one of the steps below.

P.12 Set up using WPS

P.18 Set up using WLSDMonitor's wizard

Set up using WPS

- 1. Install Shofu SureFile and WLSDMonitor
- 2. Start WLSDMonitor. (Please refer to "How to Start" on P. 5.)
- 3. Select "Wi-Fi settings" in the setup menu. Press the MENU key > F4 > tab5 > Wi-Fi settings



4. Select "Wi-Fi".



5. Select "ON".



6. Select "Register access point".



7. Select "OK".

_	Register access	point	
	The current acc will be erased. Register new ac now?	ess point cess point	
_	ОК	Cancel	

8. Select "Simple Settings (WPS)".



9. Select either "WPS (PBC method)" or "WPS (PIN method)".



[™]For this to work, your router must support WPS.

10. Establish connection

Press the WPS button on your access point (or wireless LAN router) or enter the PIN code and press OK within 2 minutes.

*For how to enter the PIN code, refer to the instruction manual of your access point (or wireless LAN router).



When the access point registration is completed, the following screen appears, please press OK.



11. Start the WLSDMonitor and press the settings icon [1].



12. Select "Add a new EyeSpecial (C-V or later)".



13. Press "Next".

G _		-		×
- Add new EyeSpecial				
Welcome to the "Add EyeSpecial" wizard				
This wizard helps you register an EyeSpecial to your computer.				
			<u>вно</u> г	IJ
[Next		Cancel	

14. Check the displayed conditions, tick if they are met and press "Next".



15. Enter the MAC address displayed on the EyeSpecial C-V at "Display information"

and then press "Next".

To open the "Display information": Press the MENU key > F4 > tab 5 > Wi-Fi settings

> Display information.



16. Check "Connect EyeSpecial to the network via the router's WPS function" and press "Next".



17. Enter a description for your device and press "Complete".

C.	-		\times
← Add new EyeSpecial			
Register device description			
Register a brief description on the device that explains the purpose of use.			
Device description			
		вно	FU
Comp	lete	Cance	el

18. On the home screen of WLSDMonitor, set the receiving switch of the device you want to connect to



Set up using WLSDMonitor's wizard

- 1. Install Shofu SureFile and WLSDMonitor
- 2. Start WLSDMonitor. (Please refer to "How to Start" on P. 5.)
- 3. Press the settings icon [0].

Subsection WLSDMonitor			-	\times
ŵ				
	Please register	your device		
ŝ				
?				
()				

4. Select "Add a new EyeSpecial (C-V or later)".



5. Press "Next".

D	_		\times
Add new EyeSpecial			
Welcome to the "Add EyeSpecial" wizard			
This wizard helps you register an EyeSpecial to your computer.			
		вно	FU
		6	
Ne	xt	Cance	51

6. Check the displayed conditions, tick if they are met and press "Next".



7. Enter the MAC address displayed at "Display information" of the camera and then press "Next".
To open the "Display information": Press the MENU key > F4 > tab 5 > Wi-Fi settings

> Display info rmation.

8. Check "Load the configuration file created by this wizard into EyeSpecial and connect it to the network" and press "Next".



9. Select or enter the SSID and the network key of the router. Then press "Next".

$\boldsymbol{\cdot}$ To select SSID from the pull-down menu

Select the SSID to connect to from the pull-down list, enter the network key, and click "Next". If the SSID does not appear in the pull-down list, click "Update List".

*Only channels 36-48 are displayed for the 5GHz band.

G.	-		×
Add new EyeSpecial			
Register SSID and network key			
Register the SSID and network key of your access point. These are usually printed on the back of the wireless LAN router. Network key is sometimes called encryption key, password, or security key.			
SSID : x0000000 Network key : x000000000			
SSID Enter the SSID manually			
Network key		вно	FU
Nex	t	Canc	el

\cdot To enter SSID manually

Check the "Enter the SSID manually" checkbox, enter the SSID and network key in the text box, and click "Next."

G.	-		×
- Add new EyeSpecial			
Register SSID and network key			
Register the SSID and network key of your access point. These are usually printed on the back of the wireless LAN router. Network key is sometimes called encryption key, password, or security key.			
SSID : x0000000 Network key : x000000000			
SSID Enter the SSID manually			
Network key		SHO	FU
Nex	t	Cance	el

10. Enter a description for your device and press "Write to card". The writing wizard that you will use in the next step is displayed.

G	-		×
Add new EyeSpecial			
Register device description			
Register a brief description on the device that explains the purpose of use.			
Device description			
Setting is complete. Continue to write the settings to the SD card and load them in EyeSpecial.		вно	PFU
Wite to	card	Cano	el

11. Confirm that the MAC address displayed at "Display information" of the camera matches the MAC address displayed at the writing wizard. Then press "Next".

To open the "Display information": Press the MENU key> F4 > tab 5 > Wi-Fi settings > Display information



12. Insert an SD card into the SD card slot of your computer and press "Next".



13. Select the drive in which the SD card is inserted and click "Next".

D _m	_		×
← Write configuration file. Target MAC address:			
Select a drive			
Select the drive in which the SD card is inserted.			
Available drives			
Removable Disk(D:) 14.62 GB free : ~			
	Next	Cano	el
		Cane	

14. Press "Next" to start writing the configuration file.



15. Please wait until the writing of the configuration file is completed. Subsequently the message "Writing of configuration file is completed and the SD card is unmounted" is displayed. Press "Finish" and remove the SD card from your computer.



16. Insert the SD card with the settings written in step 3 into the camera.

Select "Wi-Fi settings" in the setup menu.

To open the "Wi-Fi settings": Press the MENU key > F4 > tab 5 > Wi-Fi settings.



17. Select "Wi-Fi".



18. Select "ON".

\bigotimes	
	Wi-Fi
	ON
•	OFF

19. Select "Register access point".



20. Press "OK".



21. Select "Loading settings from SD card".





Loading settings	s from SD card	
Load configurat	ion file now?	
ОК	Cance I	

23. If the configuration file is successfully loaded, press "OK".



24. On the home screen of the receiving software, set the receiving switch of the device you want to connect to "ON".



How to use

How to use this software in day-to-day operations

(1) Start both WLSD Monitor and Shofu Sure File. For details, see P.5 "How to start".

(2) Switch on wireless LAN at the "Home screen" of WLSD Monitor.



(3) Insert SD card into Eye Special.



(4) Take photo with Eye Special.

(5) Captured images are transferred to the PC on which WLSD Monitor is installed via wireless LAN and are sorted into each folder for each patient by Sure File.



WLSD Monitor can be used with images taken with Eye Special C-V only.

Reference information

Icons displayed on the LCD screen of Eye Special C-V when the card is inserted.

Icons displayed on Eye Special C-V switches when you insert the SD card. The icons shown in A, B, and C below will be displayed on the screen. The types and meanings of each icon are explained below.



LCI	O screen indicator :	for shooting mode of Eye Special C-V	
Δ	The icon changes	according to the status of the inserted SD card.	
	Icon	Description	
		Displayed when the wireless LAN function is OFF	
		Displayed when there is an error on the SD card	
	2	Displayed when the wireless LAN connection is started, and communication is not completed	
	0	Displayed when all images on the SD card have been transferred to your computer	
	.	Displayed when there are transferred images on the SD card	
В	The icon changes	according to the signal condition of the wireless LAN.	
	Icon	Description	
	× STA	Displayed when the wireless LAN function is OFF	
	2	Displayed when the wireless LAN function is ON and not	
	STA	connected to the access point	
	STA	Displayed when the signal strength is weak	
	STA	Displayed when the signal strength is moderate	
	STA	Displayed when the signal strength of the card is strong	
	The icon changes software.	according to the communication status between the camera and the	receiving
	Icon	Description	
C	*	This icon is displayed when communication between the camera and WLSDMonitor (receiving software) is taking place. Do not remove the SD card or turn the camera off while this icon is displayed.	

FAQ (Trouble Shooting)

Question	Answer
Image is not transferred.	Please reboot each of Eye Special, PC, and access point.
	Format the SD card on your computer. After formatting,
	write the settings to the card.
The data on the SD card	Please format the card on your computer. After formatting,
has been garbled.	write the settings to the card.
Accidentally formatted it	Please format the card on your computer. After formatting,
with a digital camera.	write the settings to the card.
is displayed when the	The error may have occurred because the card was removed
SD card is inserted into	and inserted in rapid succession. Remove the SD card,
EyeSpecial.	pause for a moment, and slowly insert it again. If the
	problem persists after several attempts, format the card on
	your computer again.

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