Welch Allyn RetinaVue™ 100 Imager



Directions for use Software version 6.XX



Advancing Frontline Care[™]

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Distributed by Welch Allyn, Inc.



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Symbols

Documentation symbols

For information on the origin of these symbols, visit http://www.welchallyn.com/ symbolsglossary for the Welch Allyn symbols glossary.

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WARNING The warning statements in this manual identify conditions or practices that could lead to illness, injury, or death. Warning symbols will appear with a grey background in a black and white document.



Consult directions for use (DFU). A copy () of the DFU is available on this website. A printed copy of the DFU can be ordered from Welch Allyn for delivery within 7 calendar days.

Caution The caution statements in this manual identify conditions or practices that could result in damage to the equipment or other property, or loss of data.

Meets essential requirements of the European Medical Device Directive 93/ 42/EC.

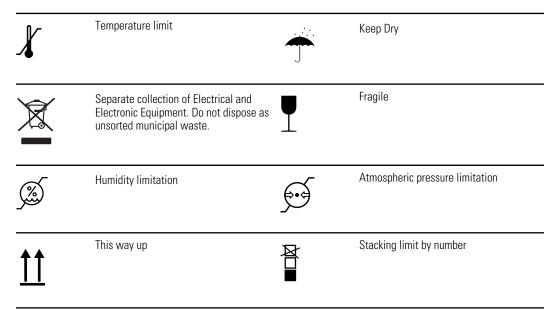
Power symbols

Ċ	Power button		Direct current (DC)	
≕	Rated power input, DC		Rated power output, DC	
₽	Fuse	€+/← Li-ion	Rechargeable battery	
7	Battery Charging - Non-AC powe	red		

Connectivity symbols

	•	USB	Ψ	Wireless
	$\langle X \rangle$	Expected connection to the the RetinaVue Network Server is not occuring.		
Wireless	radio s	symbols		
	(((•)))	Non-ionizing electromagnetic radiation	ΨιΙ	 Wireless signal strength Best (4 bars) Good (3 bars) Fair (2 bars) Weak (1 bar) No signal (no bars) No connection (X)
		The identification number assigned by the Federal Communication Commission 2AFB3WA-WEC100	IC ID	Industry Canada identification number. The equivalent governing body to the FCC in the United States 21375-WAWEC100 CAN ICES-3 (B)/NMB-3(B)
	$\textcircled{\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Australian Communications and Media Authority (ACMA) Radio Compliance Mark (RCM)		

Shipping, storing, and environment symbols





Recyclable

Miscellaneous symbols

REF	Product Identifier	#	Reorder Number
GTIN	Global Trade Item Number		For indoor use only
Ŕ	Type BF applied part	R _x only	Prescription only or "For Use by or on the order of a licensed medical professional"
	Clock; time switch; timer	SN	Serial Number
EC REP	Authorized Representative in the European Community	IPXO	Degree of protection provided by enclosure (IP code)

Battery charge level indicators

Device is running on battery and charge is between 75 and 100 percent.		Device is running on battery and charge is below 75 percent.
Device is running on battery and charge is below 50 percent.		Device is running on battery and charge is below 25 percent.
Device is running on battery and charge is below 10 percent. Device blinks with alternating icons.	-□	Device is connected to a power supply and is docked.

4 Symbols

Introduction

Intended use

The Welch Allyn RetinaVue 100 Imager is a digital hand-held eye-fundus camera used to record digital photographs of the fundus (including retina, macula and optic disc) of the human eye and surrounding area.

Prescription only or "For Use by or on the order of a licensed medical professional".

About warnings and cautions

Warning and caution statements can appear on the RetinaVue 100 Imager device, the packaging, the shipping container, or in this *Directions for use*.

The RetinaVue 100 Imager is safe for patients and clinicians when used in accordance with the instructions and the warning and caution statements presented in this *Directions for use.*

Before using the device, you must familiarize yourself with all warnings and cautions, with the steps to power up the device, and with the sections of this *Directions for use* that pertain to your use of the device. Specific warnings and cautions are also found throughout this manual.

- Failure to understand and observe any warning statement in this manual could lead to patient injury or illness.
- Failure to understand and observe any caution statement in this manual could lead to damage to the equipment or other property, or loss of patient data.

General warnings, cautions, and notes



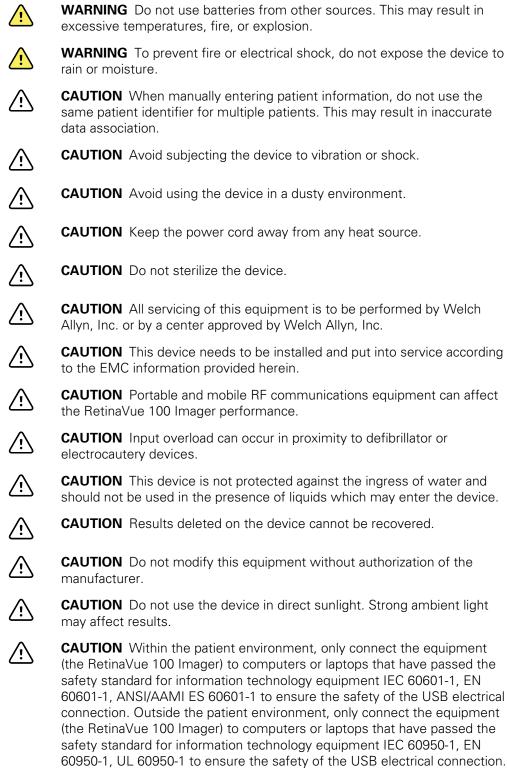
WARNING Exposure to the RetinaVue 100 Imager flash, in rare cases, may contribute to migraines or temporary visual disturbances, particularly in patients with a history of light sensitivity or migraines. Multiple flashes per eye in a single exam may increase the likelihood of occurrence.



WARNING Clean and disinfect the eye cup after each patient to avoid the risk of cross-contamination.

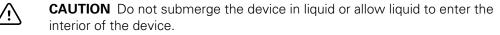


WARNING Operating the device in the presence of a flammable anesthetic mixture with air, oxygen, or nitrous oxide; in oxygen-enriched environments; or in any other potentially explosive environment may cause a fire and explosion hazard.





CAUTION Do not turn off the device while saving data from a patient test. Turning off the device while saving patient data may delete the data. **CAUTION** Do not use the device adjacent to or stacked with other equipment. If the device is used adjacent or stacked with other equipment, the device should be observed to verify normal operation in the configuration in which it will be used.





CAUTION Do not use automatic cleansing machines or sterilization.



CAUTION Consult the cleaning agent and germicidal cleaner agent manufacturer instructions for their proper use and germicidal efficacy prior to their use.



CAUTION Only use the cleaning or germicidal cleaner agent types listed or damage may occur.

Note The RetinaVue 100 Imager can be used on patients with eye implants and intraocular lenses. While the RetinaVue 100 Imager can be used on patients with cataracts and other eye opacities, the use of the RetinaVue 100 Imager may result in a lower quality image due to the increased reflection of the flash off the patient's intraocular lens.

Controls and connectors

			9
No.	Feature	Description	
1	Docking station		inaVue 100 Imager Pro and enables data transfer connect to an electrical outlet or to the "Always a computer.
		Note	USB ports supply power only when the computer is on. However, many newer computers contain a yellow "Always On" USB port that can supply power even when the computer is sleeping, hibernating, or turned off. See you computer manufacturer's user documentation for instructions on changing the power management options and for identifying the "Always On" USB port.
2	RetinaVue 100 Imager device	Digital hand-hel photographs of t area.	d eye-fundus camera used to record digital the fundus of the human eye and surrounding
3	SD Card port/service port	SD Card slot. Ins	sert SD Card for data storage.
		Note	The service port under the SD Card cover is for factory use only and is not for customer use.
4	Еуе сир	Blocks ambient	light during testing
5	Power button	Push butto	

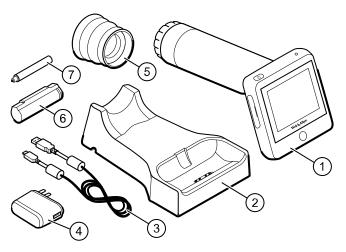
No.	Feature	Description	
		o Cancel	
6	Power indicator	 When the LED light is green, it indicates that the device is docked and is fully powered. When the LED light is amber, it indicates that the device is docked and is in the process of charging. When the device is not docked the LED is off. 	
7	LCD touchscreen	3.5" color HD LCD touchscreen. Displays information for charging, testing, and adjustments to the device.	
8	Home button	Press the Home button to navigate to the Home screen (workflow selection) from any screen on the device.	
9	Battery cover	Covers the battery compartment	
10	Bezel	Area to which the eye cup attaches	

Using the RetinaVue 100 Imager

View images saved to the RetinaVue 100 Imager on the LCD touchscreen. The images saved on the SD card are encrypted. To view the images on the PC, install the RetinaVue Network software. For information on the RetinaVue Network Software visit www.RetinaVue.com.

Unpack the system

The RetinaVue 100 Imager device is packaged with the following items. Confirm that all items are included.



Number	ltem	Description
1	RetinaVue 100 Imager device	Digital hand-held eye-fundus camera used to record digital photographs of the fundus of the human eye and surrounding area.
2	Docking station	Charges the RetinaVue 100 Imager device and enables USB data transfer to a computer or laptop. Connect to region-specific AC wall outlet.
3	USB cable	Connects the docking station to a computer or laptop to transfer results. Connects the docking station to the wall adapter plug for AC charging.
4	Wall adapter plug	Connects to USB cable. Match to region-specific AC wall outlet.

Number	ltem	Description
5	Eye cup	Blocks ambient light during testing
6	Battery	Rechargeable lithium ion battery
7	Screwdriver	Phillips screwdriver to remove battery cover screws
Not shown	RetinaVue 100 Imager <i>Directions for use</i>	This document. The <i>Directions for use</i> (DFU) is also available on the Welch Allyn web site.
Not shown	SD Card	SD Card installed in the SD Card slot for data storage
Not shown	Lens spray	RetinaVue 100 Imager lens cleaner
Not shown	Lens cloth	RetinaVue 100 Imager lens cleaning cloth

If any item is missing, contact Welch Allyn Technical Support: <u>www.welchallyn.com/</u> <u>service</u>. We recommend that you save the shipping box and packing materials in case you need to store or ship the system.

Battery installation and replacement

Use the device on battery power once the battery is installed and charged. The battery is charged through contact pins on the device and the docking station.

Install the battery/replace the battery

Set the RetinaVue 100 Imager on a flat, clean surface with the LED display facing down.

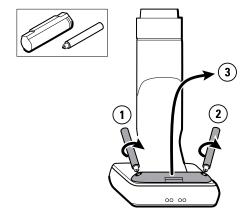


WARNING Personal injury risk. Improper handling of the battery can lead to heat generation, smoke, explosion, or fire. Do not short-circuit, crush, incinerate, or disassemble the battery. Never dispose of batteries in refuse containers. Always recycle batteries according to national or local regulations.

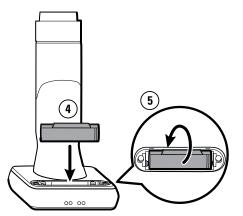


WARNING Use only Welch Allyn approved accessories, and use them according to the manufacturer's directions for use. Using unapproved accessories with the camera can affect patient and operator safety and can compromise product performance and accuracy, and void the product warranty.

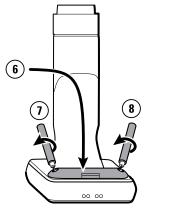
- 1. Loosen the screw at the left side of the battery cover.
- 2. Loosen the screw at the right side of the battery cover.
- 3. Push in the battery cover tab and then lift up the battery cover. Slide open the battery cover by tilting the cover upward.



- 4. For first-time setup of the RetinaVue 100 Imager, insert the battery into the battery compartment. For battery replacement, remove the existing battery and then insert the new replacement battery into the battery compartment.
 - a. This procedure applies to first-time setup of the RetinaVue 100 Imager. Insert the battery into the battery compartment. Match the polarity of the battery to the + and - markings on the RetinaVue 100 Imager.
 - b. This procedure only applies to battery replacement. Remove the existing battery from the battery compartment and insert the new replacement battery into the battery compartment. Match the polarity of the battery to the + and markings on the RetinaVue 100 Imager.
- 5. Rotate the raised flat edge of the battery until it sets in the back notch of the battery compartment.



- 6. Insert the two battery cover tabs into the slot, then push in the tab to close the battery compartment.
- 7. Tighten the screw at the left side of the battery cover.
- 8. Tighten the screw at the right side of the battery cover.



Note

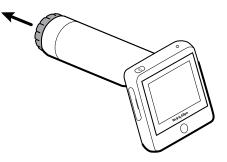
Do not over-tighten the screws.

Eye cup

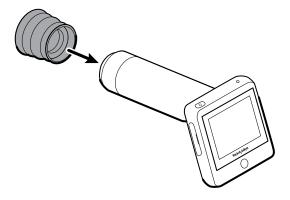
The eye cup blocks ambient light during testing and covers the patient's eye socket to allow them to best focus on the green fixation lights. The eye cup works on the patient's left and right eye.

Set up the eye cup for a patient exam

1. Remove the lens cap from the RetinaVue 100 Imager.



2. Slide the eye cup over the bezel on the RetinaVue 100 Imager.



3. Use the eye cup to cover the patient's examined eye and allow them to focus on the green fixation lights.



Hold the RetinaVue 100 Imager for a patient exam

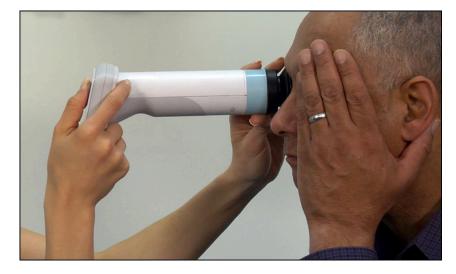
The RetinaVue 100 Imager must be held level and in line with your patient's eye.

There are two recommended techniques to properly hold the RetinaVue 100 Imager for a quick and successful retinal exam:

Telescope Grip

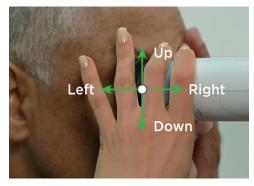


Smart phone Grip



Make micro adjustments with your guide hand to fine tune the focus of the RetinaVue 100 Imager.

Guide (Patient End) Hand



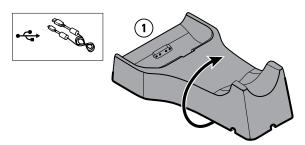
Hold the patient end of the RetinaVue 100 Imager with just the thumb and forefinger. Use the small and ring finger to steady the RetinaVue 100 Imager by anchoring them gently on the patient's forehead.

Docking station

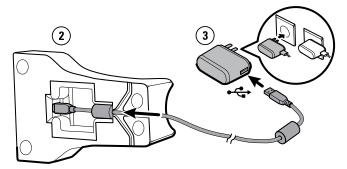
Place the device into the docking station to charge the device or to connect and transfer data to a computer or laptop PC running the RetinaVue Network[™] software. (Requires additional software).

Set up the docking station for charging

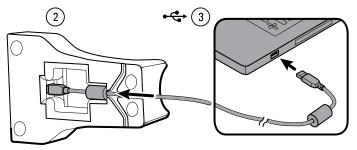
1. Turn the docking station over.



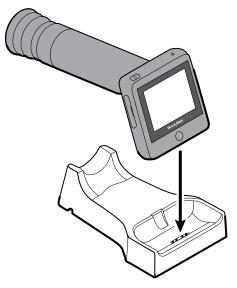
- 2. Connect the USB cable to the docking station.
- 3. Either plug the USB cable into the wall adapter plug and then plug the wall adapter into an AC outlet, or plug the USB cable into the "Always On" USB port on a computer.
 - a. Plug the USB cable into the wall adapter plug and then plug the wall adapter into an AC outlet.



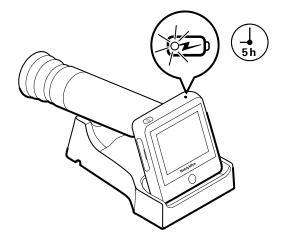
b. (Optional) Plug the USB cable into the "Always On" USB port on a computer.



4. Place the RetinaVue 100 Imager on the docking station charger with the contact pins of the RetinaVue 100 Imager touching the contact pins of the docking station charger.



- 5. Before the first use, allow the RetinaVue 100 Imager to charge for 5 hours on the docking station charger.
 - **Note** The power indicator light turns amber to indicate that the RetinaVue 100 Imager is in the processing of charging. If the power indicator light does not turn on, ensure that the contact pins of the RetinaVue 100 Imager are touching the contact pins of the docking station charger and reseat the RetinaVue 100 Imager into the docking station. Charging is impacted if the pins are not properly touching.



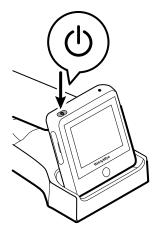
Note

The removal of the plug from the socket provides the means of isolation from the mains power supply. The user is reminded to keep this means of disconnection easily accessible in case of emergency.

Startup

Power

The Power button, located on the upper-left corner of the RetinaVue 100 Imager, performs multiple functions:



- powers up the RetinaVue 100 Imager
- wakes the RetinaVue 100 Imager from Sleep mode
- opens a dialogue screen with controls to power off, enter Sleep mode, or to cancel and return to the prior screen, depending on the option you choose

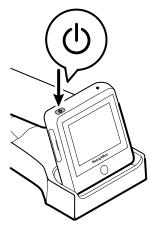
Power up the RetinaVue 100 Imager

The RetinaVue 100 Imager runs a brief diagnostic self-test each time it powers up.



CAUTION Always use the RetinaVue 100 Imager with an adequately charged and properly functioning battery.

Press O to power up the RetinaVue 100 Imager.



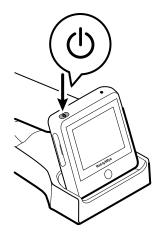
As the device is powering up, the RetinaVue 100 Imager displays the Welch Allyn logo.

- If your facility has chosen to use a Device access code or an Advanced settings code, then the first image you see is the login screen.
- If your facility has not chosen to use a Device access code or Advanced settings code, then the first image you see is the Home screen.

First time selection of USB connectivity workflow

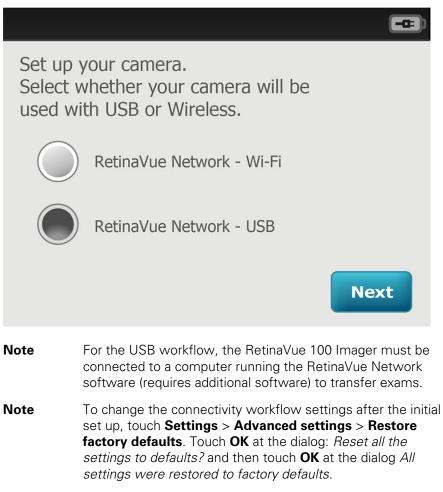
The RetinaVue 100 Imager runs a brief diagnostic self-test each time it powers up.

1. Press 0 to power up the RetinaVue 100 Imager.



After the RetinaVue 100 Imager displays the Welch Allyn logo, the first-time camera setup wizard screen appears.

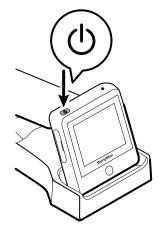
- **Note** The USB or Wi-Fi camera setup only needs to be completed once unless a change to the connectivity workflow is desired.
- 2. Touch RetinaVue Network USB to select the USB workflow and touch Next.



First time selection of Wi-Fi connectivity workflow

The RetinaVue 100 Imager runs a brief diagnostic self-test each time it powers up.

1. Press 0 to power up the RetinaVue 100 Imager.



After the RetinaVue 100 Imager displays the Welch Allyn logo, the first-time camera setup wizard screen appears.

- **Note** The USB or Wi-Fi camera setup only needs to be completed once unless a change to the connectivity workflow is desired.
- 2. Touch RetinaVue Network Wi-Fi to select the wireless workflow and touch Next.



- 3. Touch (up) or (down) to enter, or adjust, the Day, Month, and Year. Touch **Next**.
- 4. Touch (up) or (down) to enter, or adjust, the Hour, Minute (Min), Continent, and Location. Touch **Next.**

- **Note** Use the radio buttons to select the 24-hour or 12-hour format. The available wireless networks appear on the *Select a Wi-Fi connection* screen.
- 5. From the list of available networks, touch on the Wi-Fi connection that you want to connect to.

	Ψ		-
Select a Wi-Fi connection:			
aaWiFi 🗱	1	ıII	>
bbWiFi	1	ıII	>
ccWiFi	1		>
ddWiFi	1		>
Othor			•
+			

- **Note** *Wi-Fi network names shown here are examples.
- **Note** If you don't see the desired Wi-Fi network that you want to connect to, you may need to scroll down.
- **Note** During Wi-Fi communication, the RetinaVue 100 Imager camera only supports the use of the following secure authentication types: WPA2, WPA2-PSK, WPA2-Enterprise (EAP-PEAP), and IEEE 802.11i. Open networks from public access points are not supported. See the the *Device radio* section for further information. If you don't see the network name in your list it might be a hidden network. Select "Other" and enter the network name. See the *Troubleshooting* section for further information.
- 6. Using a secured network, enter your network Wi-Fi Username and Password or a Passphrase and touch **Connect**.
 - a. (Optional). Touch **Remember this connection** and touch **Connect** to use the selected network for subsequent Wi-Fi connections.
- 7. To continue setup, launch an internet browser from a computer and enter the following address: https://www.retinavue.net/RN_CustomerPortal/.
- 8. On your RetinaVue 100 Imager camera, touch Next.
- 9. On the RetinaVue Network Customer Portal, enter your RetinaVue Network Username and Password then click **Log In.**

WelchAllyn
RetinaVue [™] Network
Authorized users only. All activity on this website is monitored and recorded.
User Name:

Password:
•••••
Log In
Reset Password
GTIN (01)00732094253443

- **Note** If prompted, click **I agree** to accept the End User License Agreement on the RetinaVue Network Customer Portal.
- 10. On the RetinaVue Network Customer Portal, select *Manage Devices (wireless only)* and click **Next**.

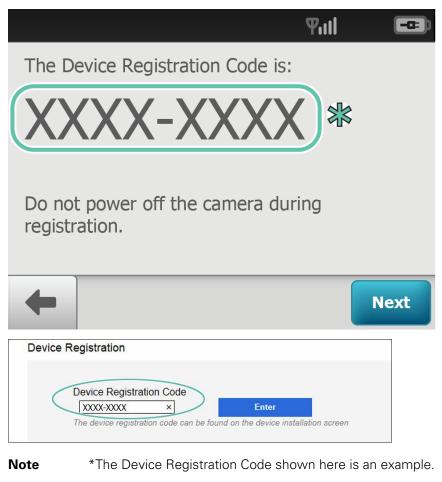
Welcome to the RetinaVue Customer Portal

OView Scheduled Patients (wireless only)	
○ View New Diagnostic Reports	
○ Search Diagnostic Reports	
OView Statistics	
Manage Devices (wireless only)	
O Manage Clinics	
O Edit Company Information	

11. Click Add Device.



- 12. On your RetinaVue 100 Imager camera, touch **Next** to generate a Device Registration Code.
- 13. On the RetinaVue Network Customer Portal, enter the Device Registration Code from the RetinaVue 100 Imager and then click **Enter**.



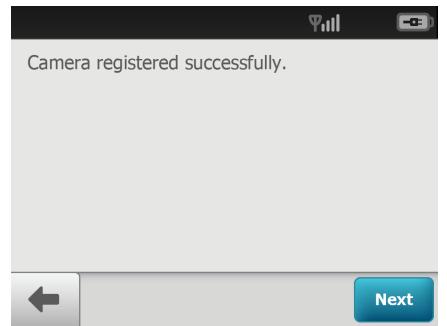
- **Note** The *Next* button is greyed out until the Device Access Code is received by the RetinaVue 100 Imager camera from the RetinaVue Network Customer Portal.
- **Note** The Device Registration Code needs to be entered into the RetinaVue Network Customer Portal as it appears on the RetinaVue 100 Imager *device installation* screen including the dash (–).
- **Note** The code expires after 30 minutes.
- 14. On the RetinaVue Network Customer Portal , enter a Device Name (optional) and select a clinic, or clinics, where the RetinaVue 100 Imager camera will to be used. Select each clinic by clicking the check box next to the clinic name and then click **Add Device**.

Device Seri	al Number	x
34160044		
Select clinic	#### cs to associate with this ca Clinic Name	Address
	Mountain View Clinic	1234 Red River Road, Canyon Top, UT
	Valley View Clinic	12345 Riverbend Ave, Valley View, UT

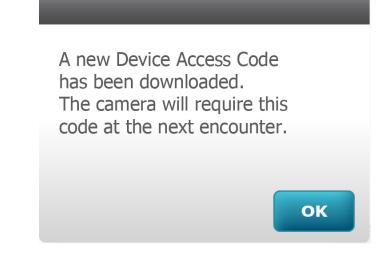
- a. (Optional) To select multiple clinics where the RetinaVue 100 Imager camera will be used at, select each clinic by clicking the check box next to the clinic name.
- b. (Optional) To enable a Device Access Code for the RetinaVue 100 Imager camera, select the **Device Access Code** checkbox and enter your code into the *Device Access Code* field. The camera and the RetinaVue Network Customer Portal support from 4 to 6-digits in the Device Access Code.

Note Setting the Device Access Code before first use provides additional security features in the RetinaVue 100 Imager to prevent unintended access to patient information by unauthorized individuals.

- 15. On your RetinaVue 100 Imager camera, touch **Next** at the *Device Registration Code* screen.
- 16. On your RetinaVue 100 Imager camera, touch **Next** on the screen: *Camera registered successfully.*



17. (Optional) If a Device Access Code was selected at the RetinaVue Network Customer Portal, touch **OK** at the dialogue: A new Device Access Code has been downloaded. The camera will require this code on next encounter.



 (Optional) If multiple clinics were selected at the RetinaVue Network Customer Portal, use the drop-down menu to select the primary clinic where exams will be performed and then touch **Next**.

	ΨıII	
For multi-clinic use, select a single where exams will primarily be pe		
+		Next

19. Touch **OK** at the *Setup complete* screen.



20. (Optional) If a Device Access Code was set at the RetinaVue Network Customer Portal, enter the Device Access Code on the RetinaVue 100 Imager and touch **OK**.

		ዋብ	II	-
Device access code		1 4 7	2 5 8	3 6 9
		0	0	К
Device acce	ess code			

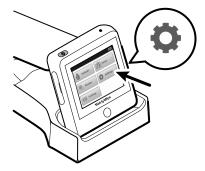
Select or change a clinic on the RetinaVue 100 Imager camera (wireless only)

- 1. Touch **Settings** on the RetinaVue 100 Imager *Home* screen.
- 2. Touch Clinic / States.
- 3. Use the drop-down menu to select a clinic.

	SELECTED CLINIC ID	ዋ።በ	
	Select a clinic:		
	Multi-State	OFF	ON
	States	None selecte	ed >
	Settings Clinic / States		
4.	Touch (Back) to return to the	Settings screen.	
5.	Touch (Home) to return to th	e RetinaVue 100 Imager <i>Ho</i>	ome screen.

Select or change a Multi-State clinic on the RetinaVue 100 Imager camera (wireless only)

1. Touch Settings on the RetinaVue 100 Imager Home screen.



- 2. Touch Clinic / States.
- 3. If multiple clinics are set up, use the drop-down menu to select the clinic you would like to set up for Multi-State use.
- 4. Touch Multi-State. The switch changes from Off to On.

SELEC	TED CLINIC ID	Yıll 📼
Select	a clinic:	
Multi	-State	
State	S	None selected >
	<u></u>	
4	Settings	
	Clinic / States	

- Touch States to select between 2 and 6 States for the clinic. Touch More to see additional States and to proceed to OK when the desired number of States are selected.
- 6. Touch **OK** to return to the *Clinic/State Settings* screen.
- 7. Touch **(Back)** to return to the *Settings screen*.
- 8. Touch **I** (Home) to return to the RetinaVue 100 Imager *Home screen*.

CONFIRM EXAM LOCATION
Where was this exam performed?
○ ww ○ ww ○ ww
ww ww ww
Cancel OK

Note

Schedule a patient from the RetinaVue Network Customer Portal (wireless only)

1. Select **Schedule a Patient (wireless only)** from the RetinaVue Network Customer Portal *Welcome screen* and then click **Next**.

Welcome to the RetinaVue Customer Portal



2. Use the drop-down menu to select a clinic.

Select a Clinic -Select a Clinic- Mountain View Clinic Valley View Clinic
Mountain View Clinic

The Schedule a Patient screen appears for your clinic.

3. Complete the required fields and click Schedule Patient.

Schedule a Patient			
Select a Clinic			
Mountain View Clinic	~		
Clinics using the EMR workflow can	not be selected.		
Search RetinaVue Network	for a previous patient	_	
	Search		
●MRN ○First Name ○I	_ast Name		
Patient Information			
T dione information		Create Demo Patient	
MRN *	First Name *	Last Name *	
12345678	John	Anderson	
Birth Date *	Gender *	Referring Provider *	
1962/05/12	Male	Ricardo, Rebecca, RN	
Diabetes Type *	Diabetes Diagnosis Year	Diabetes Management	
Type 2	1981 🗸	DIET CONTROL	
Comments			
		~	
		\sim	
Back		Schedule Patient	
Duck		Schedule Fallen	



CAUTION When manually entering patient information, do not use the same patient identifier for multiple patients. This may result in inaccurate data association.

- Note Required fields contain a red asterisk. Required fields include: MRN, First and Last Name, Date of Birth, Gender, Referring Provider, Diabetes Type. Optional fields include: Diabetes Diagnosed and Diabetes Management.
- **Note** To search for a patient who has had images captured in the past, select MRN, First Name, or Last Name and enter either the patient's MRN, or their First Name, or their Last Name in the Search field and click **Search**. Any previous patients of your clinic (within the RetinaVue Network) meeting any of the search parameters appear on the *Patients Search* screen.
- 4. Ensure that the RetinaVue 100 Imager camera is powered on and connected to a secure Wi-Fi network. Touch **Patients**. The *Patients screen* appears.

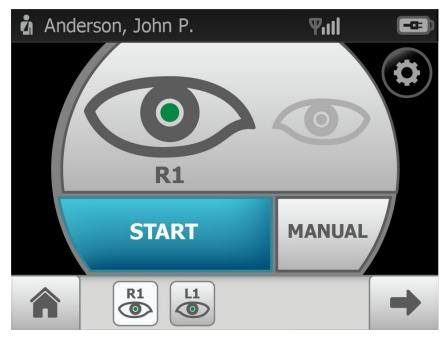
Mountain View	۳.II	-
Anderson, John P.	05/12/1962	>
Armand, Lanre	10/24/1973	>
Bowman, Hedley	07/22/1954	>
Hardwick, Joanie Neil	09/15/1987	>
Willis, Andreina Milan 01/19/2002		>
Deliante	0	
Patients		

Ω

- (Optional) Touch to search for a patient. Select a patient. Touch on a patient's name to select that patient. The *Patients* screen appears.
- (Optional) Touch to refresh the patient list from the RetinaVue Network Customer Portal Scheduled Patients list.
- 5. Confirm the patient demographics and touch **More** to view the second *Patient summary* screen with additional Referring Physician and Diabetes type required fields.

Mountain View	Ψııl	
Last name	Anderson	
First name	John	
Middle initial	Р	
DOB/Gender	05/12/1962	F 🔘 M
Patient ID	123456789	
New Patie	nt	More
	ም።በ	
Referring *		
Diabetes type *		

6. Touch **OK** to start a new exam. The *Pre-acquisition* screen appears.



7. Refer to the section *Perform an eye exam using the Auto exam mode* for instructions on performing exams and acquiring images.

View Scheduled Patients on the RetinaVue Network Customer Portal (wireless only)

Welcome to the RetinaVue Customer Portal

1. Select **View Scheduled Patients (wireless only)** from the RetinaVue Network Customer Portal *Welcome screen* and then click **Next**.

○ Schedule a Patient (wireless only)	
• View Scheduled Patients (wireless only)	
OView New Diagnostic Reports	
○ Search Diagnostic Reports	
OView Statistics	
O Manage Devices (wireless only)	
O Manage Clinics	
O Edit Company Information	

The View Scheduled Patients screen appears.

2. Use the drop-down menu to select a clinic and then view scheduled patients.

Iountain View Clinic	~	Schedule Patient	New Repo	rts
Clinics using the EMR workflow cannot be se	elected.			
Patient Name	MRN	Birth Date	Status	
Demo Patient	DEMO666788773195	12/25/1973	Scheduled	X
Demo Patient	DEMO662361611883	12/25/1973	Submitted	
Jim Smith	132459275	9/20/2000	Scheduled	X
Casper Winepupper	12345678	3/1/1964	Scheduled	X
Wendy Cupplete	123457890	9/17/1970	Scheduled	X
John Anderson	122345678	5/12/1962	Scheduled	X

Note

Scheduled patients appear as *Scheduled* in the Status column. If the patient's exam has been completed the patient record appears as *Submitted* until the patient's report is returned.

Schedule a Demo patient from the RetinaVue Network Customer Portal without submitting an exam for over-read (wireless only)

1. Select **Schedule a Patient (wireless only)** from the RetinaVue Network Customer Portal *Welcome* screen and then click **Next**.

Welcome to the RetinaVue Customer Portal

View Scheduled Patients (wireless only)	
O View New Diagnostic Reports	
○ Search Diagnostic Reports	
○ View Statistics	
O Manage Devices (wireless only)	
O Manage Clinics	
○ Edit Company Information	

2. Use the drop-down menu to select a clinic.

Schedule a Patient	
Select a Clinic	
Select a Clinic Mountain View Clinic Valley View Clinic	
Back	

The Schedule a Patient screen appears for your clinic.

3. Click **Create Demo Patient**, complete all required fields, and then click **Schedule Patient**.

Schedule a Patient		
Select a Clinic		
Mountain View Clinic	\checkmark	
Clinics using the EMR workflow ca	annot be selected.	
Search RetinaVue Netwo	rk for a previous patient	
●MRN ○First Name ○	Last Name	
Patient Information	First Name *	Create Demo Patient
DEMO39461525422	Demo	Patient
DEM039461525422	Demo	Patient
Birth Date *	Gender *	Referring Provider *
1973/12/25	Male	Rosenthal, Sal, MD, PhD 🔽
Diabetes Type *	Diabetes Diagnosis Year	Diabetes Management
Туре 2	-Select Diagnosis Year-	-Select Management-
Comments		
		^
		~
Back		Schedule Patient

4. The *View Scheduled Patients* screen appears.

Mountain View Clinic	~	Schedule Patient	New Reports	
- Clinics using the EMR workflow cannot be s	elected.			
Patient Name	MRN	Birth Date	Status	
Demo Patient	DEMO666788773195	12/25/1973	Scheduled	>
Demo Patient	DEMO662361611883	12/25/1973	Submitted	
Jim Smith	132459275	9/20/2000	Scheduled)
Casper Winepupper	12345678	3/1/1964	Scheduled)
Wendy Cupplete	123457890	9/17/1970	Scheduled)
John Anderson	122345678	5/12/1962	Scheduled	>

5. Ensure that the RetinaVue Imager camera is powered on and connected to a secure Wi-Fi network. Touch **Patients**. The *Patients* screen appears.

	ዋ።በ	
Patient, Demo	12/25/1973	>
Armand, Lanre	10/24/1973	>
Willis, Andreina Milan	01/19/2002	>
Hardwick, Joanie Neil	09/15/1987	>
Bowman, Hedley	07/22/1954	>
Patients	5 2	+

- 6. Touch on **Patient, Demo** to select the Demo Patient. The *Patient Summary* screen appears.
- 7. Confirm the demo patient demographics and touch **More** to view the second *Patient summary* screen with additional Referring Physician and Diabetes type required fields.
- 8. Touch **OK** to start a new exam to practice with a demo patient without submitting the exam for over-read on the RetinaVue Network Customer Portal.
- 9. Refer to the section *Perform an eye exam using the Auto exam mode* for instructions on performing exams and acquiring images.

Create a new patient on the RetinaVue 100 Imager camera (wireless and USB)

1. From the *Home screen*, touch **Patients**. The *Patients screen* appears. (**Wireless workflow images shown**)

More

2.

Mountain View			Ψı ı l	-=	
Anderson, John	Ρ.	05/12	/1962	>	
Armand, Lanre		10/24	/1973	>	
Bowman, Hedle	ey	07/22	/1954	>	
Hardwick, Joan	ie Neil	09/15	/1987	>	
Willis, Andreina	Milan	01/19	/2002	>	
Patients		ρ	+ ċ 1	3	
(Optional for wireless) Touc (Optional for wireless) Touc Network Customer Portal S Touch	ch CD to Scheduled Pa	refresh th atients list		t from the F	
noted with a red asterisk. Mountain View			ዋ።በ		
Last name	Anderso	on			
First name	John				
Middle initial	Р				
DOB/Gender	05/12/	1962	F	M	
Patient ID	123456	789			

New Patient

1/2

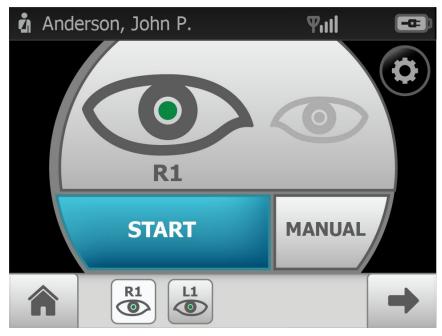


CAUTION When manually entering patient information, do not use the same patient identifier for multiple patients. This may result in inaccurate data association.

- 3. Touch within the Patient's Last name, First name, or Middle initial entry box to launch the on-screen keyboard.
- 4. Enter the patient's last name and first name. Touch **OK**. (Middle initial is optional.)
- 5. Enter the patient's Date of Birth. (Touch within the DOB/Gender field to launch the on-screen keyboard and to enter the patient's Date of Birth.) Touch **OK**.
- 6. Enter the patient's gender using the radio button to select male or female.
- 7. Enter the patient's ID. Touch OK.
- 8. (Wireless only) Touch **More** to view the second *New Patient* screen with additional Referring Physician and Diabetes type required fields.

	ዋ _{יי} ון	
Referring	Murphy MD, Ryan	
Diabetes type	п	
Patient su	mmary	
		ОК

9. Once all the required fields are complete, touch **OK** to open a new exam. The *Preacquisition* screen appears.



10. Refer to the section *Perform an eye exam using the Auto exam mode* for instructions on performing exams and acquiring images.

Select a patient from the patient list (wireless and USB)

1. From from the *Home screen*, touch **Patients**. The *Patients screen* appears. (Wireless workflow images shown)

Mountain View	Ψ ով	
Anderson, John P.	05/12/1962	>
Armand, Lanre	10/24/1973	>
Bowman, Hedley	07/22/1954	>
Hardwick, Joanie Neil	09/15/1987	>
Willis, Andreina Milan	01/19/2002	>
Patients		(5
n		CK

2. Touch the Patient's name to view a summary of the patient information on the *Patient Summary screen*.

Mountain View	ዋ።በ	-8
Last name	Anderson	
First name	John	
Middle initial	Р	
DOB/Gender	05/12/1962 📖 🔘 M	() F
Patient ID	123456789	
Patient su	mmary	More
	_	
	ምብ	-
Referring	۳٫۱۱ Murphy MD, Ryan	
Referring Diabetes type		
_	Murphy MD, Ryan	
	Murphy MD, Ryan	
	Murphy MD, Ryan	

- 3. Confirm the patient demographics and touch **More** (wireless only) to view the second *Patient summary* screen with additional Referring Physician and Diabetes type required fields.
- 4. Touch **OK** to start a new exam. The *Pre-acquisition* screen appears.



5. Refer to the section *Perform an eye exam using the Auto exam mode* for instructions on performing exams and acquiring images.

Review patient tests (USB workflow)

Anderson, John	05/12/1962	>
Bowman, Hedley	07/22/1954	>
Hardwick, Joanie Neil	09/15/1987	>
Review		

1. From the *Home screen*, touch **Review**. The patient's *Review screen* appears.

- 2. Touch on a patient's information to review the patient demographics and to view images associated with a patient.
- 3. Any images which have not been sent for overread appear on the *Exam summary screen*.

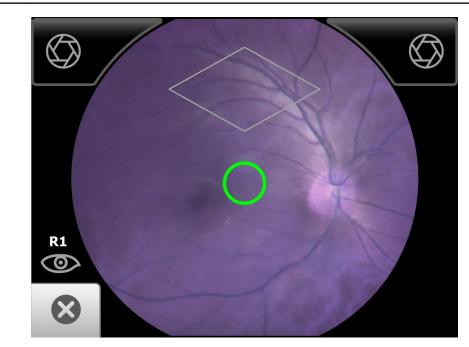
Ande	rson, John P	123456789	
R1	(90)	L1	(96)
f Exa	am summary		
4. After the review	is complete, touch	(Back) to return to the	e Review scree
then touch	, (Home) to return to the	Home screen.	

About image quality scores

Good quality green	If the image is of good quality, it is very likely to be read by a specialist. (Scores of $40 +$)
Acceptable quality yellow	If the image is of good enough quality, it is likely to be read by a specialist. (Range of 20 — 39)
Unacceptable quality red	If the image is lacking in quality, it is highly unlikely that a specialist will be able to read it. (Range of $0 - 19$)

Auto Mode

About the Auto and Manual Exam modes

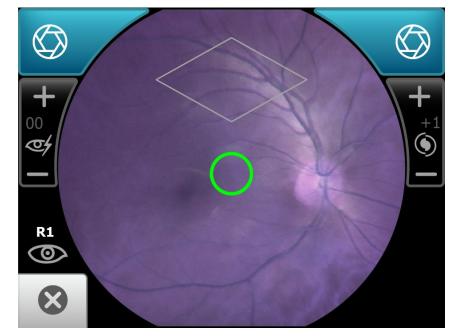


Auto Mode is the default image capture mode. Available automatic features include:

- Image capture
- Focus
- Flash brightness
- Sequential image capture order of the right and left eye
- Navigation to the image *Inspection screen*

In addition to the automatic features, manual capture, manual focus adjustment, and manual flash brightness adjustment are also available. (Manual focus adjustment and flash brightness are accessed from the *Capture settings screen*.)





Manual mode contains advanced image capture options.

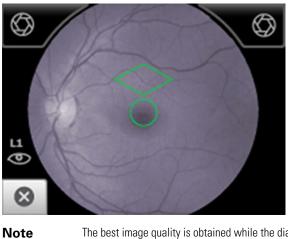
Note A manual touch of the capture button is required to obtain an image.

Available manual features include:

- Focus adjustment (values range from -1 to +1)
- Flash brightness adjustment (values range from -2 to +2)
- Sequential image capture order of the right and left eye
- Image capture

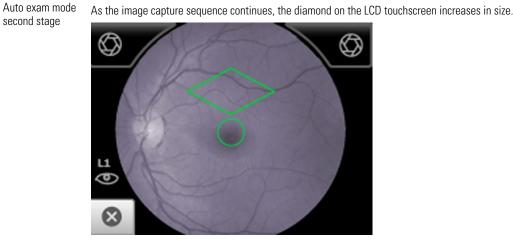
Adaptive software in the Auto exam mode for software 6.10.02 and higher

Auto exam mode first stage Once the view is in-fundus, the adaptive software will enlarge the on-screen diamond at specific time intervals.



The best image quality is obtained while the diamond is at the beginning smallest size.

Note The diamond will reset to its smallest size each time the view moves out of the fundus.



Perform an eye exam using the Auto exam mode

Auto exam mode is the default image capture mode.

Available automatic features include:

- Image capture
- Focus adjustment
- Flash brightness adjustment
- Sequential image capture order of the right and left eye
- Navigation to the image Inspection screen
 - In addition to automatic image capture, manual capture is also available.
- **Note** To ensure that the patient's pupils sufficiently dilate to at least 3.5 mm diameter, adjust the room lighting to the lowest possible level. If necessary, have the patient sit in a dark room for 5 minutes to dilate their pupils.
- **Note** While the RetinaVue 100 Imager can be used on patients with cataracts and other eye opacities, the use of the RetinaVue 100 Imager may result in a lower quality image due to the increased reflection of the flash off the patient's intraocular lens.
- Ensure that the SD card is installed into the RetinaVue 100 Imager.
- Ask your patient to remove their glasses, contacts can remain in place.
- Ensure that the patient sits on the edge of an exam table and stand in front of the patient to take the image.



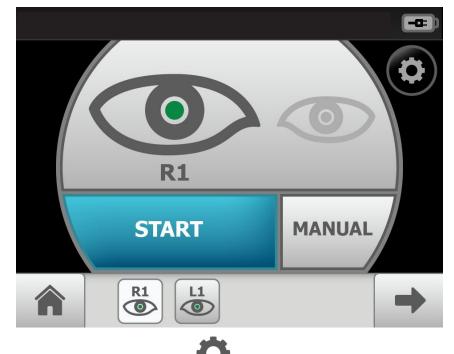
Alternatively, ask the patient to sit in a chair and sit directly across from the patient with your legs together on the same side as the examined eye.



• Ask the patient to sit up straight and hold their head in a stationary position during the entire procedure.

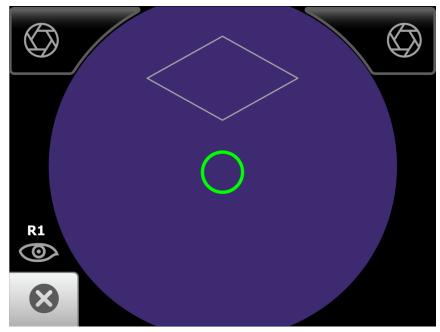
- Ensure that the patient is sitting in a position that allows for a straight and level approach of the RetinaVue 100 Imager into the patient's eyes. A stable approach minimizes the loss of the view of the eye and repeated image capture attempts.
- Keep the RetinaVue 100 Imager lens the same height as the patient's examined eye.
- Approach the patient from directly in front of the examined eye.
- Make slight, micro adjustments with your guide hand to fine tune the position of the RetinaVue 100 Imager. Do not use your hand on the LCD side to make minor adjustments.
- **Note** For additional information about techniques to capture the highest quality image, see the *Technique guide* and the *Training video* that came with the RetinaVue 100 Imager.
- 1. Press the power button C
 - Note To conserve power, the RetinaVue 100 Imager enters Sleep mode if it remains idle for approximately 2 minutes. Touch the LCD screen, press the power button, or press the Home button to wake up the RetinaVue 100 Imager from Sleep mode.
 - **Note** After 10 minutes of inactivity in Sleep mode, the RetinaVue 100 Imager powers down. Press the power button to activate the RetinaVue 100 Imager.
- 2. From the Home screen, touch **Exam**.

The Preacquisition screen appears.



3. (Optional), If necessary, touch (Settings) to adjust the illumination, or the focus. Touch the up or down arrows in the *Advanced image capture settings* and touch **OK**.

4. Touch **Start** to enter the *Image acquisition mode* and begin the first exam of the patient's right eye (R1).



The Exam acquisition screen appears.

5. Hold the patient end of the RetinaVue 100 Imager two to three inches directly in front of the patient's examined eye. Continue forward to compress the eye cup against the examined eye.



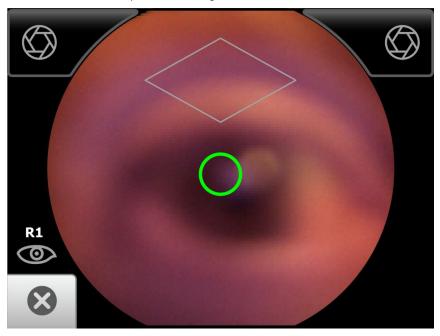
WARNING Clean and disinfect the eye cup after each patient to avoid the risk of cross-contamination.



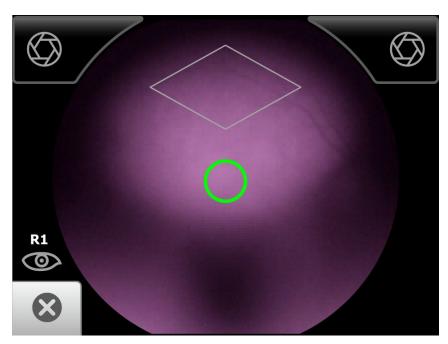
- 6. Direct the patient to focus on the green fixation lights inside the barrel of the RetinaVue 100 Imager.
 - **Note** Instruct the patient to cover, but not close, their unexamined eye. This will help the patient to focus on the green fixation lights.



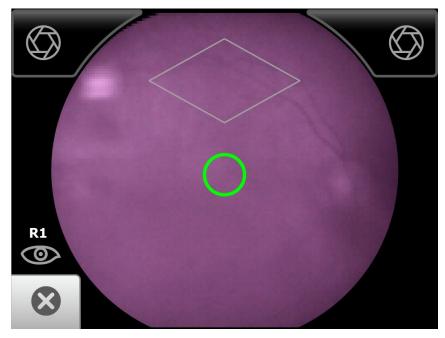
7. Look for a white circular reflection at the top of the eye's image on the LCD touchscreen. This is your initial target.



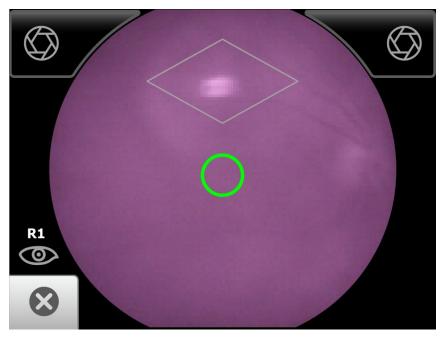
8. Guide the green circle on the RetinaVue 100 Imager LCD touchscreen towards the initial target by slowly moving the RetinaVue 100 Imager towards the eye.



- 9. Once the reflection has filled the screen, push slightly forward until a "bubble" appears.
- 10. Keep the RetinaVue 100 Imager in line. Slightly adjust the RetinaVue 100 Imager away from any shadows that appear.
- 11. Move the patient end of the RetinaVue 100 Imager toward the bubble.

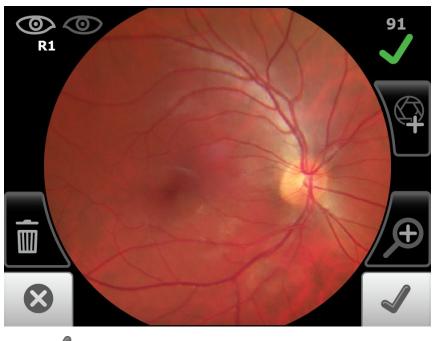


12. Align the bubble inside the diamond icon.

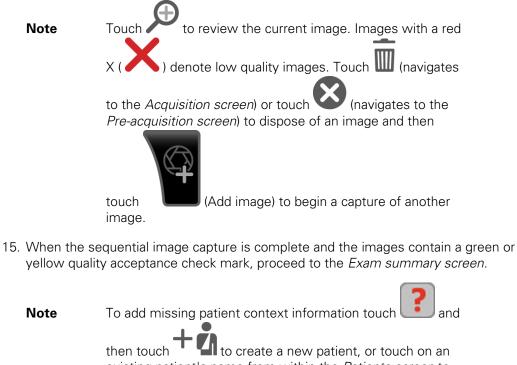


13. An audible tone alerts you that the image has been captured.

The acquired image appears on the LCD touchscreen for review in about five seconds.



- 14. Touch ✓ (Accept) to begin the second exam of the patient's left eye (L1) and wait at least 1 minute before repeating the steps until the second image is automatically captured.
 - (Optional) If the 2-image, Macula +Optic Disc-center exam setup is selected in Advanced settings, wait at least 1 minute before repeating the steps until all the images are automatically captured (R1, L1, R2, L2 and up to 4 additional images).



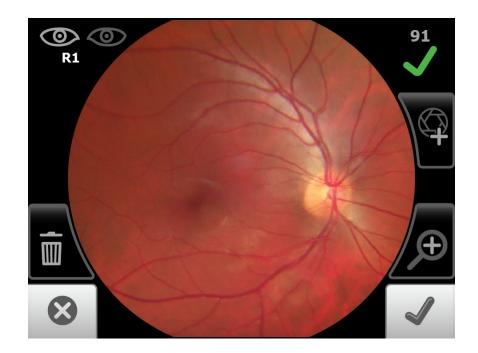
existing patient's name from within the *Patients screen* to select that patient. In the USB workflow, touch **Save** to save the exam images. In the wireless workflow, touch **Submit** to send the exam images to the RetinaVue Network Customer Portal.

Perform a manual image capture while in Auto exam mode

1. From the Pre-acquisition screen, touch Start.



An audible tone alerts you that the image has been captured. The acquired image appears on the LCD touchscreen for review in about five seconds.



Skip an image capture while in Auto exam mode

- -at **R**1 **START** MANUAL **R1** L1 **R2** L2 \bigcirc 0 0 L1 **R2** L2 \bigcirc \bigcirc \bigcirc 2. Touch (Image Order) to skip to (Next) or touch , or or the next image in the sequence.
- 1. From the Home screen, touch **Exam**.

The Pre-acquisition screen appears.

- 3. Touch **Start** to enter *Image acquisition mode* and begin the exam of the patient's eye using the next image in the sequence. The *Exam acquisition screen* appears.

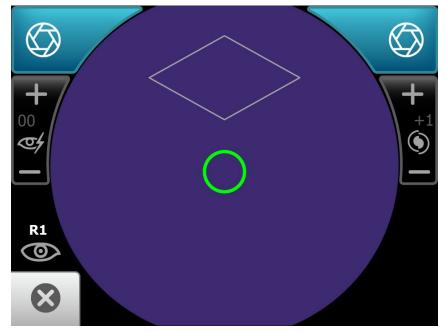
Perform a manual image capture while in Manual exam mode

- 1. From the Home screen, touch **Exam**.
 - The Pre-acquisition screen appears.



2. Touch **MANUAL** to enter *Image acquisition mode* and begin the exam of the patient's eye.

The Exam acquisition screen appears.



focus.



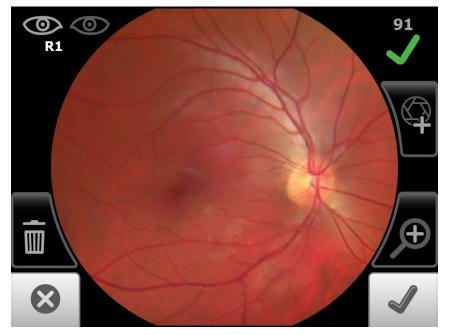
3. (Optional), If necessary, touch 📕 to adjust illumination, or touch



to adjust the

- 4. Hold the patient end of the RetinaVue 100 Imager two to three inches directly in front of the patient's examined eye. Continue forward to compress the eye cup against the examined eye.
- 5. Direct the patient to focus on the green fixation lights inside the barrel of the RetinaVue 100 Imager.
- 6. Look for a white circular reflection at the top of the eye's image on the LCD touchscreen. This is your initial target.
- 7. Guide the green circle on the RetinaVue 100 Imager LCD touchscreen towards the initial target by slowly moving the RetinaVue 100 Imager towards the eye.
- 8. Once the reflection has filled the screen, push slightly forward until a "bubble" appears.
- 9. Move the patient end of the RetinaVue 100 Imager toward the bubble.
- 10. Align the bubble inside the diamond icon.
- 11. Touch or (image capture) to manually capture an image.

An audible tone alerts you that the image has been captured. The acquired image appears on the LCD touchscreen for review in about five seconds.



Troubleshooting

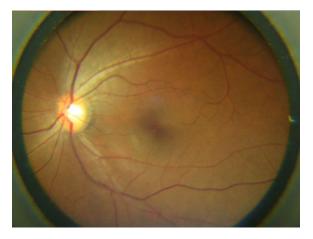


CAUTION A defective device should not be used. A device with parts which may be broken or missing, visibly worn, distorted, or contaminated should be replaced immediately.

To correct an error, follow these instructions or contact Welch Allyn Technical Support: <u>www.welchallyn.com/service</u>.

Troubleshooting image quality

Good quality image



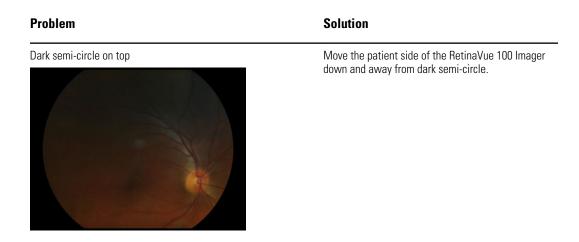
Problem

Solution

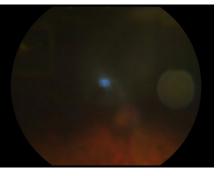
Partial blink



Ask the patient to keep his or her eye open.



Dirty lens



Error messages

Error message/problem	Solution
There is no SD card inserted. Please insert an SD card to continue.	Insert SD card.
SD card access error	Check the write-protection switch on the SD card and ensure that it is in the forward position. Reinsert SD card to ensure the card is seated correctly.
The space left in the SD card is not enough. Please replace the SD card.	Replace the SD card with a formatted SD card.
Update file extraction failed. Power off device and restart.	Check the write-protection switch on the SD card and ensure that it is in the forward position.
	Reinsert SD card to ensure the card is seated correctly.
	If the SD card does not have sufficient space, remove all files (except the update image) from the SD card. Perform the update again.

Clean the lens with an appropriate cleaning cloth.

Error message/problem	Solution	
Failed saving files to the SD card.	and ensure that i	protection switch on the SD card it is in the forward position. replace the SD card and
Camera is docked. Remove camera from docking station to access camera functions.	Remove the cam	era from the docking station.
Place camera in charging dock with RetinaVue Network application running on the connected computer.		tinaVue Imager charging dock to the etinaVue Network application.
The battery is running low. Please recharge.	the low battery e camera into the o battery. To reduce th battery charg USB cable is	y charge level is below 25 percent, error message appears. Place the docking station to charge the ne likelihood of a low ging state, ensure that the s plugged into a "Always rt on the computer.
	If the low battery message continues to display after the camera is docked in the docking station for several hours and while it is plugged into a USB port of your computer, plug the USB cable into an "Always On" USB port on the computer. (Only "Always On" USB ports continue to charge the camera when the computer enters sleep mode or power-saving mode.)	
	Note	See you computer manufacturer's user documentation for instructions on changing the power management options and for identifying the "Always On" USB port.
The battery level is too low to acquire any image. Please recharge now.	and the battery i	con blinks, the low battery error s. Place the camera into the docking
Error connecting to the network.	Confirm that the network signal strength is sufficient. Re-enter the network name, username and password.	
Error connecting to the network using the supplied credentials.	Re-enter the network password.	work name, username and

Problem	Solution
Battery is not installed. Camera will not charge. The power indicator LED light on the camera blinks between green and amber when placed in the docking station.	Install the battery and check to ensure that the polarity on the battery matches the + and - polarity on the device.
Battery is installed with the polarity reversed. Camera will not charge. The power indicator LED light on the camera blinks between green and amber when placed in the docking station.	Re-install the battery and check to ensure that the polarity on the battery matches the + and - polarity on the device. Set the camera into the docking station and wait for the power indicator LED light to turn amber indicating that the device is charging.
The power indicator light does not turn on when the camera is set into the docking station. Charging is impacted if the pins are not properly touching.	Ensure that the contact pins of the camera are touching the contact pins of the docking station charger. If necessary, reseat the camera into the docking station.
The Windows [®] operating system may display the <i>Scan and fix</i> or <i>Continue without scanning</i> message once the camera is set in the cradle or when the USB cable is removed from the laptop or PC. Microsoft Windows Do you want to scan and fix Removable Disk (F:)? There might be a problem with some files on this device or disc. This can happen if you remove the device or disc before all files have been written to it.	Select <i>Scan and fix</i> if this Windows message appears in situations when the camera is connected to a laptop or PC by the USB cable.
 Scan and fix (recommended) This will prevent future problems when copying files to this device or disc. Continue without scanning 	

The Windows[®] operating system may display the Autoplay notification popup dialogue box each time the camera is placed into the docking station when the USB cable is connected to the laptop or PC.



By default, the AutoPlay notification is displayed when a USB storage device is connected to the laptop or PC. To disable this notification, select **Control Panel > AutoPlay** from the Windows[®] Start menu. Uncheck the Use AutoPlay for all media and devices checkbox. Click **Save**.



Wireless connectivity

Problem Solution Cannot connect to the network. Ensure that the signal strength is sufficient. The signal strength appears in the top right corner of the device status bar.



Wireless signal strength

- Best (4 bars)
- Good (3 bars)
- Fair (2 bars)
- Weak (1 bar)
- No signal (no bars)
- No connection (X)

Ensure that Wi-Fi is connected. Touch **Settings**.

Touch Wi-Fi.

Ensure that a network name appears. If no name appears, then select a network name again, enter a Username and Password and touch **OK**.

	Ψull	
Wi-Fi On/Off	OFF	ON
Wi-Fi	NetworkName	>
Clinic / States		>
Volume		>
Time		>
Data		•
Settings		

Ensure that IP address is populated and shows a valid IP address other than 00:00:00:00:00:00.

Touch Settings.

Touch **Network Information**. The *Network Information* screen appears.

Wi-Fi MAC: A0:0A:BF1A:63:D7

AP MAC: C0:F8:DA:25:F3:6D

Cannot connect to the RetinaVue Network Server. Message: *Error connecting to the network using*

the supplied credentials.

Other and enter the network name, followed by username and password.

Wireless connectivity (Continued) Problem	Solution
	Level: 56% Noise 0 L.Q. 100
	IP Adr: 194.168.0.20
	Netmask: 266.266.266
	Broadcast: 194.168.0.255
	Ensure that your network meets the supported credentials type.
	Check with your network administer and ensure the network you are attempting to connect with is a Wi-Fi hot spot or has one of the following security types:
	EAP-PSK - pre-shared key using a passphrase
	EAP-PEAP - enterprise PEAP using a username and password
Clinic network does not appear in the Wi-Fi list.	There is no support for open/no security SSIDS or for certificate-based security types like EAP-TLS
	Manually enter the network name.
	Touch Settings .
	Touch Wi-Fi .
	Scroll to the bottom of the list. Touch

Wireless	connectivity	(Continued)
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Problem	Solution	
		φ 📼
	Select a Wi-Fi connection	
	Mountain View	∃ ıll ›
	bbWiFi	🗄 III >
	ccWiFi	
	ddWiFi	
	Othor	
	Settings Wi-Fi	53
		φ 📼
	Enter the username for "othe	er"
	Username	
	Password	
	Remember this connetion	ı
	4	
	-	ок
RetinaVue Imager camera does not connect to the network.	Enure that the correc Password are entered Touch Settings .	
	Touch Wi-Fi .	
	Select a network name enter your Username and check the "Reme connection" checkboy reboot the camera, it the network automation	and Password mber this c. Every time yo will connect to
	Enter other network infor Network Name	Ψ mation
	Remember this conne	tion
		o

Patient List is empty.

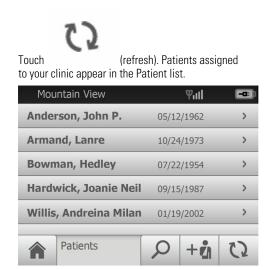
Follow all steps for connecting to RetinaVue Network Server.

Wireless connectivity (Continued)

Problem

Solution

Touch Patients.



Follow all steps for connecting to RetinaVue Network Server.

Touch Review.

Any exams appearing in this list, have not been sent to the RetinaVue Network Server.

Check your network connection. If your saved exam does not appear in the Review list, then it was successfully submitted to the RetinaVue Network Server. Check the "View Scheduled Patients" area on the RetinaVue Network Customer Portal. Select your clinic name from the dropdown menu. Find your patient and check the Status column. A "Submitted" status confirms that the exam was successfully received by the RetinaVue Network Server.

View Scheduled Patients

Patient Name	MRN	Birth Date	Status	
Carly Kesley	1234567890	1/3/1945	Scheduled	
Demo Patient	DEMO662361611883	12/25/1973	Submitted	
Carly Kesley	1234567890	1/3/1945	Submitted	
Jim Smith	132459275	9/20/2000	Submitted	
Casper Winepupper	12345678	3/1/1964	Submitted	
Wendy Cupplete	123457890	9/17/1970	Submitted	
John Anderson	122345678	5/12/1962	Submitted	

Exam was not sent to the RetinaVue Network Server.

Wireless connectivity (Continued)

Problem	Solution
	Ensure that you have a patient selected for the exam.
	Ensure that you have the minimum number of exam images or have selected the override button to send fewer images than are required for the exam.
The Save or Submit button is grayed out.	Manually entered Patients For manually entered patients, ensure that the fields for Gender, Referring physician, and Diabetes type are filled in. If any of these fields are not filled in, leave the exam without saving the images and select from the <i>Home Screen/Patients</i> . Select a Gender using the radio buttons. Edit your patient's Referring Physician or Diabetes Type using the More button on the <i>Patient summary</i> screen. Begin the exam again by selecting OK and save new images for the exam.

Deleting pending exams from the Restore factory defaults menu

to send exams before allowing the reset to factory defaults.

Problem

Solution

In the event that you have an active Wi-Fi connection and unsent exams on the RetinaVue 100 Imager camera, the camera attempts /!\

CAUTION Restoring the factory defaults will result in a loss of any images and patient data stored on the RetinaVue 100 Imager.

If you turn off Wi-Fi prior to attempting to reset factory defaults the camera will recognize that there is no connection available to send exams and will present a message about deleting data, however, the camera will still allow you to perform the factory default.

Touch Settings.

Touch Wi-Fi On/Off.

Touch Advanced settings.

Touch Restore factory defaults.

When the Discard exams in Review and continue? dialog appears, touch Discard.

When the Reset all the settings to

	Problem	Solution		
		<i>defaults?</i> dialog appears, touch Confirm.		
			Touch OK .	
Reset tł	ne codes and data			
	Problem	Solution		
	Locked out of the RetinaVue 100 Imager. Cannot recall the Device access code or the Advanced settings code.	Ń	CAUTION Resetting the codes will result in a loss of any images and patient data stored on the RetinaVue 100 Imager.	
		When the <i>Please enter access code</i> screen appears, press and hold the Home button for approximately 10 seconds. Touch Confirm at the dialogue screen prompt <i>Reset all the settings to defaults?</i>		
		Note	The reset process typically takes a few minutes to cycle through the complete reset. During the reset process, it is normal for the Confirm button to remain active before the reset confirmation dialogue screen appears. Do not remove the SD card or power off the device.	
		Touch OK at the <i>All settings were</i> restored to factory defaults confirmation dialogue screen.		

Maintenance

Clean and disinfect

CAUTION Never submerge the RetinaVue 100 Imager in water or any other liquid.



/!\

CAUTION Never use abrasive cleaning agents, thinners or benzene for cleaning and never immerse the instrument in water or other cleaning liquids.

CAUTION Never insert a sharp object into the device or any open surface on the RetinaVue 100 Imager.

CAUTION Do not use unapproved cleaning or disinfection agents. Use of these agents may cause damage to components.



CAUTION When cleaning the device and the docking station charger, avoid using cloths or solutions that include quaternary ammonium compounds (ammonium chlorides) or glutaraldehyde-based disinfectants.



CAUTION Do not use bleach solutions of any kind when cleaning metal electrical contacts. They will damage the docking station charger and the device.

Note Clean on a routine basis according to your facility's protocols and standards or local regulations.

The RetinaVue 100 Imager has been tested to verify that it is compatible with the approved cleaning agents.

Cleaning the RetinaVue 100 Imager lens

Wipe the surface of the lens with a cleaning cloth or a lens cleaning tissue such as Thorlabs Inc.. Avoid touching the lens except when cleaning is required.

Cleaning the RetinaVue 100 Imager and eye cup

Power off the RetinaVue 100 Imager before cleaning it.

Use a pre-moistened wipe or soft cloth slightly moistened with an approved cleaner to gently clean the RetinaVue 100 Imager and eye cup.

Cleaning the docking station charger

Use a pre-moistened wipe or soft cloth slightly moistened with an approved cleaner to gently clean the docking station charger.

Disinfecting the RetinaVue 100 Imager, eye cup, and docking station charger

Note Disinfect according to your facility's protocols and standards or local regulations.

Use a pre-moistened wipe or soft cloth slightly moistened with an approved disinfectant to disinfect the RetinaVue 100 Imager, eye cup, and docking station charger. Follow the manufacturers recommendations.

Approved cleaning agents

Use only the following approved cleaning agents on the RetinaVue 100 Imager, eye cup, and docking station charger:

- 70 percent isopropyl alcohol
- CaviWipes
- Sani-Cloth[®] Plus
- Super Sani-Cloth[®]

The RetinaVue 100 Imager has been tested to verify these instructions as being capable of preparing the RetinaVue 100 Imager for re-use. You must ensure that cleaning and disinfection as actually performed by your personnel, with your equipment and materials, achieves the desired result. This may require validation and routine monitoring of your actual process.

Specifications

Specifications

View Angle	45 Degree (Typical)		
Diopter	-20 ~ +20D (Typical)		
Dimensions	L 8.8 inches (224.2 mm) × W 4.2 inches (106.7 mm) × H 4.1 inches (105.2 mm)		
Weight	565 Grams ±5%		
Search Fundus Lighting	Infrared LED		
Camera flash light	Natural White Light Emitting Diode (LED)		
Captures	Auto capture and Manual capture		
Camera Resolution	2048 x 1536 pixels		
LCD Monitor	3.5 inch Full Color TFT-LCD		
Image Format	Encrypted JPEG/DICOM		
Interface	Micro USB		
File Transfer	Docking station, micro USB cable to PC running RetinaVue Network (requires additional software)		
File Storage	SD Card, default 8GB. Supports 8GB to 32GB by FAT32 format. Supports 1,200 exams Supports up to 200 patients		
Power Source	Rechargeable Lithium Battery 3.6V / 3350mAh		
External Power	Source: 100~240 VAC, 50/60 Hz		
Power Adapter Spec.	Input Spec. : 100~240 VAC, 50/60 Hz, 0.2A - 0.1A; Output Spec. : 5V DC, 2A		
Charger Station Input Spec.	5V DC, 1.2A		

Operating Time	3 hours at 5 minutes working mode.
	The device enters Sleep mode if idle for 2 minutes.
	Once the device is idle for 2 minutes it enters Sleep mode and if it remains idle in Sleep mode for another 10 minutes the device powers down.
Charging Time	5 hours (through the docking station using a Welch Allyn approved battery)

All specifications are subject to change.

Operating environment

Criterion	Environmental conditions	
Temperature	+ 10 °C to + 35 °C	
Relative humidity	30 % to 90 %	
Atmospheric pressure	800 hPa to 1060 hPa	

Storage environment

Criterion	Environmental conditions	
Temperature	– 10 °C to + 55 °C	
Relative humidity	10 % to 95 %	
Atmospheric pressure	700 hPa to 1060 hPa	

Transportation environment

Criterion	Environmental conditions	
Temperature	– 40 °C to + 70 °C	
Relative humidity	10 % to 95 %	
Atmospheric pressure	500 hPa to 1060 hPa	

Device lifetime

The lifetime of the device is five (5) years. The manufacture date of the device can be found on the device labels.

Welch Allyn will service RetinaVue 100 Imager devices that are within their lifetime. Firmware updates and support may require an annual subscription service after the initial one (1) year warranty period. The expected battery life is at least one (1) year. If the RetinaVue 100 Imager device fails to hold a charge, a new battery can be ordered.

Device radio

WLAN standard	IEEE802.11b/g/n, Wi-Fi compliant
Frequency Range	2.412 to 2.484 GHz
Data Rate	802.11b: 11, 5.5, 2, 1 Mbps DSSS
	802.11g: 54, 48, 36, 24, 18, 12, 9, 6 Mbps OFDM
	802.11n: HT20 MCS0~7, HT40 MCS0~7
Modulation	802.11b: CCK, DQPSK, DBPSK
	802.11g: 64 QAM, 16 QAM, QPSK, BPSK
	802.11n: BPSK, QPSK, 16-QAM, 64-QAM
Host interface	USB 2.0
Encryption	WPA2, WPA2-PSK, WPA2-Enterprise (EAP-PEAP), IEEE 802.11i
Channel availability	2.4GHz:
	(Ch. 1-11) – United States
	(Ch. 1-13) – Europe
	(Ch. 1-14) – Japan
Antenna	PCB-37x6-15U.FL with I-PEX cable, Max Gain: 1.3 dBi
Agency approvals	US : FCC 15.247:2014, KDB 558074 V3, Part 18, ANSI C63.10.2013
	Europe : Annex 3.2 RED in 2.4GHz bands, EN 300 328 V. 2.1.1, EN 301 489-17 V3.2.0, EN 301 489-1 V2.2.0 and EN 62479

The RetinaVue 100 Imager's radio operates on 802.11 networks.

Australia and New Zealand: Australian Communications and Media Authority (ACMA) Radio Compliance Mark (RCM)



New Zealand maintains a Mutual Recognition Agreement (MRA) with Australia.

To ensure compliance with local regulations, be sure the correct country in which the access point is installed is selected. This product can be used with the following restriction(s):

Norway - Does not apply for the geographical area within a radius of 20 km from the center of Ny-Ålesund.

France - Outdoor use is limited to 10 mW EIRP within the band 2454 to 2483.5 MHz.

Note Effective Isotropic Radiated Power (EIRP).

General compliance and standards

The RetinaVue 100 Imager complies with the following standards:

IEC 60601-1:2005/A1:2012 (EN 60601-1:2006/A1:2013)

IEC 60601-1-2 : 2014 (EN 60601-1-2 : 2015)

ISO 15004-1 : 2006

ISO 15004-2 : 2007

ISO 10940 : 2009

ISO 10993-1 : 2009



Directive 2002/96/EC-WEEE: Disposal of noncontaminated electrical and electronic equipment

This product and its accessories must be disposed of according to local laws and regulations. Do not dispose of this product as unsorted municipal waste. Prepare this product for reuse or separate collection as specified by Directive 2002/96/EC of the European Parliament and the Council of the European Union on Waste Electronic and Electrical Equipment (WEEE). If this product is contaminated, this directive does not apply.

For more specific disposal or compliance information, see www.welchallyn.com/weee, or contact Welch Allyn Customer Service at +44 207 365 6780.

General radio compliance

The wireless features of this device must be used in strict accordance with the manufacturer's instructions as described in the user documentation that comes with the product.

Federal Communications Commission (FCC)

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the distance between the equipment and the receiver
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help

The user may find the following booklet prepared by the Federal Communications Commission helpful:

The Interference Handbook

This booklet is available from the U.S. Government Printing Office, Washington, D.C. 20402. Stock No. 004-000-0034504.

Welch Allyn is not responsible for any radio or television interference caused by unauthorized modification of the devices included with this Welch Allyn product, or the substitution or attachment of connecting cables and equipment other than specified by Welch Allyn.

The correction of interference caused by such unauthorized modification, substitution, or attachment will be the responsibility of the user.

The device is designed and tested to meet the applicable limits for radio frequency (RF) exposure established by the Federal Communications Commission (U.S.A.) Specific Absorption Rate; (SAR) refers to the rate at which the body absorbs RF energy.

The maximum allowable SAR limit is 4.0 W/kg, averaged over 10 gram of tissue for the device. The following SAR values were measured during product certification, 1.060 W/kg with a (0mm gap) a value well below the maximum allowable limit of 4.0 W/kg.

Industry Canada (IC) emissions

This device complies with Industry Canada's licence-exempt RSSs.

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage; (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

This Class B digital apparatus complies with Canadian ICES-003, CAN ICES-3(B)/ NMB-3(B).

Cet appareil numérique de classe B est conforme à la norme ICES-003 du Canada, CAN ICES-3 (B) / NMB-3 (B).

RF Radiation Hazard Warning

Using higher gain antennas and types of antennas not certified for use with this product is not allowed. The device shall not be co-located with another transmitter.

Cet avertissement de sécurité est conforme aux limites d'exposition définies par la norme CNR-102 at relative aux fréquences radio.

This radio transmitter (Contains IC ID: 21375-WAWEC100) has been approved by Industry Canada to operate with the antenna types listed in table above with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (Contains IC ID: 21375-WAWEC100) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

European Union

Czech	Medimaging Integrated Solution Inc. (MiiS) tímto prohlašuje, že tento vysílač s nízkým výkonem je v souladu se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/ ES			
Danish	Medimaging Integrated Solution Inc. (MiiS) erklærer herved, at denne lavt strøm transmitter er i overensstemmelse med de væsentlige krav og andre relevante bestemmelser i direktiv 2014/53/EF			
Dutch	Hierbij verklaart Medimaging Integrated Solution Inc. (MiiS) dat deze low power transmitter voldoet aan de essentiële eisen en andere relevante bepalingen van Richtlijn 2014/53/EG			
English	Hereby, Medimaging Integrated Solution Inc. (MiiS) declares that this low power transmitter is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EC.			
Estonian	Käesolevaga Medimaging Integrated Solution Inc. (MiiS) teatab, et see väikese võimsusega saatja on vastavus olulistele nõuetele ja teistele asjakohastele sätetele direktiivi 2014/53/ EÜ			
Finnish	Näin ollen Medimaging Integrated Solution Inc. (MiiS) vakuuttaa, että tämä pienitehoinen läheti direktiivin 2014/53/EY olennaisten vaatimusten ja muiden asiaa koskevien säännösten mukainer			
French	Par conséquent, Medimaging Integrated Solution Inc. (MiiS) déclare que cet émetteur de faible puissance est conforme aux exigences essentielles et autres dispositions pertinentes de la directiv 2014/53/CE			
German	Hiermit erklärt Medimaging Integrated Solution Inc. (MiiS), dass dieser Niedrigleistungssender der grundlegenden Anforderungen und anderen relevanten Bestimmungen der Richtlinie 2014/53/EG entspricht			
Greek	Με αυτό τον τρόπο, η Medimaging Integrated Solution Inc. (MiiS) δηλώνει ότι αυτός ο πομπός χαμηλής ισχύος είναι σύμφωνος με τις βασικές απαιτήσεις και άλλες σχετικές διατάξεις της οδηγίας 2014/53/EK			

Hungarian	A Medimaging Integrated Solution Inc. (MiiS) ezúton kijelenti, hogy ez az alacsony teljesítményű adó megfelel a 2014/53/EK irányelv alapvető követelményeinek és egyéb vonatkozó rendelkezéseinek		
Italian	In questo modo, Medimaging Integrated Solution Inc. (MiiS) dichiara che questo trasmettitore di bassa potenza è conforme ai requisiti essenziali e alle altre pertinenti disposizioni della direttiva 2014/53/CE.		
Latvian	Ar šo, Medimaging Integrated Solution Inc. (MiiS) paziņo, ka šis mazjaudas raidītājs atbilst būtiskajām prasībām un citiem attiecīgiem noteikumiem Direktīvā 2014/53/EK		
Lithuanian	Šiuo dokumentu Medimaging Integrated Solution Inc. (MiiS) deklaruoja, kad šis mažas energijos siųstuvas atitinka esminius reikalavimus ir kitas susijusias nuostatas Direktyva 2014/53/EB		
Malti	Hawnhekk, Medimaging Integrated Solution Inc. (MiiS) jiddikjara li din trasmettitur enerģija baxxa hija konformi mar-rekwiżiti essenzjali u dispożizzjonijiet rilevanti oħra tad-Direttiva 2014/53/KE		
Polish	Niniejszym Medimaging Integrated Solution Inc. (MiiS) oświadcza, że ten nadajnik o małej mocy jest zgodny z zasadniczymi wymaganiami i innymi istotnymi przepisami dyrektywy 2014/53/ WE		
Portuguese	Por este motivo, a Medimaging Integrated Solution Inc. (MiiS) declara que este transmissor de baixa potência está em conformidade com os requisitos essenciais e outras disposições relevantes da Diretiva 2014/53/CE		
Slovak	Medimaging Integrated Solution Inc. (MiiS) týmto vyhlasuje, že tento vysielač s nízkym výkonom j súlade so základnými požiadavkami a ďalšími príslušnými ustanoveniami smernice 2014/53/ES		
Slovene	S tem, Medimaging Integrated Solution Inc. (MiiS) izjavlja, da je ta nizka moč oddajnik v skladu z bistvenimi zahtevami in drugimi ustreznimi določbami Direktive 2014/53/ES		
Spanish	Por este medio, Medimaging Integrated Solution Inc. (MiiS) declara que este transmisor de baja potencia cumple con los requisitos esenciales y otras disposiciones pertinentes de la Directiva 20 ^o 53/EC		
Swedish	Medimaging Integrated Solution Inc. (MiiS) förklarar härigenom att denna låg effekt sändare överensstämmer med de väsentliga kraven och andra relevanta bestämmelser i direktiv 2014/53/E0		

EMC compliance

Special precautions concerning electromagnetic compatibility (EMC) must be taken for all medical electrical equipment. This device complies with IEC 60601-1-2 : 2014 (EN 60601-1-2 : 2015).

- All medical electrical equipment must be installed and put into service in accordance with the EMC information provided in this *Directions for use.*
- Portable and mobile RF communications equipment can affect the behavior of medical electrical equipment.

The 901103 Imager complies with all applicable and required standards for electromagnetic interference.

- It does not normally affect nearby equipment and devices.
- It is not normally affected by nearby equipment and devices.
- However, it is good practice to avoid using the 901103 Imager in extremely close proximity to other equipment.
- It is not safe to operate the 901103 Imager in the presence of high-frequency surgical equipment.

Emissions and immunity information

Electromagnetic emissions

The 901103 is intended for use in the electromagnetic environment specified below. The customer or user of the 901103 should assure that it is used in such an environment.

Emissions test	Compliance	Electromagnetic environment - guidance	
RF emissions CISPR 11	Group 1	The 901103 uses RF energy only for its internal function. Therefore, its RF emissions are very low and are not likely to cause any interference in nearby electronic equipment.	
RF emissions CISPR 11	Class B	The 901103 is suitable for use in all establishments, including domestic establishments and those directly connected to the public low voltage power supply network that supplies buildings used for domestic	
Harmonic emissions IEC 61000-3-2	Class A	purposes. WARNING This equipment/system is intended for use by healthcare professionals only. This	
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Complies	equipment/ system may cause radio interference o may disrupt the operation of nearby equipment ^a . It may be necessary to take mitigation measures, suc as re-orienting or relocating the 901103 or shieldin the location.	

^a The 901103 contains a 5-GHz orthogonal frequency-division multiplexing transmitter or a 2.4-GHz frequency hopping spread-spectrum transmitter for the purpose of wireless communication. The radio is operated according to the requirements of various agencies, including FCC 47 CFR 15.247 and R&TTE Directive (1995/5/EC). The transmitter is excluded from the EMC requirements of 60601-1-2, but should be considered when addressing possible interference issues between this and other devices.

Electromagnetic immunity

The 901103 is intended for use in the electromagnetic environment specified below. The customer or the user of the 901103 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±15 kV air	±8 kV contact ±15 kV air	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%.
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ±1 kV for input/output lines	±2 kV for power supply lines ±1 kV for input/output lines	Mains power quality should be that of a typical commercial or hospital environment.
Surge IEC 61000-4-5	± 1 kV differential mode ± 2 kV common mode	± 1 kV differential mode ± 2 kV common mode	Mains power quality should be that of a typical commercial or hospital environment.
Voltage dips, short interruptions and voltage variations on	100% dip in 0.5 cycle 100% dip in 1 cycles 30% dip in 25 cycles	100% dip in 0.5 cycle 100% dip in 1 cycles 30% dip in 25 cycles	Mains power quality should be that of a typical commercial or hospital environment. If the user of the 901103 requires continued operation during power mains interruptions, it is

Electromagnetic immunity

power supply input lines IEC 61000-4-11	100% interruption in 250 cycles	100% interruption in 250 cycles	recommended that the 901103 be powered from an uninterruptible power supply or a battery.
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Electromagnetic immunity

The 901103 is intended for use in the electromagnetic environment specified below. The customer or the user of the 901103 should assure that it is used in such an environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment - guidance
			Portable and mobile RF communications equipment should be used no closer to any part of the 901103, including cables, than the recommended separation distance calculated from the equation applicable to the frequency of the transmitter.
			Recommended separation distance
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz	3 Vrms	$d=(1.17)\sqrt{P}$
Radiated RF IEC 61000-4-3	3 V/m 80 MHz to 1 GHz	3 V/m	d= (1.17) \sqrt{P} 80 to 800 MHz
			<i>d</i> = (2.33) \sqrt{P} 800 MHz to 2,7 GHz
			where <i>P</i> is the maximum output power rating of the transmitter in watts (W) and <i>d</i> is the recommended separation distance in meters (m). Field strengths from fixed RF transmitters, as determined by an electromagnetic site survey ^a , should be less than the compliance level in each frequency range ^b . Interference may occur in the vicinity of equipment marked with the following symbol:
			(((•)))́

Note1: At 80 MHz and 800 MHz, the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

^aField strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast, and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the 901103 is used exceeds the applicable RF compliance level above, the 901103 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as reorienting or relocating the 901103.

^bOver the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the 901103

The 901103 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or user of the 901103 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the 901103 as recommended below, according to the maximum output power of the communications equipment.

	Separation distance according to frequency of transmitter (m)		
Rated max. output power of transmitter (W)	150 kHz to 80 MHz $d=(1.17)\sqrt{P}$	80 MHz to 800 MHz $d=(1.17)\sqrt{P}$	800 MHz to 2.7 GHz $d= (2.23) \sqrt{P}$
0.01	0.11667	0.11667	0.23333
0.1	0.36894	0.36894	0.73785
1	1.1667	1.1667	2.3333
10	3.6894	3.6894	7.3785
100	11.667	11.667	23.3333

For transmitters rated at a maximum output power not listed above, the recommended separation distance*d* in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where *P* is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

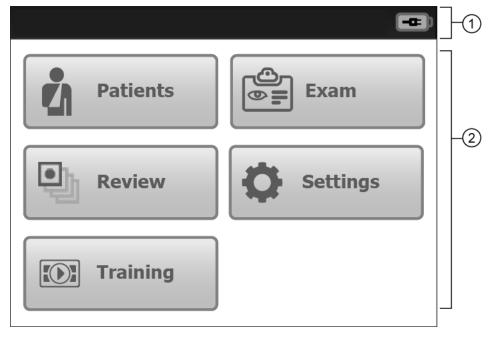
Note 1: At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies.

Note 2: These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects, and people.

Appendix

RetinaVue 100 Imager Home screen

The RetinaVue 100 Imager Home screen includes the following areas:



ltem	Area
1	Device status
2	Content

Device Status Area

The Device Status Area, located at the top of the *Home screen*, displays the Battery condition. Estimated battery capacity is displayed in a charged or discharged status format.

In the Exam Summary and Review screens, the Device Status Area displays:



- Patient Icon and Patient name. The format of the Patient name is last name, first name, and middle initial.
- Connection status. The icons indicate which connection type, if any, is currently active.

lcon	Connection type
Ψ	Wireless signal strength
$\langle \mathfrak{A} \rangle$	Expected connection to the the RetinaVue Network Server is not occuring.
•	USB

• Battery condition. Estimated battery capacity is displayed in a charged or discharged status format.

Content Area

The Content Area includes four workflow selection buttons and a Training button. Touching one of the five buttons navigates to the next screen associated with that workflow or training.

- **Patients:** Presents a list of patients created on the RetinaVue 100 Imager or transferred from the RetinaVue[™] Network (requires additional software).
- Exam: The Exam workflow provides a guided approach to image capture. To
 maintain consistent and complete exam submissions, a prescribed image acquisition
 sequence is used to complete an exam. The Exam workflow also presents controls,
 status, and previews of images. (The Exam Workflow requires additional
 RetinaVue™ Network software to submit images to an overread service.)
- **Review:** Presents images and exams from a list of patients contained on the RetinaVue 100 Imager.
- Settings. Provides controls to view or change the following:
 - Wi-Fi On/Off
 - Wi-Fi
 - Clinic /States
 - Volume
 - ° Time
 - Date
 - Advanced settings:
 - Device access code (USB only)
 - Advanced settings code
 - Format SD
 - Restore factory defaults
 - Exam setup
 - Export log

- About
 - Software version
- Regulatory Information
- Network Information
- **Training:** Provides demonstrations and interactive training exercises on the RetinaVue 100 Imager. Short video clips and interactive training help you practice the three key steps necessary to master the RetinaVue 100 Imager.

Navigation controls in the Training mode

From the *Home screen* touch **Training**. The RetinaVue 100 Imager *Interactive Training Video screen* appears.

Note Navigation controls change with each mode.

Touch anywhere within the RetinaVue 100 Imager touchscreen to display the training navigation controls. The navigation controls appear within the middle of the RetinaVue 100 Imager touchscreen.

	Â		••	
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The navigation controls for the Interactive Training video include:

Step back to beginning: Touch to navigate to the first scene within the training section.

Step back to previous scene: Touch **I** to navigate to the previous scene within the training section.

Home: Displays the RetinaVue 100 Imager workflow selection buttons and navigates to the *Home screen*.

Play: Touch

to resume the training.

Skip forward to next scene: Touch **I** to navigate to the next scene within the training section.

to na

Skip forward to last: Touch to navigate to the last scene within the training section.

Note In addition to the control buttons, touch anywhere within the RetinaVue 100 Imager touchscreen to pause the training or to display the training navigation controls.

Navigation controls in the Exam mode

The Navigation area is located at the bottom of the RetinaVue 100 Imager screen. Navigation controls change with the mode. The navigation controls for Pre-, post-, and acquisition in Exam mode include:

Pre-acquisition

1-image

Macula-centered



2-image

Macula + Optic Disc-centered



Home: Displays the RetinaVue 100 Imager workflow selection buttons and navigates to the *Home screen*.

Next: Navigates to the next image acquisition within a prescribed image acquisition sequence or to the next step in a sequence of steps.

Image acquisition navigation: Navigates to the image acquisition position within the prescribed sequence. Provides a visual representation of the prescribed sequential



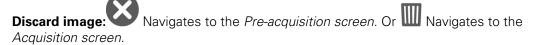


acquisition, including the right eye () and the left eye (Provides a status of acquired images for acceptance or dismissal.

Acquisition

Exit: Navigates to the *Pre-acquisition screen*.

Post-acquisition



Accept image: Navigates to the *Exam summary screen* when the last exam in the sequence has been accepted. Also navigates to *Pre-acquisition screen* if there are more images to be captured.



Navigation controls in the Settings mode

The navigation controls for the Settings mode include the back, home, and advance to next buttons. The primary navigation area is located at the bottom of the RetinaVue 100 Imager screen. While on the *Settings* screen, the > (Advance to next screen) button navigates to the next dialogue. The button is located on the same line as the setting.

Back:

Navigates to a previous dialogue or step.

Home: Displays the RetinaVue 100 Imager workflow selection buttons and navigates to the *Home* screen.

>: (Advance to next screen) Navigates to a next dialogue while on the *Settings* screen.

Navigation controls in the Review mode

The navigation controls for the Review mode include the back, home, advance to next screen, and image quality buttons. The primary navigation area is located at the bottom of the RetinaVue 100 Imager screen. In addition, the > (Advance to next screen) button navigates to an image. The button is located on the same line as the patient's name on the *Review* screen. The image quality button also navigates to an image. The button is located below the patient's name on the *Exam summary* screen.



Navigates to a previous dialogue or step.

Home: Displays the RetinaVue 100 Imager workflow selection buttons and navigates to the *Home screen*.

>: (Advance to next screen) Navigates to an image while on the *Review* screen.

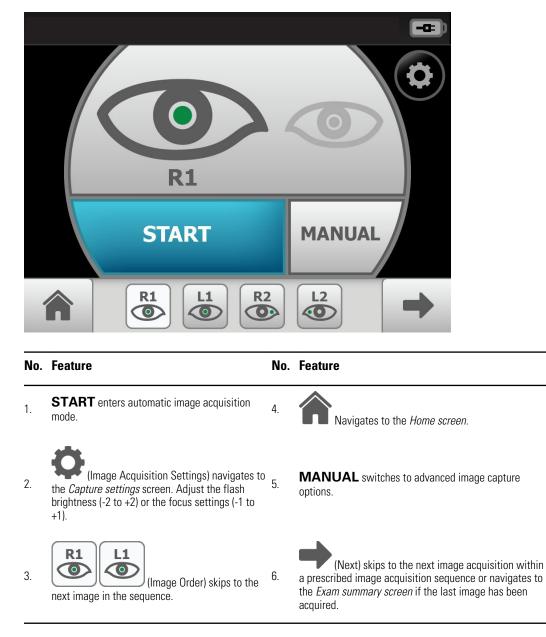
Good quality green: From the *Exam summary* screen, touch the good quality icon to navigate to the image on the *Post-acquisition* screen.

Acceptable quality yellow: From the *Exam summary* screen, touch the acceptable quality icon to navigate to the image on the *Post-acquisition* screen.

Unacceptable quality red: From the *Exam summary* screen, touch the unacceptable quality icon to navigate to the image on the *Post-acquisition* screen.

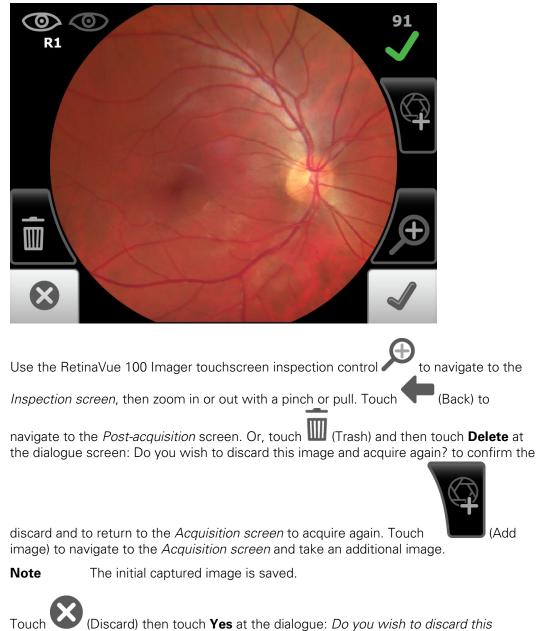
Image Pre-acquisition controls (Auto mode)

From the Home screen touch **Exam**. The Exam Pre-acquisition screen appears.



Controls (Post-acquisition)





image? to discard the image. Alternatively, touch **No** at the dialogue screen to return to the *Post-acquisition* screen to save the initial captured image.

On the *Post-acquisition screen*, touch W (Trash) and then touch **Delete** at the dialogue screen: *Do you wish to discard this image and acquire again?* to confirm the discard and to return to the *Acquisition screen* to acquire again.

Touch 💜 (Accept) to accept the image and to navigate to the next image. Or touch

(Accept) to navigate to the *Exam summary screen* once the last image of the exam is acquired.

Exam summary controls (Post-acquisition and Review modes)

Exam summary from the Post-acquisition screen

From the *Post-acquisition screen*, touch V (Accept) to navigate to the *Exam summary screen*. Each image on the *Exam summary screen* contains a quality score and status. (Wireless workflow images shown)

nde	erson, John F	>		
Ar	nderson, Jo	hn P	1234567	89
R1	R1: add optional	(90)	L1: add op	(96) otional
	Exam summ	nary		Submit

Touch (Good quality green) to view that image. Image accepted, good quality. Quality scores of 40+.

Touch (Acceptable quality yellow) to view that image. Image accepted, quality OK. Quality scores ranging from 20 – 39.



Touch (Unacceptable quality red) to view that image. Image rejected. Quality scores ranging from 0 – 19.

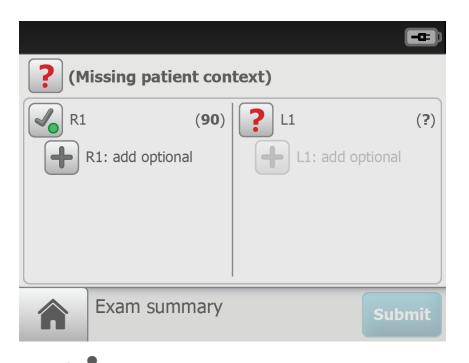


CAUTION Captured images require patient context before the images can be saved.

Note

To add missing patient context information touch





Touch **T U** to create a new patient, or touch on an existing patient's name from within the *Patients screen* to select that patient.

(USB only) Touch **SAVE** to accept all images and to return to the *Home screen*.

(Wireless only) Touch **Submit** to accept and send all images and to return to the *Home screen*.

If an image is missing touch **Override** to access the Submit (or Save) button and to submit or save a single image in the 1-image, Macula-centered Exam setup,



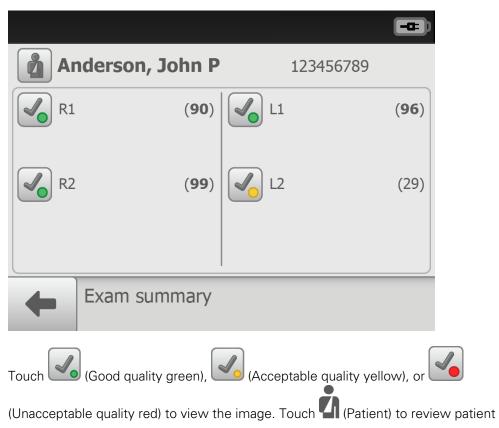
or touch **Override** to submit (or save) multiple images in the 2-image, Macula + Optic Disc-centered Exam setup.



Exam summary from the Review screen

Touch Review.

Touch on a patient's name. The Exam summary screen appears for that patient.



demographics on the *Patient summary* screen. Touch (Back) to return to the *Review screen.* Touch (Home) to return to the *Home screen.*

Power down the RetinaVue 100 Imager

1. Press 😃.



- 2. A dialogue box appears with three options:
 - Power Off
 - Sleep
 - Cancel

Power Off
Sleep
Cancel

3. Touch one of the options.

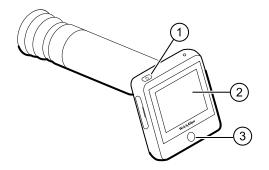
The RetinaVue 100 Imager will power off, go into Sleep mode, or return to the prior screen, depending on the option you choose.

Sleep mode

To conserve power, the RetinaVue 100 Imager enters Sleep mode if approximately 2 minutes have passed since the last screen press.

To bring the RetinaVue 100 Imager out of Sleep mode, use any of these methods:

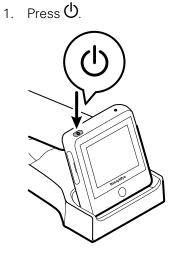
- 1. Touch the power button.
- 2. Touch the LCD touchscreen.
- 3. Press the Home button.



Note

Lifting or moving the RetinaVue 100 Imager also brings the RetinaVue 100 Imager out of Sleep mode.

Enter Sleep mode



- 2. A dialogue box appears with three options:
 - Power Off
 - Sleep
 - Cancel

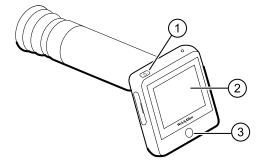
Power Off Sleep Cancel	
	Power Off
Cancel	Sleep
	Cancel

3. Touch Sleep.

The RetinaVue 100 Imager enters Sleep mode.

Exit sleep mode

1. Perform one of these options: (1) Press \bullet , (2) touch the LCD touchscreen, or (3) press the Home button.



Note Lifting or moving the RetinaVue 100 Imager also brings the RetinaVue 100 Imager out of Sleep mode.

2. After performing one of the options, the RetinaVue 100 Imager will awaken from Sleep mode, or return to the prior screen.

Update the RetinaVue 100 Imager software to version 6.XX and above (USB and wireless)

Note

(USB only) Patient list changes will only be made to the RetinaVue 100 Imager after it is undocked from the docking station charger. (Transferring patient list information requires additional RetinaVue Network software.)

Note (USB only) DICOM files will be available to the RetinaVue Network once the RetinaVue 100 Imager is docked.



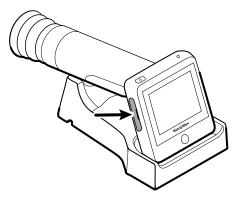
CAUTION Do NOT remove the SD Card or the power source from the device during boot up.

Take note of the current software version:

- 1. Touch Settings.
- 2. Touch **About** to view the software version.

Before you begin, you will need the following :

- A computer with an Internet connection.
- The docking station charger with a USB cable connected to the power source.
- The RetinaVue 100 Imager containing the SD card that you plan to update.
 (Alternatively, you can use a blank, formatted, 8GB to 32GB SD Card to transfer the downloaded software update to the RetinaVue 100 Imager).
- Ensure that any patient data that you want to save is transferred to the RetinaVue Network by docking the RetinaVue 100 Imager into the docking station charger with a USB cable connected to a laptop or PC. (If the RetinaVue Network software is not already open, double-click the desktop icon.)
- 2. Remove the RetinaVue 100 Imager from the docking station charger, touch **Settings** then touch **Advanced settings**.
- 3. Touch Format SD.
- 4. Touch OK.
- 5. Power down the RetinaVue 100 Imager and remove the SD Card.



- 6. Insert the SD Card into an open SD Card reader port on the computer.
- 7. Download the software update from https://www.retinavue.net/RN_CustomerPortal/ and transfer the software update to a computer.
- 8. Transfer the software update from the computer to the SD Card.

- NoteUse a safe eject method when ejecting the SD card to
ensure a complete software transfer to the SD card.
(Options include right-clicking on the Start Menu > Open
Windows Explorer> right-click on SD card> click Eject. Or,
click on the Taskbar> Show hidden icons > clickSafely
Remove Hardware and Eject Media> click Eject SDHC).
If an eject menu is not available with your system settings,
wait until the files have completely copied before manually
ejecting the SD Card.
- 9. Remove the SD Card from the computer.
- 10. Insert the SD Card into the RetinaVue 100 Imager.
- 11. Place the RetinaVue 100 Imager on the docking station charger, connect the docking station charger via a USB cable to the power source, and then power up the RetinaVue 100 Imager.
 - **Note** The update process typically takes a few minutes to cycle through the complete update. During the update process, it is normal to see both a blank screen and an update screen that appear several times before the RetinaVue 100 Imager automatically reboots.
- 12. After the RetinaVue 100 Imager boots up to the *Home* screen, confirm the software update.
 - a. Touch Settings.
 - b. Touch **About** to view the software version.
- 13. Touch OK.

Update the RetinaVue 100 Imager connection settings (USB and wireless) Complete the following steps to update or change USB or wireless connection settings:

- 14. Touch Advanced settings.
- 15. Touch Restore factory defaults.
- 16. Touch **OK** at the prompt: *Reset all the settings to defaults*.
- 17. Touch **OK** at the prompt: All settings were restored to factory defaults.

You are ready to use the updated software. See either topic *First time selection of USB connectivity workflow* or *First time selection of Wi-Fi connectivity workflow* for further information about first time set up of USB or wireless connectivity.

Troubleshooting software updates

Note The RetinaVue 100 Imager boots up normally after a successful software update, however if a software update fails, the RetinaVue 100 Imager displays a failed update error message.

Power loss during software update:

• If a power loss occurs during the software update or if there are hardware issues, the RetinaVue 100 Imager posts a blank screen. Remove the battery, reinstall it, and restart RetinaVue 100 Imager. By performing this power cycle, the RetinaVue 100 Imager reverts to a previous version of software. Repeat the steps to perform the update again.

Corrupted software files:

• If the software update on the SD Card is corrupted, the RetinaVue 100 Imager displays a failed update error message indicating that the RetinaVue 100 Imager is unable to load the software from the SD Card. Remove the SD Card, reformat it on a PC. Repeat the steps to perform the update again.

Update extraction file error

If the RetinaVue 100 Imager displays the failed update error message, *Update file extraction failed. Power off device and restart,* the SD Card does not have sufficient space. Remove all files (except the update image) from the SD Card. Perform the update again.

Viewing or changing the RetinaVue 100 Imager settings

To view or change the settings

Touch **Settings**. Modify the settings as desired.

- Touch WiFi On/Off.
 - Touch (On) or (Off) to turn the wireless radio on or off.
- Touch **WiFi**. The list of available wireless networks in range appears.

Touch > to view or modify the wireless network settings from the list of available

wireless networks in range. Touch **OK** to save any changes. Touch **V** (Back) to return to the *Settings screen*.

- Touch **Clinic / States** . Up to 6 States may be selected for a clinic.
 - Touch **Multi-State**. The switch changes from Off to On.
 - Touch **States**. Touch the box next to the State abbreviation to select it.
 - Touch More. Touch OK.
 - Touch (Back) to return to the Settings screen.
- Touch Volume.

0

Touch (up) or (down) to adjust the device sound volume. Touch (Back) to return to the *Settings screen*.

Touch Time.

Touch (up) or (down) to adjust the hour, minute, Continent, and Location.

Use the radio buttons to select the 24-hour or 12-hour format. Touch (Back) to return to the *Settings screen*.

• Touch Date.

Touch (up) or (down) to adjust the day, month, and year in the DD/MM/YY

format. Touch **V** (Back) to return to the *Settings screen*.

Touch Advanced settings.

Modify the settings as desired

- **Device access code**. Set the Device access numeric code, retype the code to confirm, and touch **OK** to return to the *Advanced settings screen*. (USB only)
- Advanced settings code. Set the Advanced settings numeric code, retype the code to confirm, and touch **OK** to return to the *Advanced settings screen*.
- Format SD. Touch OK to format the SD card to the default settings and touch OK again to return to the *Advanced settings screen*.
- **Restore factory defaults**. Touch **OK** to reset the device to the default settings and touch **OK** to return to the *Advanced settings screen*.
- **Exam setup.** Touch **Exam setup**. Touch 1-image (Macula-centered) to use the one image per eye exam workflow or touch 2-image (Macula and Optic Disc-centered) to

use the two images per eye exam workflow . Touch **(**Back) to return to the *Settings screen*.

• **Export Lg**. The log files are exported to the SD card. Touch **OK** to return to the

Advanced Settings screen. Touch (Back) to return to the Settings screen.

- Touch **About** to view the software version. Touch **OK**.
- **Regulatory Information**. Touch **Regulatory Information** to view Regulatory

Information. Touch **T** (Back) to return to the *Settings screen*.

• Network Information. Touch Network Information to view the wireless radio (Wi-

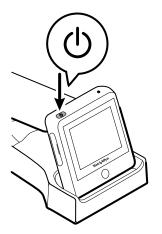
Fi) MAC address, IP address, Netmask address, or Broadcast address. Touch (Back) to return to the *Settings screen*.

Touch (Home) to return to the Home screen.

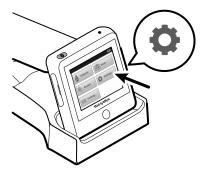
Set the date and time

Before first use, set the date and time:

1. Follow the steps in the *Battery installation and replacement* section to install the battery and then press and hold the power button to turn the device on.

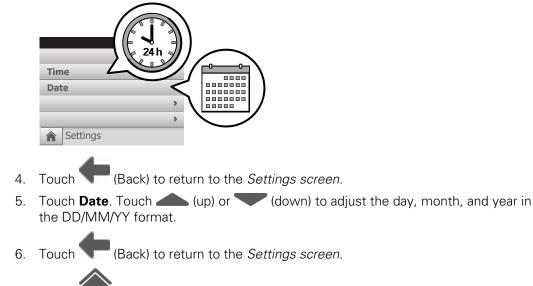


2. Touch Settings on the RetinaVue 100 Imager Home screen.



3. Touch **Time**. Touch (up) or (down) to adjust the hour, minute, Continent, and location.

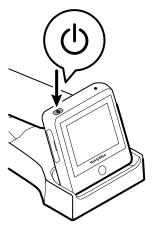
Note The default time appears in the 24-hour format. Use the radio buttons to select the 24-hour or 12-hour format.



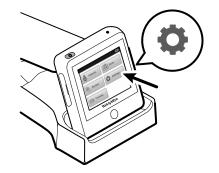
7. Touch (Home) to return to the RetinaVue 100 Imager *Home screen*.

Set the Device access code at the RetinaVue 100 Imager camera (USB only)

- **Note** Setting the Device access code before first use provides additional security features in the RetinaVue 100 Imager to prevent unintended access to patient information by unauthorized individuals.
- **Note** See *First time RetinaVue 100 Imager camera registration at the RetinaVue Network Customer Portal* for instructions on setting the Device access code on the camera from the RetinaVue Network Customer Portal.
- 1. Follow the steps in the *Battery installation and replacement* section to install the battery and then press and hold the power button to turn the device on.



- 2. Remove the RetinaVue 100 Imager from the docking station charger.
- 3. Touch Settings on the RetinaVue 100 Imager Home screen.



- 4. Touch Advanced settings.
- 5. Touch **Device access code** to enter an access code for the RetinaVue 100 Imager.
- 6. Use the touchscreen numeric keypad to enter an access code into the *Access code* field and then retype the same code into *Access code (retype)* field.

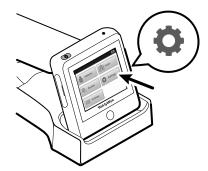
Note The access code password can contain a minimum of 1-digit and a maximum of 18-digits. Characters are only numeric from 0 through 9.

- 7. Touch **OK** to accept the code and touch **OK** again at the confirmation screen to return to the *Advanced settings* screen.
- 8. Touch **T** (Back) to return to the *Settings screen*.
- 9. Touch **I** (Home) to return to the RetinaVue 100 Imager *Home screen*.

Reset the Device access code (USB only)

Note

- See the *Troubleshooting section* if you cannot recall your RetinaVue 100 Imager access code and need to erase the access code.
- 1. Remove the RetinaVue 100 Imager from the docking station charger.
- 2. If you are not already logged in, enter the existing access code for the RetinaVue 100 Imager.
- 3. Touch Settings on the RetinaVue 100 Imager Home screen.

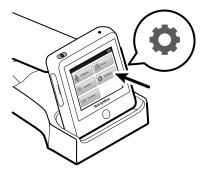


- 4. Touch Advanced settings.
- 5. Touch **Device access code**.
- 6. Touch **Reset** to clear the existing access codes.
- 7. Use the touchscreen numeric keypad to enter an access code into the *Access code* field and then retype the same code into the *Access code (retype)* field.

- **Note** The access code password can contain a minimum of 1-digit and a maximum of 18-digits. Characters are only numeric from 0 through 9.
- **Note** Alternatively, after the code reset, touch (Back), (Back), (Back), and (Home) to return to the RetinaVue 100 Imager *Home screen* without using a Device access code.
- 8. Touch **OK** to accept the code and touch **OK** again at the confirmation screen to return to the *Advanced settings* screen.
- 9. Touch (Back) to return to the *Settings screen*.
- 10. Touch **I** (Home) to return to the RetinaVue 100 Imager *Home screen*.

Reset the Advanced settings code

- **Note** See the *Troubleshooting section* if you cannot recall your RetinaVue 100 Imager Advanced settings code or the Device access code and need to erase the code.
 - 1. Remove the RetinaVue 100 Imager from the docking station charger.
 - 2. If the RetinaVue 100 Imager is set with a Device access code (in addition to the Advanced settings code) and you are not already logged in, enter the existing Device access code.
 - 3. Touch **Settings** on the RetinaVue 100 Imager *Home screen*.



- 4. Touch **Advanced settings**.
- 5. Enter the existing Advanced settings code for the RetinaVue 100 Imager.
- 6. Touch Advanced settings code.
- 7. Touch **Reset** to clear the existing Advanced settings codes.
- 8. Use the touchscreen numeric keypad to enter a code into the *Advanced settings code* field and then retype the same code into the *Advanced settings code* (retype) field.
 - **Note** The Advanced settings code password can contain a minimum of 1-digit and a maximum of 18-digits. Characters are only numeric from 0 through 9.

Alternatively, after the code reset, touch (Back), Note (Back), and (Home) to return to the RetinaVue 100 Imager *Home screen* without using an Advanced setting code. 9. Touch **OK** to accept the code and touch **OK** again at the confirmation screen.

- 10. Touch (Back) to return to the Settings screen.
- (Home) to return to the RetinaVue 100 Imager Home screen. 11. Touch

RetinaVue 100 Imager Accessories

Miscellaneous items

Part number	Description
RV100-B	RetinaVue 100 Imager with lithium-ion battery
RV100-6	RetinaVue 100 Imager with lithium-ion battery and Australian plug
106401	Charging Dock for Welch Allyn RetinaVue 100 Imager; 100-240 V, 50-60 Hz
106405	Battery for Welch Allyn RetinaVue 100 Imager; Lithium-Ion 3.6V / 3350mAh
106406	Replacement USB Cable for Welch Allyn RetinaVue 100 Imager
106507	Power supply wall adapter for Welch Allyn RetinaVue 100 Imager. 100-240 V, 50-60 Hz; IEC Plug Type B (US)
106508	Power supply wall adapter for Welch AllynRetinaVue 100 Imager. 100-240 V, 50-60 Hz; IEC Plug Type C (EU)
106509	Power supply wall adapter for Welch Allyn RetinaVue 100 Imager. 100-240 V, 50-60 Hz; IEC Plug Type G (UK)
106530	Power supply wall adapter for Welch Allyn RetinaVue 100 Imager. 100-240 V, 50-60 Hz; IEC Plug Type I (AU)
106710	RetinaVue 100 Imager Lens cap
106711	RetinaVue 100 Imager Battery cover
236200-2	Welch Allyn RetinaVue 100 Imager replacement screwdriver for battery cover. #1 Phillips Screwdriver w/ Logo
723481	Laptop for RetinaVue Network
724224	RetinaVue 100 Imager camera case
723484	Lens spray
723671	Lens cloth

Applied parts

Part number	Description
106404	Reusable Eye Cups for Welch Allyn RetinaVue 100 Imager: Qty. 5

Service

Part number	Description
S1-RV100-1	Welch Allyn Partners in Care Comprehensive Partnership Program Service for RetinaVue 100 Imager; 1 year
SV-RV100-2	Welch Allyn Partners in Care Comprehensive Partnership Program Service for RetinaVue 100 Imager; 2 years
SV-RV100-3	Welch Allyn Partners in Care Comprehensive Partnership Program Service for RetinaVue 100 Imager; 3 years
S1-RV100-1P	Welch Allyn Partners in Care Comprehensive Partnership Program Premium Service for RetinaVue 100 Imager; 1 year
S1-RV100-2P	Welch Allyn Partners in Care Comprehensive Partnership Program Premium Service for RetinaVue 100 Imager; 2 years
S1-RV100-3P	Welch Allyn Partners in Care Comprehensive Partnership Program Premium Service for RetinaVue 100 Imager; 3 years

Literature/Documentation

Part number	Description
724146	RetinaVue 100 Imager Technique guide
726974	RetinaVue Network Exam Wall Poster

Warranty

Welch Allyn warrants the product to be free of defects in material and workmanship and to perform in accordance with manufacturer's specifications for the period of one year from the date of purchase from Welch Allyn or its authorized distributors or agents.

The warranty period shall start on the date of purchase. The date of purchase is: 1) the invoiced ship date if the device was purchased directly from Welch Allyn, 2) the date specified during product registration, 3) the date of purchase of the product from a Welch Allyn authorized distributor as documented from a receipt from said distributor.

This warranty does not cover damage caused by: 1) handling during shipping, 2) use or maintenance contrary to labeled instructions, 3) alteration or repair by anyone not authorized by Welch Allyn, and 4) accidents.

Shipping cost to return a device to a Welch Allyn Service center is not included.

A service notification number must be obtained from Welch Allyn prior to returning any products or accessories to Welch Allyn's designated service centers for repair. To obtain a service notification number, contact Welch Allyn Technical Support.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. WELCH ALLYN'S OBLIGATION UNDER THIS WARRANTY IS LIMITED TO REPAIR OR REPLACEMENT OF PRODUCTS CONTAINING A DEFECT. WELCH ALLYN IS NOT RESPONSIBLE FOR ANY INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM A PRODUCT DEFECT COVERED BY THE WARRANTY.



Material No.

411492