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User Manual

Raptor[®] Solo Integrated Analysis Platform User Manual

Introduction

The Raptor[®] Solo Integrated Analysis Platform is a lateral flow test strip reader with built-in incubation. The instrument provides an easy way to objectively analyze and store the results of Neogen[®]'s lateral flow tests. The handheld design offers additional flexibility in testing — whether in the lab or in the field.

Materials Provided

- Instrument
- Power cable and international adapters
- Micro USB communication cable
- USB micro adapter

- Testing tracks endpoint and allergen
- Testing track removal tool
- Calibration cartridge
- Solo endpoint cartridge



Optional Accessories

- Positive and negative standards (Neogen SKU 700002787)
- Mini Keyboard (Neogen SKU 700004069)
- Raptor Thermometer Assembly (Neogen SKU 700002789)
- Printer (Neogen SKU 700004067)
- Printer Paper (Neogen SKU 700004068)



Positive and negative standards



Mini keyboard





Printer

Printer paper

Getting Started

The Raptor Solo instrument must be charged or connected to a power source to be turned on.

Charging the Raptor Solo

- To charge the Raptor Solo instrument, connect the power adapter to the left side of the unit.
- When powered off and connected to the power adapter, the instrument will reach full charge in three hours.
- When the unit is on or in use while connected to the power, it will maintain its current power state.
- A dialog will display to notify the user when the battery needs to be charged



Storage Conditions

Store the Raptor Solo instrument in a dry, dust-free environment at normal room temperature.

Turning on the Unit

From the front panel of the instrument, press the power button on the left-hand side.



Startup Calibration Check

During boot up, the instrument performs a baseline calibration check. This check verifies that the camera is in line with the position of the cartridge. It also confirms that the illumination is consistent with its factory calibrated settings. When the validation passes, the unit will boot up directly to the home screen. If the validation fails, a message will be displayed indicating this failure. Contact Neogen support for further instructions.



Main Menu

Navigating the Unit

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From the main menu, you have access to a number of features:

- Run a test press the Run Test tab and follow the instructions on the screen.
- Enter data transfer mode select the bottom right computer icon and connect the unit to a PC to sync results to the Data Manager software. For instructions on transferring data, see the Data Manager section.
- Check the Wi-Fi connection status select the bottom left Wi-Fi icon. The icon color indicates whether the instrument is connected to a network or not. The icon will be green when the instrument is connected and red when disconnected. For instructions on how to connect to a network, see Network Settings listed in the Settings Menu section.



- Navigate to settings the Settings Menu allows you to add Lot IDs, connect to Wi-Fi, choose track type, and do a diagnostic check. Select the gear icon 🖾 on the top left-hand side of the main menu screen to access the Settings Menu.
- Open the side menu the side menu allows you to check the battery charge status, view results, set up user preferences, check the unit status and power off the instrument. Press the menu icon 🗐 on the top right of the main menu screen.
- Front keypad the keypad at the base of the front of the unit is intended to allow quick access to several key features.
 - Pressing the right button opens the side menu when you are on the main menu.
 - Pressing the middle button can be used to return to the main menu during the testing routine.
 - Pressing the left button is a hard-reset only to be used in the rare case of a unit being nonresponsive. To safely shut off the unit in all other instances, use the side menu power feature as described in the Side Menu section.

Micro USB Port

The Raptor Solo features two micro USB ports, one on either side. The diagram below illustrates the functionality of each of these ports.



- To use a printer with the reader, use a micro USB adapter to connect the USB side of the printer's cable to the right side micro USB port. Supported printer is the Seiko Instruments Smart Label Printer 620 (Neogen SKU 700004067). Printer paper is also available (Neogen SKU 700004068).
- To update the software version on the reader, insert a micro USB flash drive into the right side micro USB port and navigate to the side menu> Unit Status.
- To sync data to the Data Manager software, insert the micro USB sync cable into the Mini USB port on the left side of the reader and the other side into your PC's USB port, then select the bottom right data transfer mode icon from the main menu.



• To USB charge the reader, connect the micro USB sync cable on the left side of the reader. Please note that this charging method is not as fast as charging via the wall power adapter.

Diagnostic Check

The Raptor Solo requires users to perform a diagnostic check annually to validate the system's optics module.

- You can check the status of your diagnostics in the Unit Status screen located in the Side Menu.
- To perform the diagnostic check:
 - Access the settings menu by pressing the gear icon on the top left-hand side of the Main Menu.
 - Select diagnostic check
 - Insert the white crosshair cartridge into the reader port with the + facing you
 - Press start
 - Status of Valid will show on the bottom of the screen after the completion of the diagnostic check. If the check fails, contact Neogen.



Turning the Reader On and Off

To power off a unit safely, the user should navigate to the **Side Menu** and select Power. From here, the user can select Restart or Power off. This function allows the reader to properly complete any read or write cycles prior to powering off, preventing the unintended loss of data that can occur if a unit is powered off using the left-most button on the keypad.



Hard Reset

If a hard rest is required, the user can power off the unit using the left-hand side button on the keypad. Powering off the unit in all instances other than a hard reset should be done via the Power settings selected from the **Side Menu**.



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Side Menu

Side Menu

Press the menu icon on the top right of the main menu screen. From here, you can access:



- Check the battery charge status by observing the battery's icon on the top right-hand corner. The icon will graphically display the battery status.
- View results allows you to view tests that have already been run. You may view the details of any results by selecting it from the list.

You can delete all tests by selecting the icon at the top right of this page – be sure you have downloaded all results to the Data Manager prior to deleting the results.

You can print the test result by selecting the result you want and pressing the printer icon on the top right corner of the screen.



- Select User Preferences this screen allows you to add, select or delete users. Test results are tied to the user that is selected at the time the test is performed.
 - Select the icon on the lower right-hand corner to add additional users
 - Enter the new user name using the keypad on the screen; you can enter up to 25 characters
 - Select the Accept button to add the user
 - Select the Cancel button to return to the previous screen



• Select the on the top right-hand corner of the user screen to change Users, Time and Date, PPM/PPB toggling, Unit IDs, Brightness, Printers, Volume, and Language.

- User
- Time allows user to select date (MDY or DMY) and time (12 or 24) format

< User	0	K User 🔨	< Time 🕴
		User	
Current		Time	Date
Andrew		Unit	30/11/2018
Select oth	er	Site ID	
		Brightness	Time
		Printers	04:51 PM
S Solo	×	Volume	
U User	\times	Misc	Format
	<u>ک</u> ⊕	Language	DMY 12-Hour

- Unit select the unit of measure required (PPM/PPB). Results for these tests will be displayed in the unit of measure selected.
- Site ID allows user to add extra identifiers for traceability of results
- Brightness adjust the brightness of the screen display by pressing the 🖶 🔵

<	Unit	0000
Test Name		Select Unit
Q+ DON		ppm
Q+ MAX D	ON	ppm
Q+ MAX F	umonisin	ppm
\bigtriangleup		
50		

- Printers turn Auto-print on/off. When on, the results will print immediately provided the printer is attached. The Seiko Instruments Smart Label Printer 620 (Neogen SKU 700004067) is the recommended printer.
- Volume adjust the volume using
 The Haptic Feedback feature provides a vibration key touch. Press Turn on or Turn off to activate/deactivate.
- Misc enable the Auto Sample ID Scanner or the Dilution Factor from this menu. Press the Home Button in the bottom left corner to return to the home screen, or the three dots in the upper right corner to return to the User Preference menu.
- Language select the language desired, press Apply Changes
- A system restart is required to apply the changes, Press Restart and follow the on screen instructions

< Printers 🚦	< Volume §	K Misc	< Language	NEDGEN
Auto-print Turn ON	Volume: 4	Auto Sample ID Scanner	Language	Language Updated!
R Network printing		Enabled	English • Español	
Static IP Address		Enable Dilution Factor	Français Deutsch Português	Restart required to apply changes.
Select network printer	Haptic Feedback	Enabled	Nederlands Magyar	
Selko SLP 620	Turp ON		Українська Türkçe -	
Dymo 450 Turbo			Apply Changes	Restart
Detekt Handheld				
6		6	6	

- Select Unit Status to view instrument details such as current software version and date of last diagnostic check. Software and Database status is also displayed on this screen.
 - From here you can insert a flash drive into the right micro USB port to update the software/database version. For instructions on updating, see the Updating the Instrument section.
- Select Power it is very important that you power off the unit from this selection. This allows the reader to properly complete any read or write cycles prior to powering off, preventing the unintended loss of data that can occur if a unit is powered off using the keypad on the unit.





Settings Menu



Settings Menu

Press the gear icon on the top left of the main menu screen. From here you can access:

- Lot ID The Lot ID database stores lot-specific information
- Each kit lot has a lot specific QR code that contains all the lot-specific information.
- To run a test strip, the lot information must be saved on the instrument.
- Select Lot ID to add new kit lots to the instrument. The QR Scanner will automatically initiate and the user is prompted to scan the associated QR code located on the device tube. Once the user has scanned the lot-specific QR code, the lot information will be saved, and the user will not be prompted to scan it again.
- Trash can icon Select this icon to delete Lot ID information



- Network Settings The reader is Wi-Fi enabled to allow for remote updates and data transfer.
 - Select the Network from the list on the screen
 - Enter the Network Password
 - Select Connect



- Track Replacement This feature allows you to select the Neogen testing format.
 - Standard endpoint assays
 - Vortex cartridge

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- Allergen 3D cassettes
- For information on how to change the track, see Track Replacement section.
- Diagnostic Check The Raptor Solo requires users to perform a diagnostic check annually to validate the system's optics module.
 - You can check the status of your diagnostics in the Unit Status screen.
 - To perform the Diagnostic Check:
 - Access the settings menu by pressing the gear icon on the top left- hand side of the main menu.
 - Select Diagnostic Check
 - Insert the white crosshair cartridge into the reader port with the + facing you
 - Press Start
 - Status of Valid will show on the bottom of the screen after the completion of the diagnostic check. If the check fails, contact Neogen.



• Scan Configuration – This feature is password protected and can only be accessed by Neogen.

Advanced Settings

- Database Contains Neogen test specific information. This field is not accessible to user.
- Unit Diagnostics This field requires a password (6364) to access. In this menu you can access:
 - Total test count This shows the total number of readings performed on the instrument.
 - Select the **i** icon on the top right -hand corner to see:
 - Total test count
 - Live preview shows what camera sees
 - Factory settings restores original factory settings
 - Heater testing
 - Approve heater the mycotoxin assays are performed at 30C. The Approve heater is an optional function.
- Developer This feature is password protected and can only be accessed by Neogen.
- Hardware This feature is password protected and can only be accessed by Neogen.



Running a Test Using the Raptor Cartridge

The Run Test icon is located on the home screen. When a user selects **Run Test** the instrument enters the test routine mode providing step-by-step instructions.

Test Routine Workflow

- Insert cartridge containing at least one test strip into the port.
 - The instrument recognizes a cartridge has been inserted and will scan the device(s) found within the cartridge.
- The test strip barcodes are identified.
 - Test information is linked by the barcode on the test strip.
 - If the instrument does not have the lot-specific information, the barcode scanner will turn on for the qr code to be scanned.
 - Hold the tube containing the lot-specific QR code within the scanner range. The instrument will accept the data and display the lot number of the test strip in the cartridge.
- The Scan Sample ID screen appears allowing you to scan a barcode on your sample. If your samples do not have a barcode, you can manually enter the information by pressing the icon.
 - Enter the sample ID using the keypad and press the Accept icon.
- Heating of internal incubator.
 - Based on the test information, a target testing temperature is set.
 - NOTE: Do not add sample until the incubator reaches the correct temperature.
 - Once the target temperature is reached, the user can proceed by adding a sample when prompted.



- Add sample to the cartridge
 - Using a pipette, collect 400 μL of sample and carefully dispense the liquid into the funnel-shaped opening at the top of the cartridge.
 - The sample size is always 400 μL whether running 1 test strip or up to 3 test strips per cartridge. (NOTE: this volume must be added in one aliquot)
 - Once the sample addition is complete, press Next



- Fluid front detection
 - The instrument will look for the fluid front of the sample. Once detected, the timer for the assay will begin.



- Test timer is activated.
 - Each test has a specific run time that must elapse before results can be analyzed.
 - The timer on the screen indicates the remaining test time.
- Analysis
 - Once the specified time has elapsed, the reader will automatically capture an image of the strip(s) and analyze the results.
- Results Screen
 - After the strip(s) in a cartridge are analyzed, the sample results screen is displayed. An audio tone will sound and all result information is saved on the reader. If auto-print is enabled, the result will automatically print.
 - The result screen will display results for each strip. This screen gives the user gives the user a quantitative result for each strip in the cartridge.
 - Click on a strip name for more detailed result information.
 - Test line name
 - Test result
 - Image with regions of interest for analysis shown
 - Results can be printed from this screen by clicking the printer icon.



Running an EndPoint Assay

Test Workflow

• The instrument must be in Standard mode to read the Reveal Q+ for EndPoint test strips.

Setting up the Instrument for Standard mode

- 1. From the Main Menu, select the 👸 in the upper left-hand corner.
- 2. Select Track Replacement.
- 3. Select Standard, return to home screen by pressing the \square in the lower left-hand corner.
- 4. Insert the track replacement tool with the arrow facing towards you into the track of the unit. Gently pull up to remove the track.
- 5. Insert the Standard EndPoint testing track into the unit (blue dot on right-hand side).

びたい 01:57 PM Sep 20, 2022 日	< Settings	.< Track	
* NEOGEN	Lot ID	Select device track	
	Retwork Settings	Standard	
	Track Replacement	Vortex	
	Diagnostic Check		
	Scan Configuration	Allergen	
Run Test	Advanced Settings		
€ 1028		ŵ	

Running an EndPoint Assay

- 1. From the Main Menu, select Run Test.
- 2. Select Category Mycotoxin Q+.
- 3. Select Test.
- 4. Select Q+ EndPoint assay that you are running. (If running a 50 g sample size for DON, select the FGIS program).
- 5. Select Lot (lot number is listed on the test strip tube). If current lot is not shown, select Add Lot ID; QR code scanner will activate allowing you to add the new lot to the instrument.



- 6. After selecting the Lot from the list, Enter the Sample ID and hit the green check mark.
- 7. After following the testing protocol, place the developed test strip into the test strip holder and place it into the instrument.

Note: Sample results greater than the range of quantitation for the assay must be diluted and re-tested. Please refer to the kit inserts for further information.

	Enter	r Sam 3290	ple I)	Testing $ imes$	Testing	\times	Q+	DON Endp	oint $ imes$
1	2	3	4	5		Sample ID: 3290 Lot ID: 318321		Control	Lo	t 318321
a	b	° c	d	e				245,4	442	Ratio
f k	g I	h m	i n	j 0		1%		0.95	ppm	1.02
p u	q v v	[r w] .	∫s ×∫∶	\int_{t}^{t}	Insert Cartridge	Analyzing				
&123			Û					5	23456	Ē

Dilution Factor

The dilution factor feature adds the dilution that you prepare offline to the results, so the calculation is completed and shown on the final result screen. This result can then be transferred to your data analysis program.

The feature must be enabled in order to access the screens needed.

Enabling the Dilution Factor

- 1. Press the menu icon on the top right of the main menu screen
- 2. Select User Preferences, then select the in the top right hand corner of the user screen.
- 3. Select Misc, then press the Disabled button under Enable Dilution Factor. Select the Home button in the lower left hand corner to return to the main menu.



Running a dilution on the Solo

- 1. Select Run Test from the main menu screen
- 2. Insert a new cartridge containing the test strip into the port.
- 3. Enter the sample ID
- 4. The system will automatically equilibrate to 30.0°C for mycotoxin assays
- 5. Select Add Dilution
- 6. Select the appropriate dilution that you have done offline, then select Next
- 7. Add diluted sample to the back of the cartridge and select Next
- 8. System will run assay and report out the result dilution factor used is shown on the bottom of the screen.



Updating the Instrument

The instrument will require software updates that may include new features being added, additional test information for new test types, and general software updated. The instrument can be updated either wirelessly or using a USB flash drive with micro USB adapter.

- Unit Status
 - Access the side menu 😑 from the Home screen
 - Select Unit Status
- USB Update



- Click this link to download the latest Raptor Solo Updates ftp://raptor-sguest:Guest!@ftp.neogen.com/Software/ RaptorSoloUpgrade.zip
- Unzip the contents of the downloaded file. The zip file will contain the latest Raptor Solo PC Data Manager software, test package, and device firmware.
- Copy the JSON test package file and the TGZ firmware file onto an empty USB flash drive:



- Plug the micro USB flash drive with the update into the micro USB port on the right side of the instrument.
- The micro USB drive will be scanned by the instrument. If a new update is identified, a button will display for both a software update and test type package update depending on what is available on the FTP server.
- Install each update by selecting the available button on the screen.
- The icon on the bottom left corner will turn from red to green when connected to the wi-fi.

< Settings	< Wi-Fi 🔨	NEDGEN	03:49 PM May 06, 2024
Lot ID	Wi-Fi NeogenGuest	Connecting to Wi-Fi	NEOGEN
Network Settings	bcwifi AccuPoint	Network	
Track Replacement	Neogen Private Raptor		
+ Diagnostic Check	bcwifi AccuPoint	NeogenGuest	
Scan Configuration	Password		
Advanced Settings	Connect	Cancel	Run Test
			·

Wi-Fi Update

The insrument will periodically contact the Neogen File Transfer Protocol (FTP) servier to check for updates. When a new update is available, a button will display for both a software update and test type package update depending on what is available from the server.

To check the status of updates available:

- Access the side menu by pressing the icon at the top right hand corner of the screen.
- Select Unit Status
- Select Update Database- when completed, the reader will restart
- Return to Unit Status screen and repeat process selecting Update Software- when completed the reader will retart.
- Return to the Unit Status screen to check that update has been completed



Track Replacement

The Raptor Solo features interchangeable cartridge inserts that allow multiple cartridge and test strip type dimensions to be used. The unit has the Vortex cartridge track installed when shipped. There are two other tracks included in the system and a tool to use during track replacement.

- From the Main Menu, select the 👸 in the upper left hand corner
 - Select Track Replacement
 - Standard Track with the blue dot on the right-hand side. Use this track with the end-point cartridge.
 - Vortex Track with the green dot on the right-hand side. Use this track with the Raptor cartridge.
 - Allergen Track with the red dot on the right-hand side.
 - Select the track that you will be using the red box will show your selection.
 - Return to the home screen by selecting the in the left-hand lower corner.

<	Track
	Select device track
	Standard
	Vortex
	Allergen
ŵ	

- Insert the track replacement tool with the arrow facing towards you into the track in the unit.
- Gently pull up to remove the track.
 - To remove the tool from the track, gently press on the end of the tool and extract from the cartridge.
- Insert the desired track into the unit.

Data Manager

The Data Manager software may be installed on Windows and Mac Operating Systems. The Data Manager is compatible with Windows 7 and above operating systems.

Installation

Aptor Dat Manager

- Insert the provided USB drive into the computer and run the setup.exe installer.
- Make sure the Data Manager is installed and the Solo reader is connected through the provided micro USB cable.
 - Double-click on the Data Manager shortcut on the computer desktop.
 - Home Screen
 - The launch of the software will display the home screen featuring an animation and a link to the Neogen software. Select the Raptor Solo icon.



• There are 6 menu items on the left-hand side of the operation screen.

The menu can be hidden or shown by selecting the **Fragge** icon.



• View Results

The results screen can be configured using the Detailed, Summary, or Custom View options.

Reptor Solo Data Manager															- 0	5 X
≡ ¥Raptor Solo															Version	1.0.0.20
₽ View Results	Detailed	Summary Cust	om View Show 100	 entries 									s	learch:		
	Reader ID	User Name	Time 17	Location ID 11 Site ID 11 Tes	t Name 💷	Lot ID	Sample ID	Port 11	Strip 11	Desired Temp	Actual Temp	Runtime 11	Control Line	Name	t Test (†	Ratio
	1014	Andrew	11/28/2018 10:10:08 AM	Posi	tive Calibrator	999999		1	1	0	0	0	844694	Test Line 1	393806	0.47
	1014	Andrew	11/28/2018 10:10:08 AM	Pos	tive Calibrator	9999999		1	2	0	0	0	849458	Test Line 1	396638	0.47
	1014	Andrew	11/28/2018 10:10:08 AM	Pos	tive Calibrator	9999999		1	3	0	0	0	843609	Test Line 1	395405	0.47
	1014	Andrew	11/28/2018 10:09:52 AM	Neg	ative Calibrator	999998		1	1	0	0	0	860762	Test Line 1	1694883	1.97
	1014	Andrew	11/28/2018 10:09:52 AM	Neg	ative Calibrator	999998		1	2	0	0	0	857728	Test Line 1	1715019	2.00
	1014	Andrew	11/28/2018 10:09:52 AM	Neg	ative Calibrator	999998		1	3	0	0	0	852849	Test Line 1	1697265	1.99
	1014	Andrew	11/27/2018 04:30:52 PM	Neg	ative Calibrator	999998	8888888	1	1	0	0	0	721990	Test Line 1	1430012	1.98
	1014	Andrew	11/27/2018 04:30:52 PM	Neg	ative Calibrator	999998	8888888	1	2	0	0	0	724488	Test Line 1	1457439	2.01
	1014	Andrew	11/27/2018 04:30:52 PM	Neg	ative Calibrator	999998	8888888	1	3	0	0	0	722433	Test Line 1	1437096	1.99
	1014	Andrew	11/27/2018 04:30:11 PM	Neg	ative Calibrator	999998	333333	1	1	0	0	0	729396	Test Line 1	1439589	1.97
	1014	Andrew	11/27/2018 04:30:11 PM	Neg	ative Calibrator	999998	333333	1	2	0	0	0	726944	Test Line 1	1452346	2.00
	1014	Andrew	11/27/2018 04:30:11 PM	Neg	ative Calibrator	999998	333333	1	3	0	0	0	722016	Test Line 1	1436928	1.99
	1014	Andrew	11/27/2018 04:29:11 PM	Neg	ative Calibrator	999998	11111	1	1	0	0	0	728390	Test Line 1	1441957	1.98
	1014	Andrew	11/27/2018 04:29:11 PM	Neg	ative Calibrator	999998	11111	1	2	0	0	0	726574	Test Line 1	1455163	2.00
	1014	Andrew	11/27/2018 04:29:11 PM	Neg	ative Calibrator	999998	11111	1	3	0	0	0	722471	Test Line 1	1432415	1.98
	1014	Andrew	11/27/2018 04:27:08 PM	Posi	tive Calibrator	999998		1	1	0	0	0	732059	Test Line 1	1444760	1.97
	1014	Andrew	11/27/2018 04:27:08 PM	Posi	tive Calibrator	899998		1	2	0	0	0	729165	Test Line 1	1462313	2.01
	1014	Andrew	11/27/2018 04:27:08 PM	Posi	tive Calibrator	999998		1	3	0	0	0	726391	Test Line 1	1444225	1.99
	1014	Andrew	11/27/2018 03:17:05 PM	Q+1	WAX T2/HT2	264454		1	2	30	30	5	3083	T2/HT2	1769	0.57
	1014	Solo	10/31/2018 09:10.26 AM	Q+1	NOC	257054	Don 5	1	1	30	30	3	447197	DON	100372	0.22
	1014	Solo	10/31/2018 09:10:26 AM	Q+1	DON	257054	Don 5	1	2	30	30	3	441134	DON	102076	0.23
	1014	Solo	10/31/2018 09:10:26 AM	Q+1	DON	257054	Don 5	1	3	30	30	3	431405	DON	100627	0.23
	Showing 1 to	25 of 25 entries												Due		Mont

- Detailed View shows all parameters available
- Summary shows key result fields
- Custom allows user to choose which columns to view on program

Raptor Solo D	ata Manager		
_	Solo		
Loaded all resu			
Detailed	Summary	Custom View	
		Reader ID	
Reader ID	User Nam	User Name	Te
1028	Neogen	Time :48 AM	1 Q-
1028	Neogen	Location ID :22 AM	1 Q-
1028	Neogen	Site ID 1:33 AM	1 Q-
1028	Neogen	Test Name 1:04 AM	1 Q-
1028	Neogen	Lot ID	1 Q+
1028	Neogen	Sample ID	1 Q-
1028	Neogen	Port 59 PN	1 Q:
1028	Neogen	Strip 12 AN	
1028	Neogen	Desired Temp	
		Actual Temp	
Showing 1 to 4	16 of 46 entri	Runtime	
		Control Line	
~		Name	
		Test	
Time:	24 02.15	lest	
00/20/20	24 02.10.	Ratio	
User Nan	ne: Neogen	Result	
Test Nam	Ie: Q+ DON	Name	
Lot ID: 33		Test	
Sample II	D: 1234	Ratio	
		Result	
		Name	

- The number of data entries can be configured to show 10, 25, 50 or 100 results per page.
- The Search box on the right-hand side is a tool that will query the test data base for information of interest.
- Data can be quickly sorted in ascending or descending order for each column by clicking on the column title.
- By selecting the data row for a specific result, a test detail view will appear in the lower half of the screen. The test detail view contains:
 - Image of the device
 - Specific information on the sample (Test, lot #, Sample ID, time, date)
 - Graph of the test and control line intensity values

Time:	
12/20/2018	10:49:37 AM

User Name: Solo

Test Name: Q+ DON Reader ID: 1029 Lot ID: 257054 Sample ID: Test

Q Truck Information

- Truck information tab
 - Select this button to add truck information for the sample
 - Select edit to add information for:
 - shipping name/FOB
 - truck information
 - invoice/ticket
 - truck destination
 - travel authorization/discharge
 - comments

*	Truck Informatio	n	
Time: 12/20/2018 10:49:37 AM	Shipping Name FOB	Edit	Comments:
User Name: Solo	Truck Information:	Edit	Edit
Reader ID: 1029	Invoice / Ticket:	Edit	
Sample ID: Test	Truck Destination:	Edit	
	Travel Authorization / Discharge:	Edit	

Export Data Options

Data can be exported in common file formats for further analysis or integration into Laboratory Information Management Systems (LIMS).

- Save As select the destination location for the file export and name the export file. Note: Do not add a file extension at this point of the process.
- Filter Data select test parameters to be exported. Options include:
 - date range
 - user name
 - reader ID
 - test name
 - lot ID
 - result
- Custom Data Representation allows user to customize field names. For example, Solo uses "User Name" while a company may use "User ID" to identify the person running the assay. This feature allows user to customize to their nomenclature. The checkboxes to the left indicate what fields will be included in the final data export.
- Export Settings choose file format and separator needed. Press Save Export Settings.

- Import/Browse Data
 - Data Storage Use a data storage folder by selecting the Browse button and choosing an existing folder or creating a new folder. This is where the data files will be stored. This location will be saved and all data will go to this folder until a user changes it.
 - Import via USB cable
 - Connect the Solo reader to your computer using the micro USB cable.
 - Select Data Transfer mode 📃 from the main menu.
 - Select the USB transfer mode.



- From the Data Manager Screen shown on the left:
 - Select Browse
 - Select data
- Select folder
 - Choose to import new test results or
 - Import new test results and erase all data on reader
- Select import



- Import via local network transfer data through a wireless network connection
 - Identify the unique IP address for the unit by selecting the wireless icon on the home screen of the Solo.
 - Enter the IP address for the Solo in the field provided.
 - Select Import to transfer data from the instrument.
 - A progress bar will display import progress.

Select Folder						Х
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Organize 👻 New folder				0 00	•	?
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🔿 Network 🗸 <						2
Folder:						
			Select Folder	C	ancel	

- Settings
 - Language choose desired language from drop down menu
 - Date Format choose MM/DD/YYYY or DD/MM/YYYY
 - Hour Format choose 12 or 24-hour format
 - Trucker ID enable Trucker ID fields
- Unit Status gives reader diagnostic status of the instrument
- Switch Device this allows the Data Manager to go from the Solo unit to a Raptor unit

= ¥Raptor Solo	
₽ View Results	Export Data Ontions
Export Data Options	Export Build Options
B Import/Browse Data	Note: Filter the data by categories such user, reader ID, etc. and generate an export file in your desired format.
Settings	1. Save As
键 Unit Status	Name
G Switch Device	Go NOT add file extension name. (i.ebt, .xisx. etc.)
	Location Q Browse
	2. Filter Data
	Date Range To Clear
	User Name • Export All Reaser ID • Export All Test Name • Export All Lot ID • Export All Result • Export All

🕺 Raptor Solo Data Manager		
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销 Unit Status	MMIDDAYYY	
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	Trucker ID	
	Save :	Settings





Troubleshooting

For technical support – contact

Neogen Corporation 620 Lesher Place Lansing, MI 48912 USA (800) 234-5333 (USA)

Maintenance

General Care

- This instrument contains sensitive electronics and optical components and must be treated with care.
- To clean the touchscreen on this instrument, wipe it gently with a soft cloth. Avoid using any liquid solvents to clean the screen.

Spills

- In the event a sample is spilled in the instrument, turn off the device and carefully remove any sample cartridges. Keep the instrument upright and allow any excess liquid to drain out of the holes at the bottom of the unit, directly below the port openings. Wipe up the liquid from under the instrument with a cloth. For any remaining liquid inside the instrument, use a long cotton swab to clean the internal ports.
- For minor spills on or around the exterior of the instrument, wipe away any liquid quickly. Ensure no liquid has come into contact with any external ports or buttons before proceeding.
- For more severe spills, contact Neogen.

Technical Specifications

Power

- Chargeable via 12V 3.4 A
- Wall Power Adapter and Micro USB Cable

LCD Display Screen

- 4.3" capacitive touchscreen with:
- onscreen keyboard
- haptic feedback
- 480 x 272 resolution

Dimensions

• 8" x 4" x 4" (21 x 10 x 10 cm)

Connectivity

• Wi-Fi and USB

Memory

• 6 GB Micro SD Memory Card – stores 3000 results

Battery

• 5200 mAh Lithium-Ion – approximately 4 hours (depending on incubator temperature)

Safety Information

Service

• This instrument has no user serviceable parts and must be returned to Neogen for service.

Power

- To power or charge the instrument, assemble the power cable by connecting the desired regional power adapter to the power supply. Plug the AC line into an outlet and insert the plug into the instrument.
- Components such as power supply and built-in information technology equipment shall be used in accordance with their specified ratings unless a specific exception is made.

Design Conditions

- Indoor use only
- Altitude up to 2,000 m
- Temperatures 5–40°C
- Maximum relative humidity 80% for temperatures up to 31°C, decreasing linearly to 50% relative humidity at 40°C.

Note: If this instrument or any of its associated parts are used in a manner not specified by the manufacturer, the protection provided by the instrument may be impaired.

Warranty

The Raptor Solo Integrated Analysis Platform carries a 12-month limited warranty on defective materials and workmanship. Buyer assumes all risk and liability resulting from the use of this product. There is no warranty of merchantability of this product, or of the fitness of the product for any purpose. Neogen shall not be liable for any damages, including special or consequential damage, or expense arising from the use of this product.

