REFLEX™
INTELLIGENCE ON DEMAND

REFLEX IQ-LOGGER™
Quick User Guide

SOFTWARE V1.2

IMDEXHUB-IQ™ ENABLED

① Charge Battery

Battery Charger connector port

Orange light charge indicator
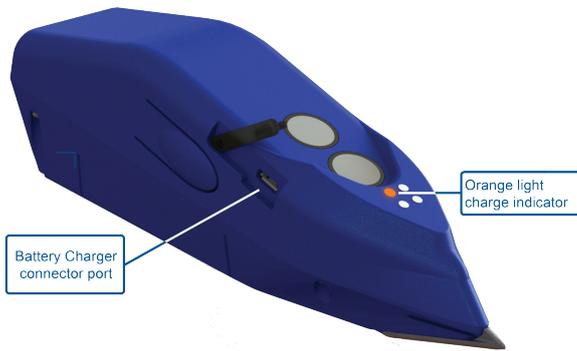
Plug in the supplied micro USB cable.
Orange light on: Battery charging.
Orange light turns off: Battery fully charged.

② Pair REFLEX IQ-LOGGER™ to computer

Turn on the device by squeezing both side buttons until the blue and green lights illuminate; enable Bluetooth on the computer.

③ Launch REFLEX IQ-LOGGER™ software
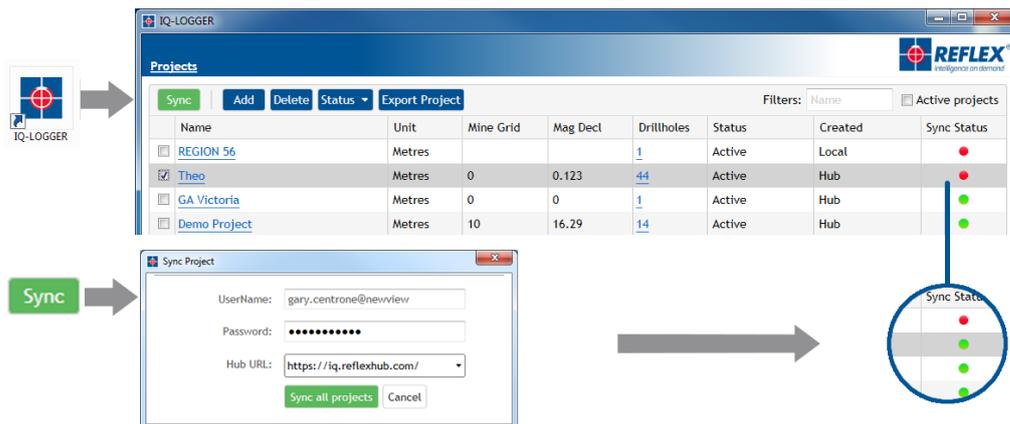
Double-click desktop icon to launch the REFLEX IQ-LOGGER™ app. The **Projects** screen displays.
Press the Sync button to transfer data between HUB and the REFLEX IQ-LOGGER™ software.

④ Add Project (in the app)

⑤ Add Drillhole (in the app)

Name
mag 4
Mag...
mag 4

OR

Drillholes
0

Add

Add/Edit Drillhole

Drillhole Name:	Max 50 Characters
Hole Type:	
Planned Dip:	Between -90° and 90°
Planned Depth (Metres):	Maximum 25000
True North Azimuth:	Between 0° and 360°
Magnetic Azimuth:	Between 0° and 360°

Save   Cancel

Red highlights are
mandatory fields

Name	Dip	TN Azi	Mine Azi	Mag Azi	Depth	Hole Type	Readings
MAG4-SF-0001	-85	15	15	75	1287	PQ	0

Save   Save

⑥ Configure Drillhole (in the app)

	Name	Dip	TN Azi	Mine Az	Mag Azi	Depth	Hole Typ	Reading	Status	Created	Sync Statu
	MAG4-SF-0001	-85	15	15	15.118	1287	PQ	0	Active	Local	●

Add   Edit   Delete   Status ▾   Export Drillhole   Filters: Name   ☐ Active drillholes

Name
MAG4-SF-0001

Reading
0

Configuration tab

IQ-LOGGER

REFLEX®

Projects | Drillholes for Claymore Alley | RPG0033

Logging   Verification   Configuration

Drillhole

Name:	RPG0033
Planned Depth (Metres):	500
Planned Dip:	-60
True North Azimuth:	45
Mine Grid Azimuth:	90
Magnetic Azimuth:	48.156
Logger Name:	Max 50 Characters Edit
Core Alignment:	Bottom of Core Edit

Save   Cancel

Feature List: Edit
☑ Bedding
☑ Band
☑ Cleavage
☑ Fault
☑ Fracture

Edit **Feature List**
as required

Logger Name is
mandatory

Select **Core Alignment**
method from dropdown

IQ-LOGGER Device

REFLEX IQ-LOGGER - 3481F413CB7F   Update Firmware

0%   ● Unable to connect to REFLEX IQ-LOGGER - 3481F413CB7F

Save   Save

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① Turn on REFLEX IQ-LOGGER™

Press and hold both side buttons until the green and blue lights turn on. The red light should start to flash.

A flashing green light indicates that battery charge is less than 20%. If the battery charge is <5% the device will not turn on and shows a red LED. Charge the device for at least an hour.

② Stabilise gyroscopes
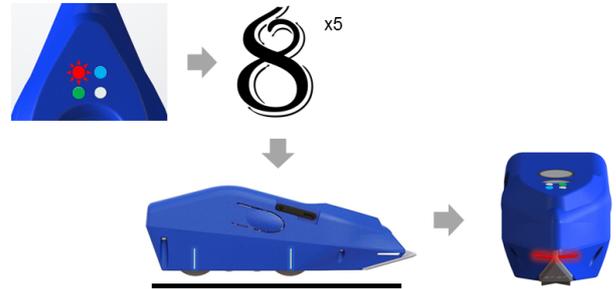
While the red light is flashing, wave the device in a figure-eight pattern 5 times, then sit it on a flat surface until the red light extinguishes and the laser illuminates.

③ Align device

Downhole

core orientation line
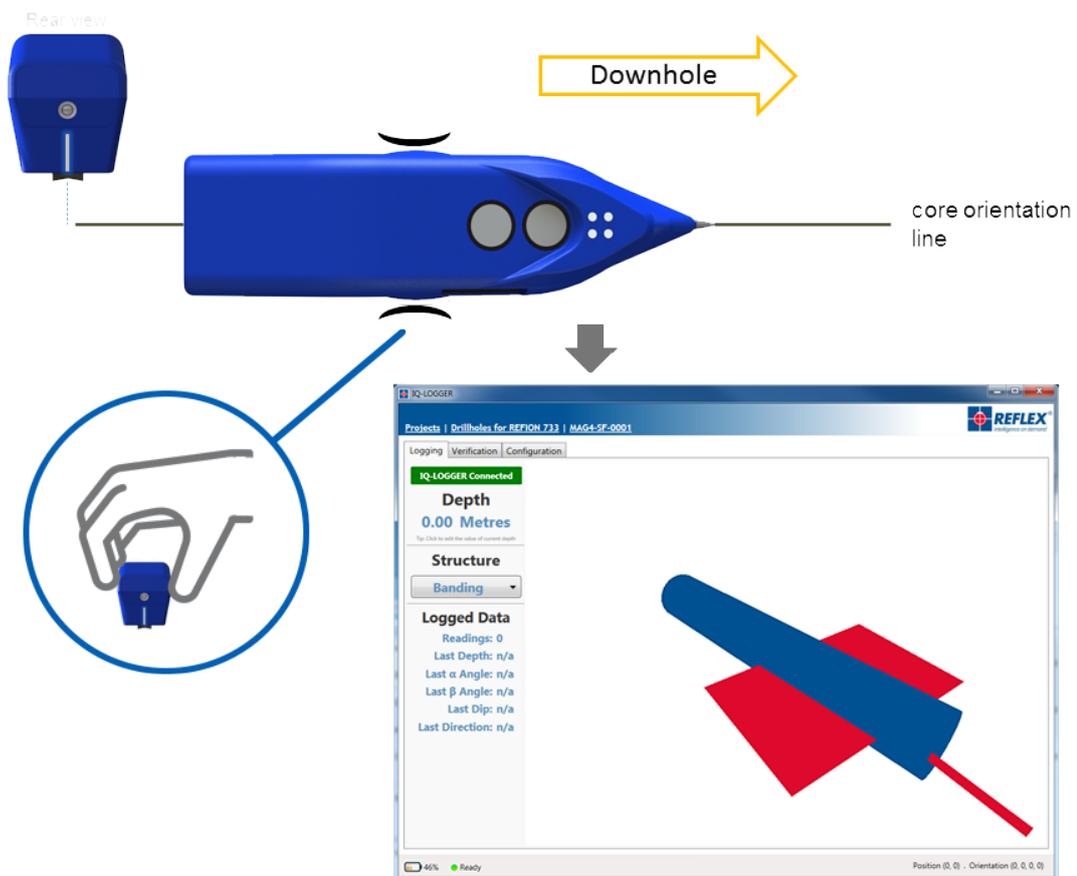
Place the device on the drillhole orientation line, ensure it is pointing **downhole** then press either side button to align.

If the IQ-LOGGER firmware is older than V1.5 then only press ONE side button to align.

① Set depth and structure type

Set the start depth

Select the structural feature from the dropdown.

The rear top button can be used to scroll through this list.
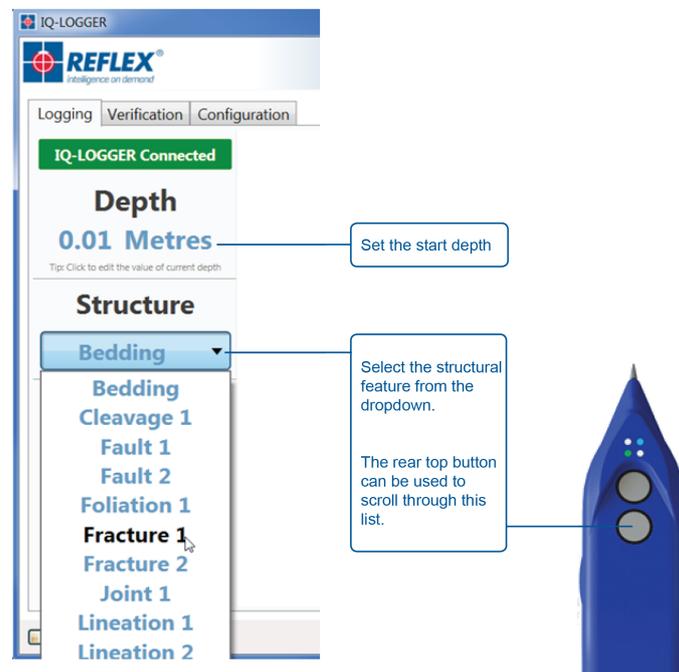
> To record a lineation, you must first record the planar feature it lies on.

② Move device downhole

Roll the REFLEX IQ-LOGGER™ device down the core along the orientation line (check that the depth increases in the software interface).

③ Align with first structure

Stop rolling the device when the front wheel alignment marker is inline with the first structure to measure.

④ Measure first structure

Lift the REFLEX IQ-LOGGER™ device to align the laser with the structure, click the front button on top of the device to record the measurement.

⑤ Move to second structure

Slide the device back on the core with the front wheel alignment marker inline with the first structure, then slide downhole to the next structure; ensure it is aligned with the drillcore orientation line, click either side button.
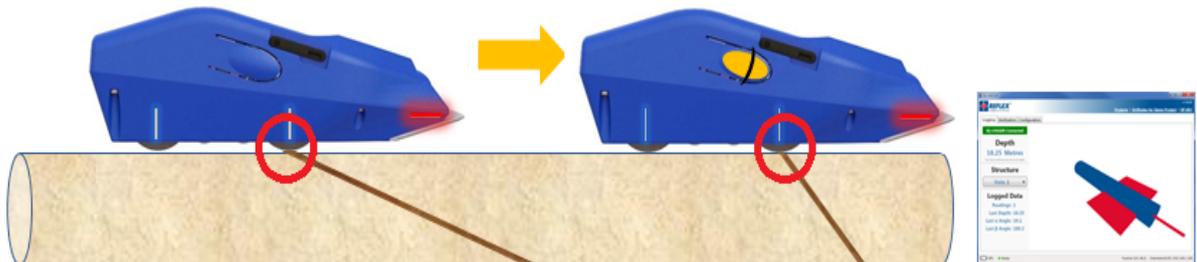
⑥ Select structure type

Change the structure type setting on the device by scrolling through the list using the Back button on top of the device.

⑦ **Measure next structure**

Lift the REFLEX IQ-LOGGER™ device to align the laser with the structure, click the front button on the top of the device to record the measurement.
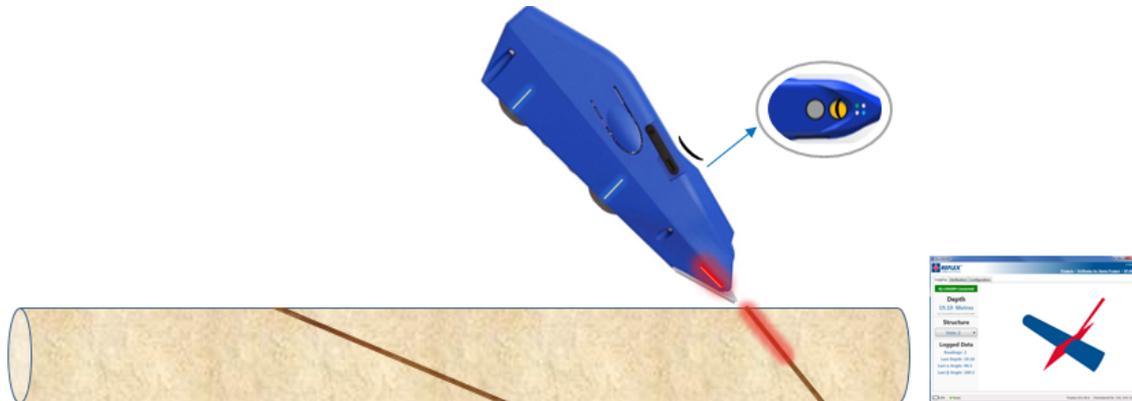
If the structure is a linear feature, first measure the angle of the plane it lies on, then measure the linear structure by aligning the laser with the line on the plane surface.
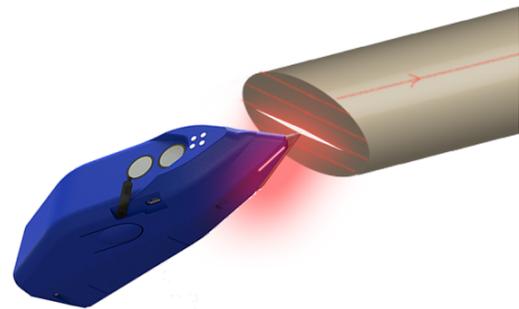
> 📋 Press the front button on the top of the device twice (quickly) to set the QA Flag for that reading.

⑧ **Take measurements for all structures of interest**

Repeat steps 5 to 7 to take measurements for all structures of interest.

⑨ **Sync** to upload to Hub

⑩ **Turn off device**
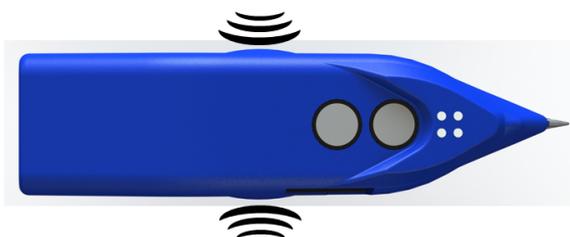
Press and hold both side buttons until the green and blue lights extinguish. The REFLEX IQ-LOGGER™ is now turned off.

① Verify Data

The red star indicates the drillhole position.
The legend describes the feature for each shape and colour.

Set the depth filter to display only readings of interest.

Check the recorded data. You can edit the following details:
- Delete bad recording: select the recording and right click, then select Delete
- Set structural features: click the field and select the new feature from the dropdown list (note that you cannot change linear readings to planar and vice versa)
- If custom lists have been synced from IMDEXHUB-IQ™, select additional meta data attributes in structural lists 2 and 3
- Edit the Depth: type a new depth into the field
- Set Movement: On lineation-type readings, select the Movement from the dropdown list
- Set QA flag: Set to on or off for any reading
- Edit Logger Name: Edit as required
- Enter Notes: Add notes by typing into the field

For more information, go to www.reflexnow.com/contact or contact your nearest REFLEX™office.