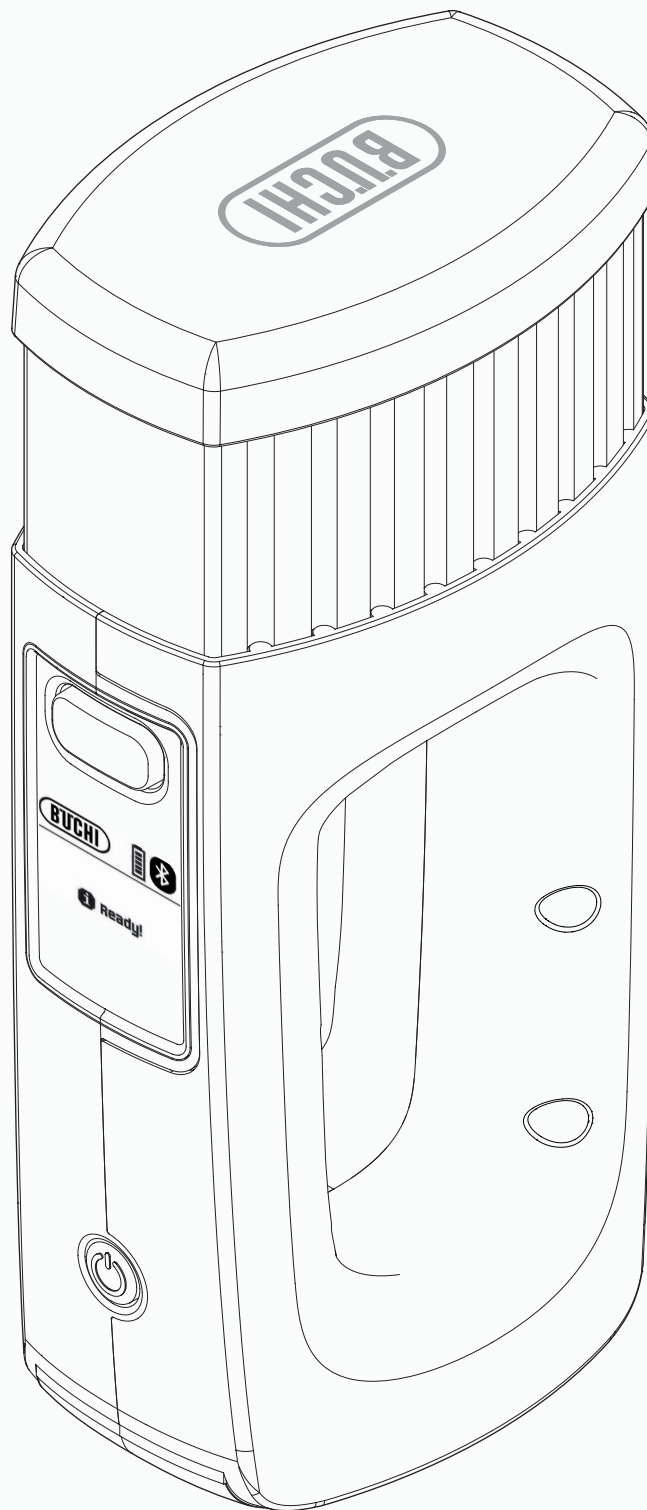




Operation Manual with Quick Start Instructions

ProxiScout™



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BUCHI reserves the right to make changes to the manual as deemed necessary in the light of experience; especially in respect to structure, illustrations and technical detail.

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Overview

ProxiScout™ is an advanced high performance FT-NIR spectrometer, simply referred as "instrument" in this manual.

The instrument can be fitted with various accessories to optimize the analysis of material samples:

- ProxiScout™ Rotator for non-homogeneous and granular solids
- ProxiScout™ Powder Analysis Kit for powders and ground solids
- ProxiScout™ Liquid Analysis Kit for clear and opaque liquids

This manual is organized into two major sections:

- Sections 1 – 9 provide information about the instrument itself, including component descriptions and basic operation.
- Sections 10 – 14 provide specific **quick start instructions** for using the instrument with accessories to analyze material samples.

1 Main Parts

- A. **ProxiScout™:** The main spectra collection instrument (Figure 1).
- B. **Protective Cover:** A protective cover for the optical window that should be placed on top of the instrument when it is not being used. The protective cover attaches to the instrument easily via magnets. The protective cover also includes a small white box containing a reference material for calibration measurements. To avoid losing the protective cover, make sure to use the lanyard to attach it to the instrument.
- C. **Power adapter:** An AC/DC adapter dedicated for use with the instrument via a USB connection. It also comes with a power plug converter for users located in the USA. Refer to Section 3 for more details about the adapter usage.

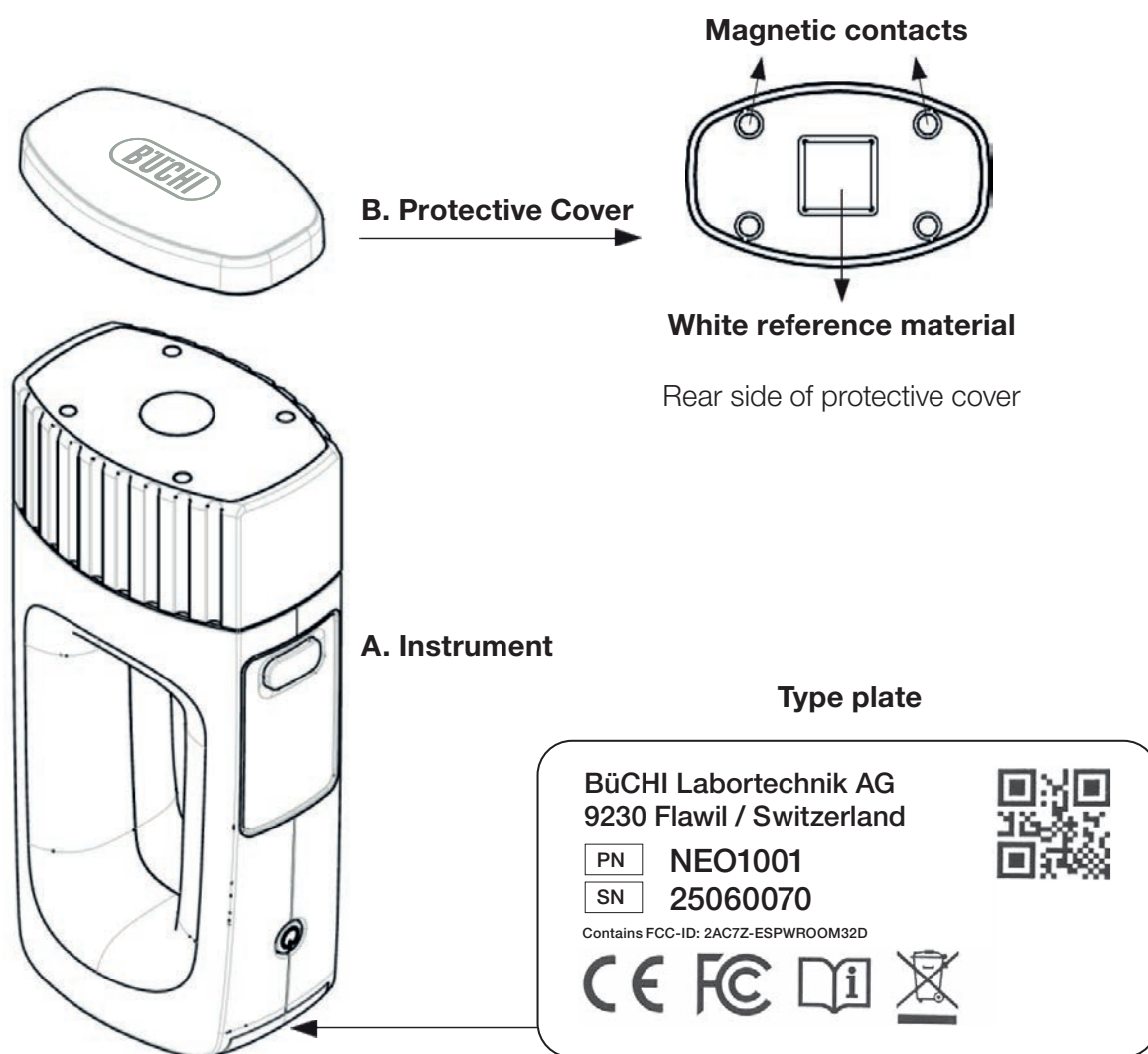


Figure 1: Main Parts

1.1 NeoSpectra Software Suite

ProxiScout™ can be operated in stand alone mode in the field. In this case all material scans are stored in the instrument for later analysis.

For optimum use ProxiScout™ seamlessly interfaces with a suite of software solutions for easy data collection and reporting from anywhere.

The data generated by all ProxiScout™ instruments within an organization is automatically transferred and synced to the cloud portal for centralized data access.

NeoSpectra Scan App

The Scan app connects ProxiScout™ to a mobile phone or tablet PC via Bluetooth, and to the NeoSpectra portal via the Internet. The Scan app supports the analysis of materials from ProxiScout™.

NeoSpectra Collect App

The Collect app connects ProxiScout to a mobile phone or tablet PC via Bluetooth. The Collect app supports the analysis of materials and syncs the raw spectra to the NeoSpectra portal for model development.

NeoSpectra LabStore

The NeoSpectra LabStore is a marketplace for pre-built robust calibration models for a wide variety of applications. Users can browse, compare, and subscribe to models in the LabStore.

1.2 Technical Data for ProxiScout™

General specifications	
Dimensions (W x D x H)	178 x 91 x 62 mm
Weight (with batteries)	1 kg
IP Code	65
Battery type	2 pcs. 18650 Li-ion batteries, 3400 mAh nominal capacity, rechargeable
Battery life (2-second scans)	approx. 800 scans
Battery charging port	USB C
Wireless connectivity	Bluetooth V4.2 BLE

Ambient conditions	
Max. altitude above sea level	2,000 m
Ambient and storage temperature	5 – 40 °C
Max. relative humidity	80% for temperatures up to 31 °C decreasing linearly to 50% relative humidity at 40 °C
Areas for application	for indoor use and outdoor use (e.g. in the field of agriculture)

Optical specifications	
NIR light source	MOEM
Life time	max. 10,000 hrs
Wavelength range	1,350 – 2,550 nm (7,400 – 3,920 cm ⁻¹)
Resolution (at $\lambda = 1,500$ nm, FWHM criterion)	16 nm (66.6 cm ⁻¹)
Typical SNR (nms) scan time = 2 s, $\lambda = 2,350$ nm	2,000 : 1
Sample coverage (diameter of collected light beam)	~ 10 mm

2 User Interface

2.1 Scan and Power Buttons

The main functionality is controlled by the Scan and Power buttons (shown in Figure 2) as summarized in the table below.

Power Button Functionality	Scan Button Functionality
1. A short press turns on the instrument if it's powered off. 2. When the instrument is turned on: a. A long press turns the instrument off. b. A short press will change the status of the Bluetooth connection from "Disconnected" to "Ready to connect". Refer to Section 5 for more details about the Bluetooth connection.	1. A short press is used to take a sample measurement. 2. A long press is used to take a calibration measurement. In Scan app version 15 and higher, a remote mode is available that allows a user to initiate scanning with the Scan button. Please see the Scan app for more information.

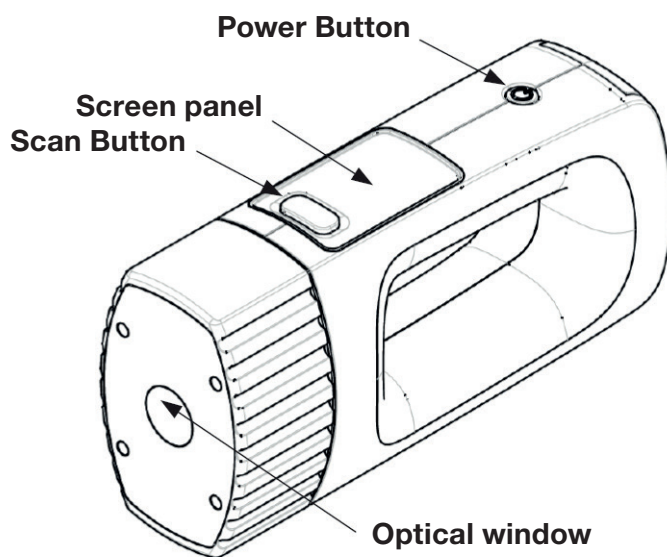


Figure 2: Instrument interfaces

2.2 USB Port

The USB Port of the instrument is used for battery charging. It is shown in Figure 3. To charge the batteries, plug the power adapter into the USB Port.

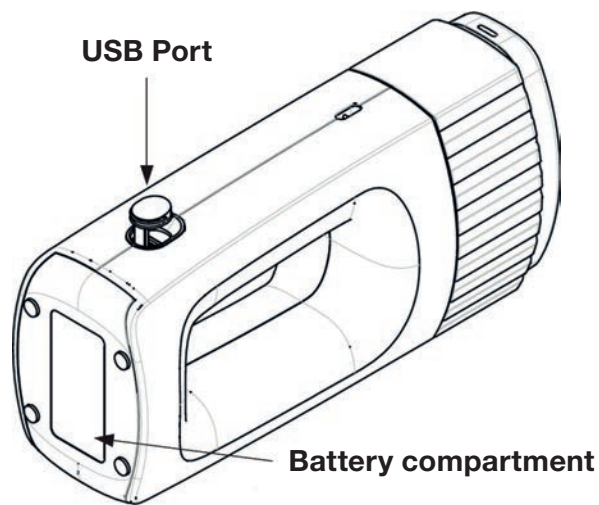


Figure 3: USB charging port and battery compartment

2.3 Screen Panel

The two main areas of the screen are shown in Figure 4: the Status Area with Battery Status, BLE (Bluetooth) Status and the Message Area.

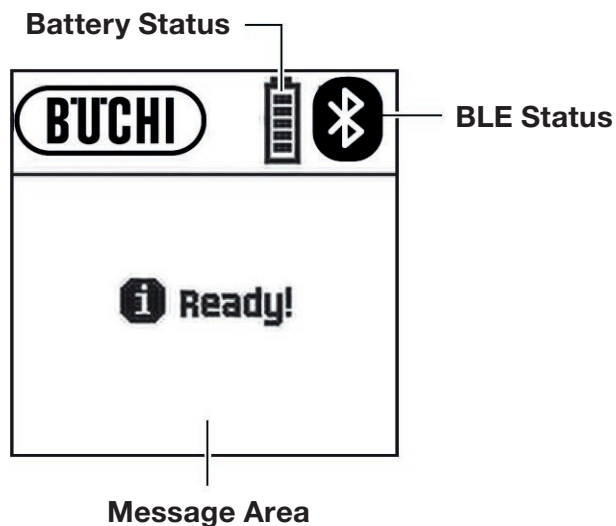


Figure 4: Screen panel overview

2.3.1 Stored Scans

When the instrument is not connected to an app, the spectral data are stored in the instrument's local memory. The memory can store up to 999 spectra. The number shown on the screen indicates the number of stored spectra in the instrument.

2.3.2 Battery Status

The remaining battery capacity is shown as well as an indication of whether the Battery Charger is connected as illustrated in Figure 5.

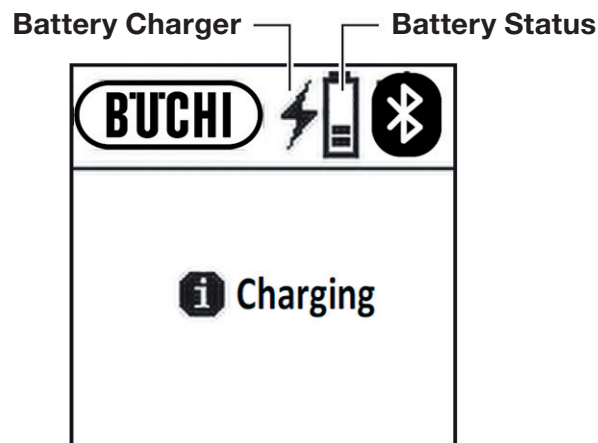


Figure 5: Battery status on the screen while instrument is being charged

2.3.3 Screen messages

Messages on the screen show operation modes or confirm operation steps during a material scan as illustrated in Figure 6.

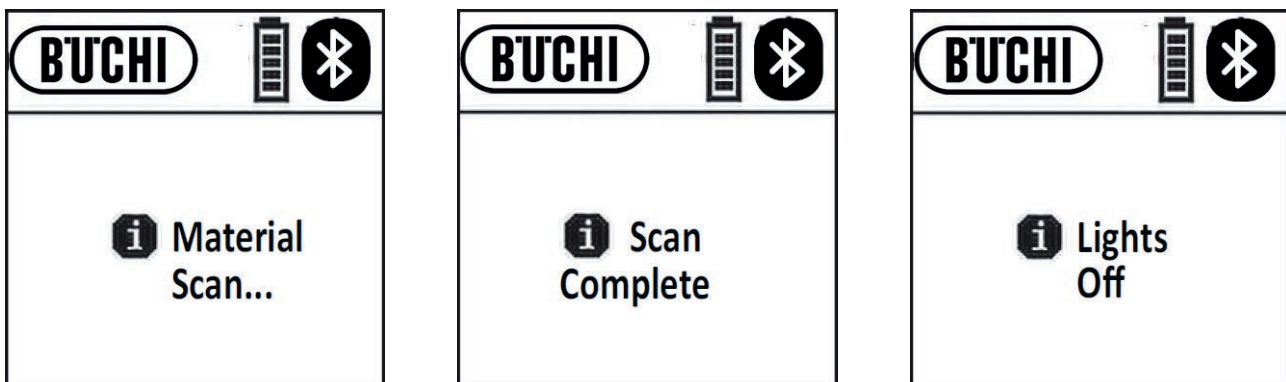


Figure 6: Messages on the screen during material scan

3 Powering the Instrument

3.1 Charger / Battery Powered Operation

The instrument is powered by two replaceable 18650 batteries with 3400 mAh nominal capacity. The batteries are already installed in the instrument for out-of-the-box operation. The instrument also comes with a USB charger with power delivery (PDO), capable of powering the instrument to charge and scan simultaneously, irrespective of the battery status. The specifications of the charger are summarized in the table below:

Description	Universal AC/DC USB C PD External Wall Mount (Class II) Adapter				
Input Voltage	100 VAC ~ 240 VAC				
Frequency Range	50 Hz ~ 60 Hz				
Input Current	1.2 A				
Output Voltages (PDO)	5V	9V	12V	15V	20V
Rated Output Current (max)	3A	3A	3A	2.4A	1.8A
Power Output (max)	36 W				
Form	Wall Mount (Class II)				
Plug	NA / EU				
Recommended Models	Qualtek : QFWC-45-20-USCR Globtek : GTM96181-36PD-PPS				

Notes:

- You can expect that the charging speed will be slower if an off-the-shelf standard 5 V USB charger is used. In addition, performing measurements will only be possible if the batteries are sufficiently charged.

3.2 Battery Replacement

WARNING: Risk of explosion if batteries are replaced by an incorrect type. Dispose of used batteries according to battery manufacturer's instructions.

Follow these steps to replace the batteries:

- Unscrew four screws in the battery cover at the bottom of the instrument (see Fig. 7).
- Remove the battery cover.
- Remove and discard the used batteries.
- Prepare two identical batteries from a well-known battery manufacturer, preferably fully charged.
- Insert new batteries in the battery compartment and make sure that the “-” side of each battery is placed at the terminal with a spring.
- Close and screw down the battery cover.
- Turn on the instrument.

Notes:

- In case batteries are not charged, the instrument may not be able to boot. Please connect the charger and wait until the instrument is charged.

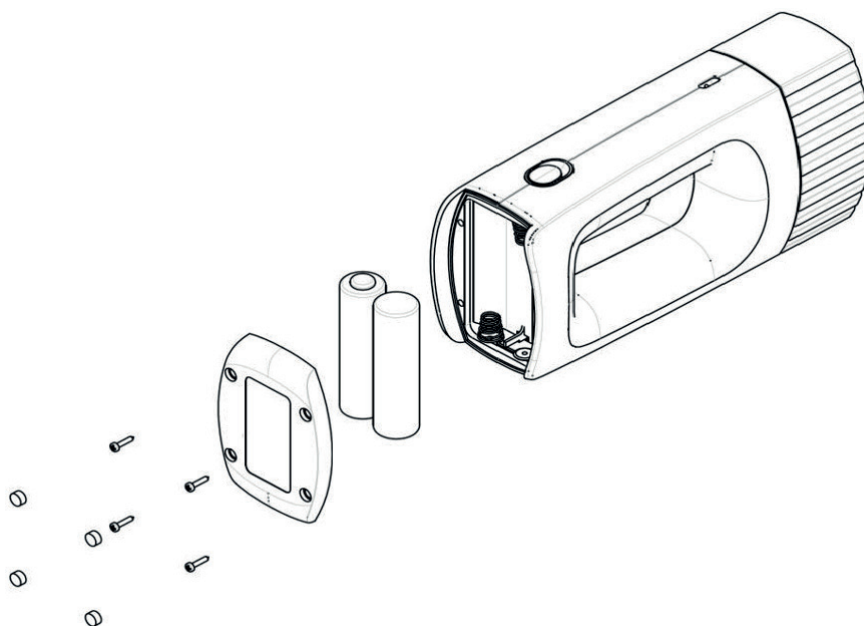


Figure 7: Battery replacement process

4 Sample Interface

The instrument's design allows for multiple ways to interface with a sample. The instrument can be used in a point and shoot mode, the sample can be placed on top of the instrument, or the instrument can be placed on the top of the sample. The different sample interfaces are illustrated in Figures 8 and 9.

Important: in all cases, the user must ensure that the sample is in contact with the optical window.

4.1 Point & Shoot

- Hold instrument in hand.
- Point and scan while ensuring that the optical window is pressed against the sample.

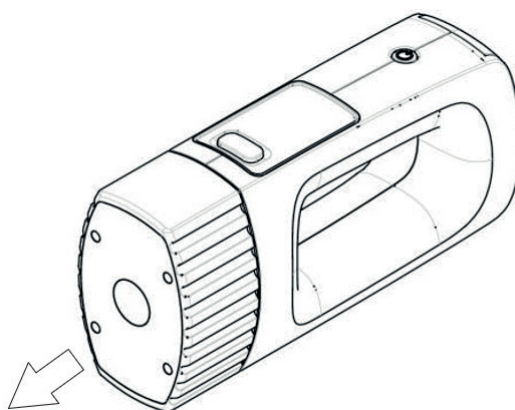


Figure 8: Instrument used with point-and-shoot interface.

4.2 Sample on Top of Instrument

- Place the instrument on a flat surface, with the optical window facing up.
- If the sample is a large solid item, place it on top of the instrument and make sure it is centered with the optical window.
- If the sample is a powder, grain, or loose product, a sample container will be required. In these cases, please contact supportnir@bucher.com to discuss appropriate container options and sample setup for successful scanning.

4.3 Instrument on Top of Sample

- Place the sample on a flat surface.
- Set the instrument on top of the sample and scan.

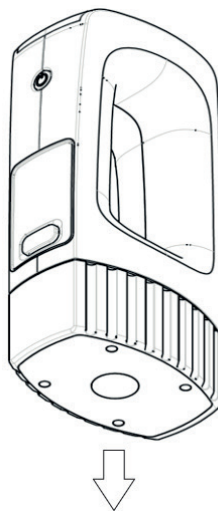


Figure 9: Instrument on top of sample

5 Power & Connection States

The instrument has five main states:

Power Off, Ready to Connect, Connected and Disconnected.

The description of each state is detailed below:

1. **Power Off:** A long press on the Power button turns off the instrument. It is recommended to keep the instrument in this state when not in use to conserve battery.
2. **Ready to Connect:** This is the initial state when the instrument is turned on. When in this state, the instrument will be discoverable by external mobile devices nearby to make a Bluetooth connection. The instrument stays in this state for two minutes and then automatically moves to the “Disconnected” state if no connection is established with an external mobile device. To return to “Ready to Connect” state, press the Power button briefly.
3. **Connected:** This is the main state during the Bluetooth-connected operation mode. In this state, the instrument is turned on and connected to a mobile device via Bluetooth. It is ready to take scans either using the mobile application or the Scan button on the instrument.

4. **Disconnected:** When the instrument is turned on but not connected to any external mobile device for two minutes, it automatically moves to this state to save power. In this state, the instrument will **not be discoverable** when your mobile devices tries to find nearby Bluetooth connections. To return to “ready to connect” state, press the Power button briefly.

The Power and Scan buttons control the instrument transitions between these states as described in Section 2.1.

6 Firmware Update

6.1 Firmware Update Procedure

NOTICE: Ask your administrator resp. IT department for assistance.

Observe the following instructions:

- Ensure that the instrument and mobile device have sufficient battery power or are connected to a battery charger.
- Carry out the firmware update during off days or off-peak hours with low internet traffic.
- In case of problems, contact: supportnir@buchi.com

Updating the firmware (FW) of the instrument can be done through the mobile app. The firmware itself is supplied by BUCHI. Here is the procedure than needs to be done in order to perform a FW update:

5. The instrument should be plugged to the charger in advance and the battery charged to 100%.
6. The Scan application should be open and the mobile device should be connected to the internet.
7. Press the gear button in Home tab and choose from the menu “Scanner Firmware” then choose “Firmware Update”.
8. The Scan application will search for updates.
9. Once the firmware update is complete, the instrument will be turned off automatically and the Scan application will be disconnected.

6.2 Restore Default Firmware

Restoring the default firmware of the instrument can be done through the mobile app. This action brings the instrument’s FW back to the one that was originally flashed during the production. To restore FW, follow the instructions in 6.1.1 above but, in Step 3, choose “Restore Default Firmware.”

7 Error Codes

User related error codes range from 1 to 255. The detailed description of these error codes is shown in the table below.

Error Code	Error Name	Error Description	User Recommended Action(s)
1-127	-	Core sensor errors	Restart scanner and retry the action
128	NS_DATA_READY_TIMEOUT	Internal sensor is not responding to the scanner	Restart scanner and retry the action
129	NS_BACKGROUND_NOT_VALID	No valid calibration measurement available	Calibrate scanner
130	NS_BACKGROUND_NOT_FOUND	No valid calibration measurement available	Calibrate scanner
131	NS_BACKGROUND_TEMPERATURE_EXCEEDED	Difference between current temperature and last calibration temperature exceeds 10°C	Calibrate scanner
132	NS_PSD_LENGTH_INVALID	Sensor returned empty data	Restart scanner and retry the action
133	NS_DISCONNECTED_SENSOR_ERROR	Internal sensor has a problem	Restart scanner and retry the action
134	NS_TEMPERATURE_ZERO_ERROR	Internal temperature sensor returned zero reading	Restart scanner and retry the action
135	NS_FAULTY_SENSOR_ERROR	Internal sensor failure	Restart scanner and retry the action while charger is connected
136	NS_CALIBRATION_FOLDER_LENGTH_INVALID	Internal Sensor Calibration data failure	Restart scanner and retry the action
137	NS_INVALID_OPERATION_ID	Internal Sensor wrong/unsupported operation	Restart scanner and retry the action
138	NS_CALIBRATION_MODE_INACTIVE	Internal Sensor calibration mode is inactive	Restart scanner and retry the action
139	NS_WVL_CORR_FAILED	Internal Sensor Wavelength Correction failure	Restart scanner and retry the action
140	NS_CONT_NO_VALID_REFERENCE	No valid reference measurements found in rotator continuous scanning mode	Restart scanner and retry the action
141	NS_CONT_NO_VALID_SAMPLE	No valid sample measurements found in rotator continuous scanning mode	Restart scanner and retry the action
142	NS_SCAN_PARAMS_INVALID	Internal sensor invalid parameters	Restart scanner and retry the action
143	NS_FLASH_STORAGE_NOT_FOUND	Internal sensor flash error	Restart scanner and retry the action
144	NS_WLN_CORR_COMBINED_SEQUENCE_CALIBRATION_WELLS_NOT_EXISTENT	Internal sensor unified wavelength correction material peaks not found	Restart scanner and retry the action
148	OPEN_READ_FILE_ERR	Error in opening file for reading	1. Erase scanner memory 2. Restart scanner and retry the action
149	OPEN_WRITE_FILE_ERR	Error in opening file for writing	1. Erase scanner memory 2. Restart scanner and retry the action
150	READ_FILE_ERR	Error in reading file	1. Erase scanner memory 2. Restart scanner and retry the action
151	WRITE_FILE_ERR	Error in writing file	1. Erase scanner memory 2. Restart scanner and retry the action
152	SCAN_NUM_FILE_NOT_EXIST	Scan numbers file does not exist	1. Erase scanner memory 2. Restart scanner and retry the action
153	SCAN_FILE_OUT_OF_RANGE	Scan file is out of range of the stored scan files	1. Erase scanner memory 2. Restart scanner and retry the action
154	SCAN_FILE_MAX_EXCEEDED	Maximum number of scan files is exceeded	1. Erase scanner memory 2. Restart scanner and retry the action
155	CONFIG_FILE_OPENING_ERROR	Failed to open config file	1. Erase scanner memory 2. Restart scanner and retry the action
156	CONFIG_FILE_LENGTH_ERROR	Mismatch in config file length	1. Erase scanner memory 2. Restart scanner and retry the action
157	CONFIG_FILE_PARAMETER_EXTRACTION_ERROR	Parameter extraction from config file returned error	1. Erase scanner memory 2. Restart scanner and retry the action
158	UNCHARTED_LOCATION_ERROR	Wrong location is being accessed in flash memory	1. Erase scanner memory 2. Restart scanner and retry the action
159	MEMORY_FULL_ERROR	Flash is full	1. Erase scanner memory 2. Restart scanner and retry the action
160	TIME_SET_ERROR	Setting timezone failed	1. Erase scanner memory 2. Restart scanner and retry the action

Error Code	Error Name	Error Description	User Recommended Action(s)
161	DEBUG_FILE_MAX_EXCEEDED	Max number of debug files has been reached	1. Erase scanner memory 2. Restart scanner and retry the action
162	BKGND_DEBUG_NUM_FILE_NOT_EXIST	Debug metadata file for BG measurements is missing	1. Erase scanner memory 2. Restart scanner and retry the action
163	ABSRB_DEBUG_NUM_FILE_NOT_EXIST	Debug metadata file for Absorbance measurements is missing	1. Erase scanner memory 2. Restart scanner and retry the action
164	ALL_TAKEN_SCANS_DATA_FILE_NOT_EXIST	Debug metadata file is missing	1. Erase scanner memory 2. Restart scanner and retry the action
165	SPIFFS_CHECK_FAILED	Flash filesystem check failed	1. Erase scanner memory 2. Restart scanner and retry the action
166	MEMORY_BUSY_ERROR	Flash is busy error	1. Erase scanner memory 2. Restart scanner and retry the action
178	BR_TEMP_COMP_DATA_READY_TIMEOUT	Reading BR data failed	Restart scanner and retry the action
180	LOW_BATTERY_SCAN_ERROR_SCANNING	Trying to take a scan with battery only while at 3% or below	Connect charger
181	LOW_BATTERY_SCAN_ERROR	Trying to take a scan with battery only while at 3% or below	Connect charger
182	GAUGE_SELF_TEST_FAILED	Gauge is not working as expected	Connect original charger
183	CHARGER_SELF_TEST_FAILED	Charger is not working as expected	Connect original charger
184	LOW_BATTERY_SHUT_DOWN_ERROR	Battery is too low. Scanner needs to be turned off	Connect charger
185	CHARGER_DISCONNECTED_ERROR	Charger is disconnected	Connect charger
186	OTA_INIT_FAILED	Failed to begin FW update	Restart scanner and retry the action
187	OTA_STEP_FAILED	Failed to send FW update	Restart scanner and retry the action
188	OTA_END_FAILED	Failed to end FW update	Restart scanner and retry the action
189	OTA_RESTORE_FAILED	Failed to restore default FW	Restart scanner and retry the action
191	HIGH_TEMP_ERROR	Scanner temperature exceeds 50 C	Cool down scanner
192	TEMP_NOT_STORED_ERROR	Scanner temperature is not calibrated	Call Support
200	CELL_UNDER_VOLTAGE_ERROR	Battery cell voltage is too low	Connect charger
201	CELL_OVER_VOLTAGE_ERROR	Battery cell voltage is too high	Remove charger
202	OVER_CURRENT_IN_CHARGE_ERROR	Charging current is too high	Remove charger
203	OVER_CURRENT_IN_DISCHARGE_ERROR	Discharging current is too high	Connect charger
204	OVER_LOAD_IN_DISCHARGE_ERROR	Discharging load is too high	Restart scanner and retry the action
205	SHORT_CIRCUIT_IN_CHARGE_ERROR	Short circuit during charging	1. Remove charger 2. Restart scanner and retry the action
206	SHORT_CIRCUIT_IN_DISCHARGE_ERROR	Short circuit during discharging	Restart scanner and retry the action
207	OVER_TEMPERATURE_IN_CHARGE_ERROR	Over-temperature during charging	Cool down scanner
208	OVER_TEMPERATURE_IN_DISCHARGE_ERROR	Over-temperature during discharging	Cool down scanner
209	OVER_TEMPERATURE_IN_FET_ERROR	Over-temperature in battery management system	Cool down scanner
210	UNDER_TEMPERATURE_IN_CHARGE_ERROR	Under-temperature during charging	Warm up scanner
211	UNDER_TEMPERATURE_IN_DISCHARGE_ERROR	Under-temperature during discharging	Warm up scanner
212	SBS_WATCH_DOG_ERROR	Battery management system was resetted	Restart scanner and retry the action
213	PRE_CHARGE_TIMEOUT_ERROR	Pre-charge timeout	Restart scanner and retry the action
214	FAST_CHARGE_TIMEOUT_ERROR	Fast charge timeout	Restart scanner and retry the action
215	OVER_CHARGE_ALERT_WARNING	Over charge warning (not error)	No action
216	OVER_CHARGE_ERROR	Battery is over charged	Remove charger
217	OVER_CHARGING_VOLTAGE_ERROR	Battery voltage is over charged	Remove charger
218	OVER_CHARGING_CURRENT_ERROR	Battery current is over charged	Remove charger
219	OVER_PRE_CHARGING_CURRENT_ERROR	Pre-charge current is too high	Remove charger
220	PRES_BIT_LOW_ERROR	Battery management system detected an error	Restart scanner and retry the action
221	XCHG_ACTIVE_ERROR	Battery management system stopped charging	Remove charger
222	XDISCHG_ACTIVE_ERROR	Battery management system stopped discharging	Connect charger

Error Code	Error Name	Error Description	User Recommended Action(s)
223	CAL_MODE_ENABLED_ERROR	Battery management system is in calibration mode	Restart scanner and retry the action
224	CAPACITY_MISMATCH_ERROR	Mismatch in Gauge capacity	Restart scanner and retry the action
225	GAUGE_REGISTER_MISMATCH_ERROR	Mismatch in Gauge register values	Restart scanner and retry the action
231	GAUGE_PERSISTENT_COMMUNICATION_ERROR	Communication failure between scanner and battery management system	Restart scanner and retry the action
232	GAUGE_COMMUNICATION_ERROR	Communication failure between scanner and battery management system	Restart scanner and retry the action
233	THERMAL_CORRECTION_ERROR	Error in thermal management	Restart scanner and retry the action
234	CHARGER_COMMUNICATION_ERROR	Communication failure between scanner and battery charger	Restart scanner and retry the action
235	NullPointerException	Null Pointer exception	Restart scanner and retry the action
240	GAUGE_READ_FLASH_FAILED	Failed to read battery management system flash contents	Restart scanner and retry the action
251	TOO_MANY_REQUESTS	Requests queue overflow	Restart scanner and retry the action
252	NS_SENSOR_BUSY	Sensor busy error	Restart scanner and retry the action
255	NS_SENSOR_TIMEOUT	Sensor timeout error	Restart scanner and retry the action

8 Precautions

- Avoid long periods of exposure for the sample to infrared light coming out of the optical window as heating may occur. Heating may affect the sample's surface.
- Avoid direct eye contact with the light emitted from the optical window.
- The optical window on the instrument must remain clean in order to perform accurate measurements. Therefore, the instrument case includes several accessories to maintain your instrument. Periodically, the optical window should be cleaned with the included alcohol wipes and then any streaks should be removed with the included microfiber cloth. Once you've used all of the wipes included with your instrument, you can replace them with any non-abrasive, high-grade isopropyl alcohol wipes.
- When analyzing samples with your instrument, particles can stick to the instrument head and should be removed each time you reposition the instrument to take the next scan. For easy particle and dust removal, there is a combination brush and squeegee accessory included in your instrument case.
- Keep the reference tile (white reference material) in the protective cover of the instrument always clean and dry. Cleaning the reference tile before a reference scan is crucial for the measurement accuracy!
- To keep your instrument clean and protected, make sure to cover the head with the protective cover any time it is not in use.
- The instrument is tested to operate in a temperature range between –5 to +40 °C. Performance at other temperatures is not guaranteed.

CAUTION: Any changes or modifications not expressly approved by BUCHI could void the user's authority to operate the instrument.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the 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 and, if not installed and used in accordance with the instructions, 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 to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

9 Compliance Statement

9.1 United States of America

Supplier's Declaration of Conformity
47 CFR § 2.1077 Compliance Information
Unique Identifier: **BUCHI ProxiScout/NEO1001**

Responsible Party – U.S. Contact Information

BUCHI Corporation

19 Lukens Drive, Suite 400
19720 New Castle
United States

Tel + 1 302 652 3000
us-service@buchi.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

10 ProxiScout™ Instrument



10.1 Parts Overview



1. Light window
2. Bluetooth
3. Power button
4. Calibration tile
5. Screen

6. Scan button
7. Cover
8. USB-C Port
9. Lanyard

10.2 What is Included



1. Brush & squeegee
2. Microfiber cloth
3. Alcohol wipes
4. Lanyard
5. Protective cover with calibration tile

6. Instrument
7. Charger

10.3 Before Getting Started

1 Download your Scan app



Let's Login...



[Neospectra Scan App on the App Store](#)



[Neospectra Scan App on Google Play](#)

* If you haven't received your credentials yet, please contact us via email: supportnir@buchi.com

** If you are looking to develop your own application models, you'll need to download the Collect app. Scan the QR code:

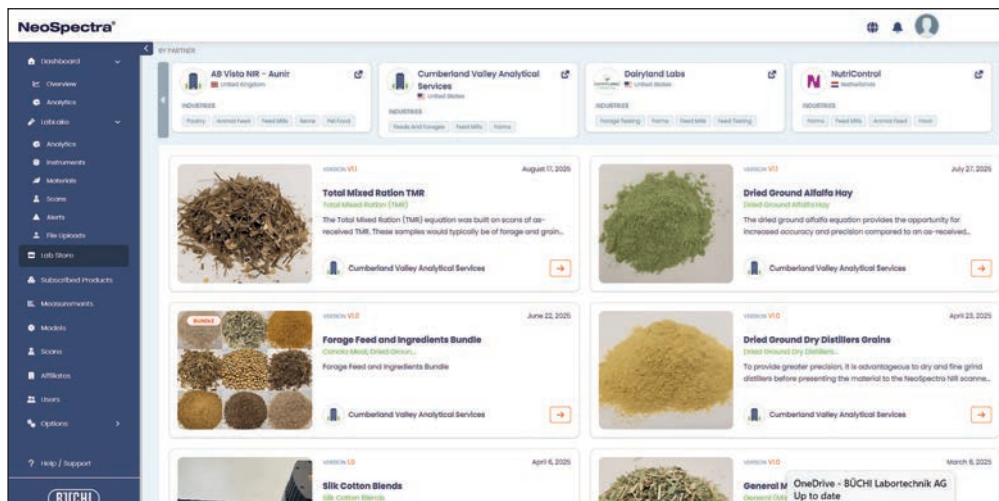


[Neospectra Collect App on the App Store](#)



[Neospectra Collect App on Google Play](#)

2 Get your models from the LabStore



Make sure you are subscribed to at least one of the hundreds of calibration models available on NeoSpectra LabStore.

* If you are part of a NeoSpectra Enterprise account, your admin may have already configured your models.

10.4 Get Started With Your First Measurement



11 ProxiScout™ Rotator



11084411 Rotator kit for ProxiScout™

11.1 Parts Overview



1. Sample cup
2. ON/OFF switch
3. USB-C port for charging
4. Charging Led
5. Upper clamp

6. Instrument*
7. Lower clamp
8. Stand
9. Rotator

* Rotator is a sample handling tool that can be ordered separately i.e. the instrument may not be included in the same package you have received.

11.2 What is Included

For easier packing and transport, the different parts of the rotator are originally assembled in two main compact parts.



1. Microfiber cloth
2. Charging cable

3. Compact part #2
4. Compact part #1

Compact Part #1



Base



Rotator

Compact Part #2



Background tile



Sample press



- Sample cup
- Protection lid

11.3 How to Assemble

1 Fix Rotator on top of instrument



Open upper clamp.



Slide Rotator on top of instrument.
Check if the instrument is pushed in
the Rotator completely.



Close upper clamp.
Make sure that the
Rotator sits completely
flat on the instrument.



Separate Rotator assembly.

START



2 Fix instrument inside Base (optional)



Open lower clamp.



Slide instrument inside holder.



Close lower clamp.

11.4 Prepare Sample Cup

1

Detach Protective cover.

2

Rotate Sample press to remove it outside the Sample cup.

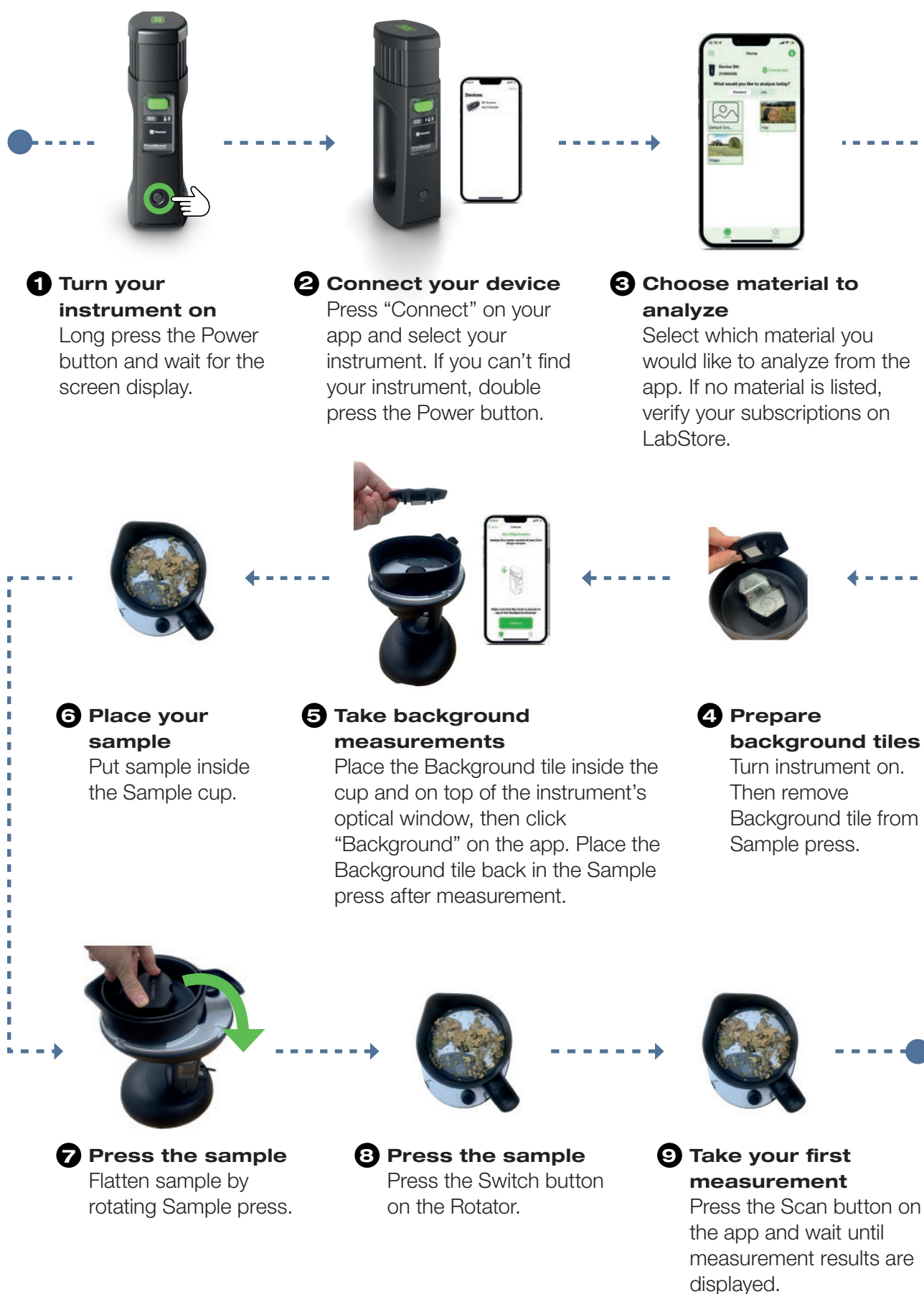
3

Make sure that the glass of the Sample cup is always clean before each measurement.

4

Place Sample cup on top of Rotator.
Check if Sample cup is mounted correctly.

11.5 Get Started With Your First Measurement



12 ProxiScout™ Powder Analysis Kit



11084426 Powder analysis kit for ProxiScout™

12.1 Parts Overview



1. Powder analysis kit
2. Instrument
3. Powder sample dish holder
4. Powder sample dish
5. Powder sample dish weight

12.2 What is Included



1. Calibration tile for powder analysis kit
2. Powder sample dish holder
3. Instrument
4. Three powder sample dishes
5. Powder sample dish weight

12.3 How to Assemble

Attach the Powder dish holder on the top of the instrument, making sure it is completely inserted on to the sample stage of the instrument.

1

Attach Powder dish holder.

2

Insert Powder dish.
If necessary, apply some pressure to ensure that the Powder dish sits on the Optical window.

12.4 Get Started With Your First Measurement



13 ProxiScout™ Liquid Analysis Kit



11084417 Liquid analysis kit for ProxiScout™

13.1 Parts Overview



1. Liquid analysis kit
2. Instrument*
3. Vial holder
4. Vial
5. Transreflectance stamp

* ProxiScout™ Liquid Analysis Kit is a sample accessory that can be ordered separately or as part of a package with the instrument. If ordered separately, a Transreflectance stamp of the appropriate pathlength should be ordered separately.

13.2 What is Included

The Transreflectance kit is composed of 3 parts.



1. Vial holder
2. Vials
3. Transreflectance stamp*

* There are 5 different options for Transreflectance stamps depending of pathlength ($X = 0.25, 0.5, 1.0, 2.0$ or 5.0).
Your kit would include at least one.

13.3 How to Assemble

1

Slide Vial holder on top of instrument.

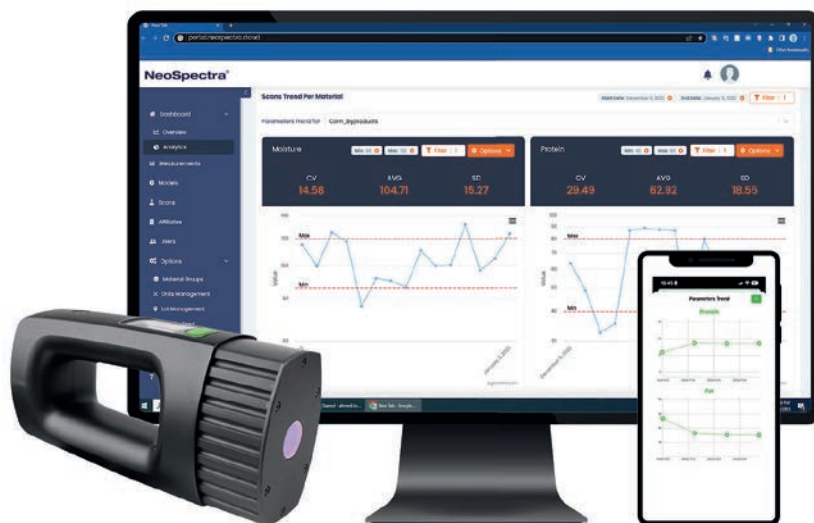
2

Place the empty Vial in the Vial holder's groove. If necessary, apply some pressure to ensure that the Vial sits on the Optical window.

13.4 Get Started With Your First Measurement



14 Where Can I Find My Results?



All your measurement results are saved on your mobile device and your NeoSpectra Cloud Portal.

15 Spare Parts

ProxiScout™ Spare Parts

- 11084405 Alcohol wipes, 5 pcs.
- 11084406 Microfiber cloth for ProxiScout™
- 11084407 Squeegee and brush for ProxiScout™
- 11084408 Charging cable for ProxiScout™
- 11084409 Cleaning kit for ProxiScout™
- 11084410 Rechargeable 18650 batteries for ProxiScout™, 2 pcs.
- 11085082 ProxiScout™ cover with calibration tile

Rotator Spare Parts

- 11084413 Rotator base / ProxiScout™ base
- 11084414 Rotator cup kit
- 11084416 Rotator donut cup
- 11084415 Rotator charging cable
- 11085083 Calibration tile for rotator cup

Powder Analysis Spare Parts

- 11084427 Powder sample dish
- 11084428 Powder sample dish holder
- 11084430 Powder sample dish weight
- 11084429 Calibration tile for powder analysis kit
- 11084413 ProxiScout™ base

Liquid Analysis Spare Parts

- 11084425 Vials for ProxiScout™, set of 186 pcs.
- 11084419 Vial holder for ProxiScout™
- 11084413 ProxiScout™ base

Transflectance accessories for ProxiScout™:

- 11084420 Transflectance, OPL 0.25 mm
- 11084421 Transflectance, OPL 0.5 mm
- 11084422 Transflectance, OPL 1 mm
- 11084423 Transflectance, OPL 2 mm
- 11084424 Transflectance, OPL 5 mm

Notes



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