



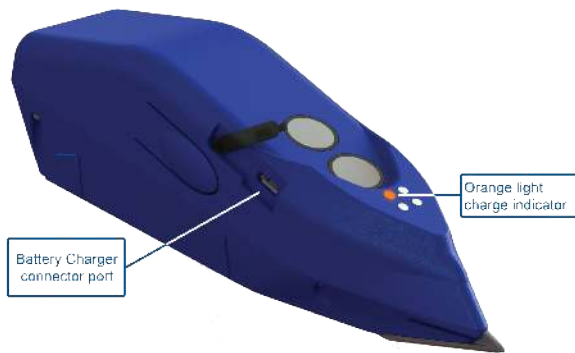
REFLEX IQ-LOGGERTM

Quick User Guide

SOFTWARE V1.2.2

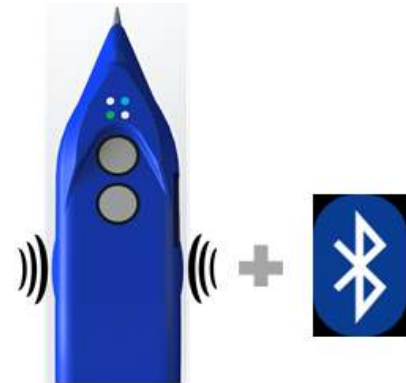
IMDEXHUB-IQTM ENABLED

① Charge Battery



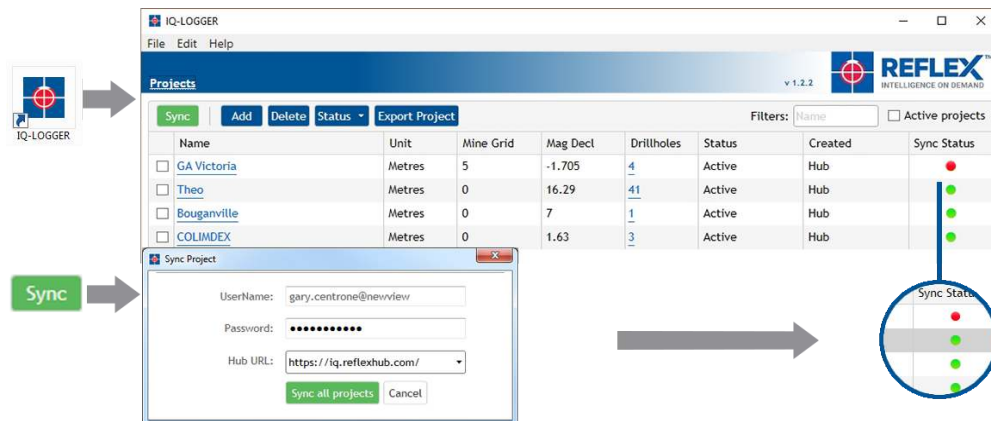
Plug in the supplied micro USB cable.
Orange light on: Battery charging.
Orange light turns off: Battery fully charged.

② Pair REFLEX IQ-LOGGER™ to computer



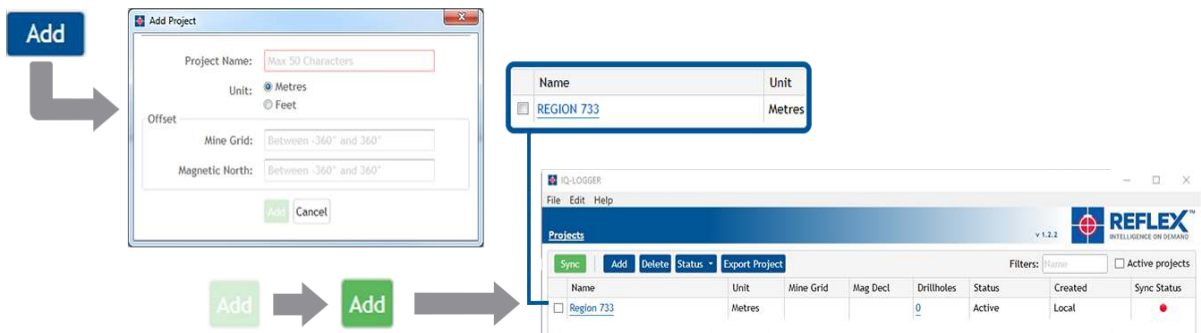
Turn on the device by squeezing both side buttons until the blue and green lights illuminate; enable Bluetooth on the computer.

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)



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5 Add Drillhole (in the app)

Sync **Add** **Delete** **Status** **Export Project**

Name	Unit	Mine Grid	Mag Decl	Drillholes	Status
REGION 733	Metres			0	Active

OR

Add/Edit Drillhole

Drillhole Name:

Hole Type:

Planned Dip:

Planned Depth (Metres):

True North Azimuth:

Magnetic Azimuth:

Save **Cancel**

Red highlights are mandatory fields

Save **Save**

Name	Dip	TN Azi	Mine Azi	Mag Azi	Depth	Hole Type	Readings	Status	Created	Sync Status
MAG4-SF-0001	-85	15	15	15.118	1287	PQ		Active	Local	

6 Configure Drillhole (in the app)

Add **Edit** **Delete** **Status** **Export Drillhole**

Filters: Active drillholes

Name	Dip	TN Azi	Mine Azi	Mag Azi	Depth	Hole Type	Reading	Status	Created	Sync Status
MAG4-SF-0001	-85	15	15	15.118	1287	PQ		Active	Local	

Configuration tab

Logger Name is mandatory

Select Core Alignment method from dropdown

Edit Feature List as required

Save **Save**

IQ-LOGGER

Projects | Drillholes for Region 733 | mag4 SF-0001

Logging | Ventilation | Configuration

Drillhole

Name: mag4 SF-0001

Planned Depth (Metres): 300

Planned Dip: 0°

True North Azimuth: 15

Mine Grid Azimuth: 15

Magnetic Azimuth: 15

Logger Name:

Core Alignment:

Twist List:

- Standing
- Backfill
- Clearance 1
- Clearance 2
- Contact 1
- Contact 2
- Contact 3
- Fault 1
- Fault 2
- Fault 3

Cancel

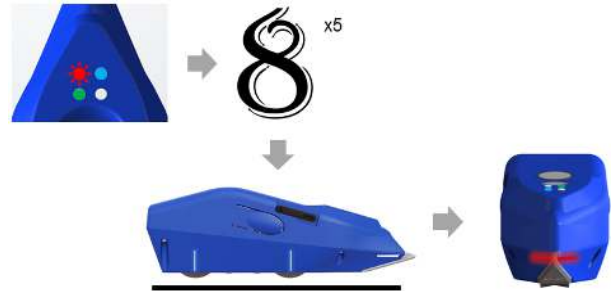
IQ-LOGGER Device: **Refresh List** **Update Firmware**

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.

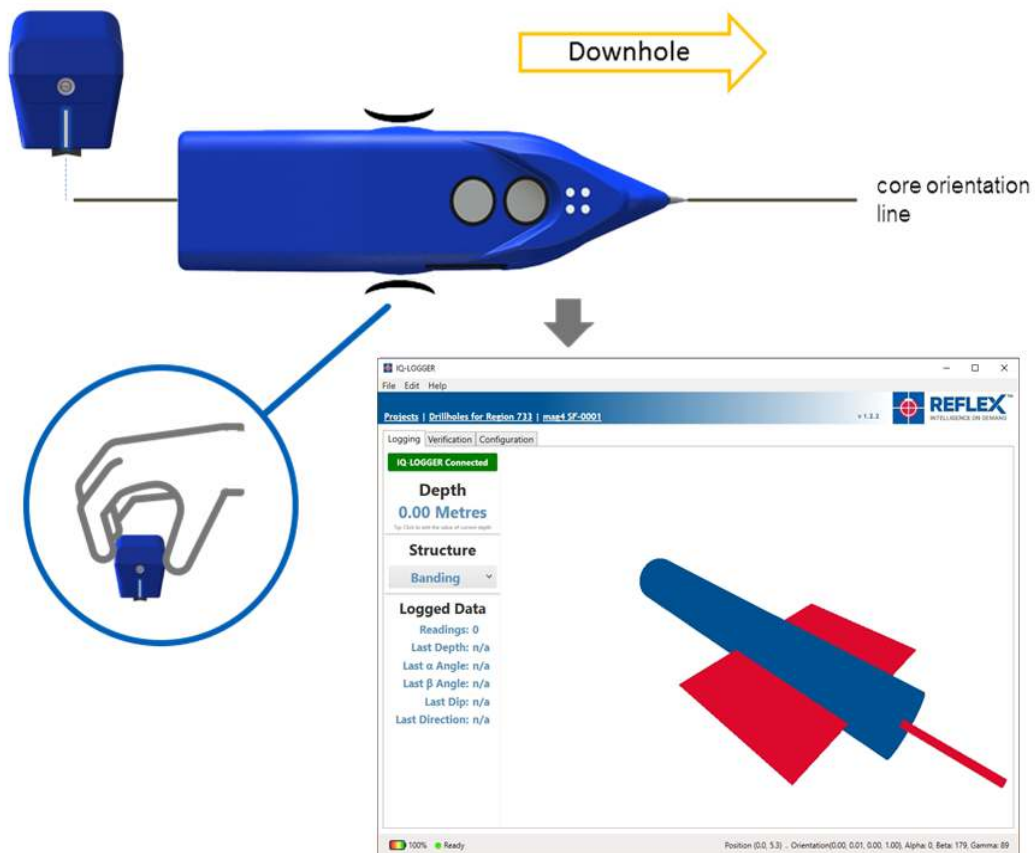
② Stabilise gyroscopes



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.

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.

③ Align device

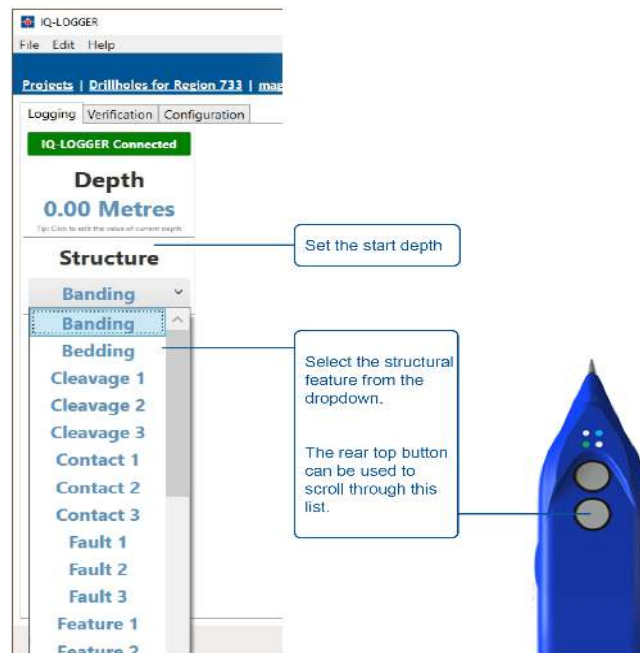


Place the device on the drillhole orientation line, ensure it is pointing **downhole** then quickly press both side buttons to align.



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

① Set depth and structure type



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.



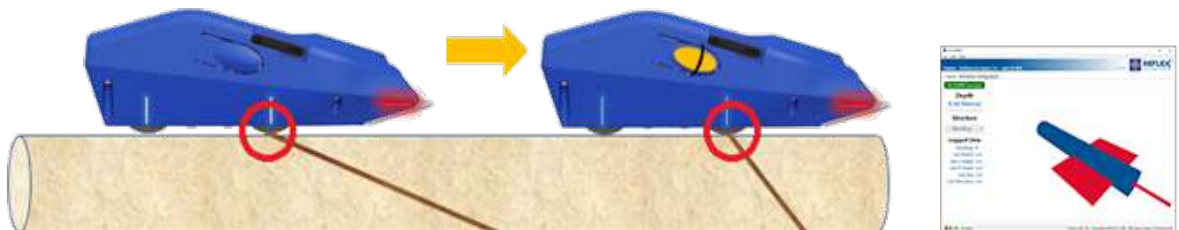
④ Measure first structure

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 in line with the first structure, then slide downhole to the next structure; ensure it is aligned with the drillcore orientation line, click either side button. If necessary, re-align the device on the orientation line.



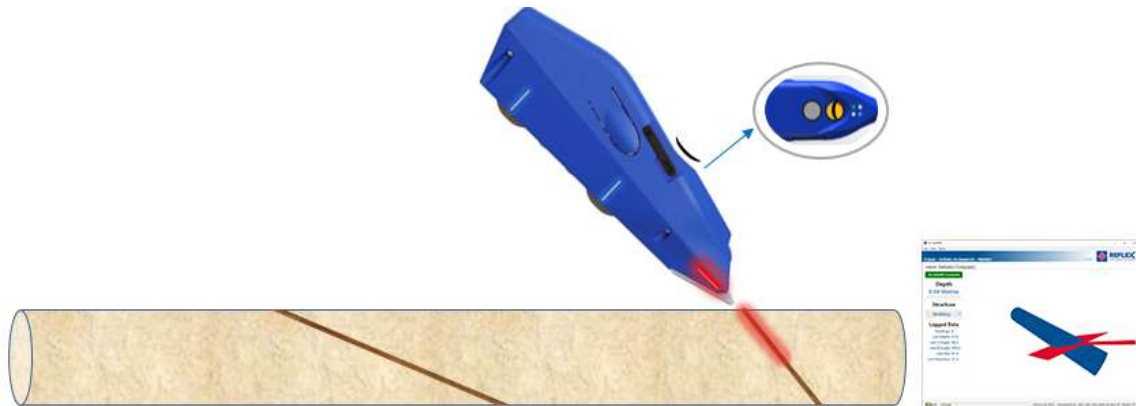
⑥ Select structure type

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

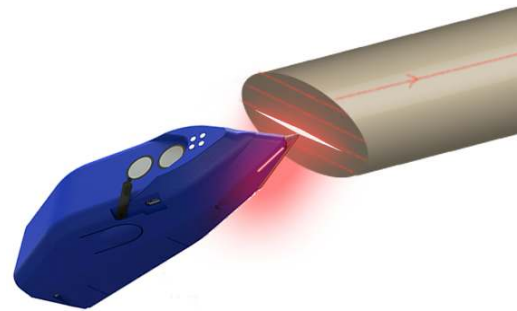


⑦ Measure next structure

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.



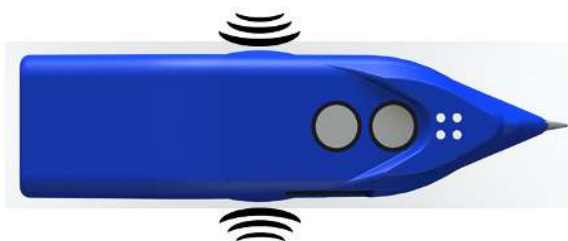
Press the front button on the top of the device twice (quickly) to set the QA Flag for that reading.

⑧ Take measurements for all structures of interest

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

⑨  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

<input type="checkbox"/>	No.	Structur	Structur	Structur	Depth	Dip	Direction	Alpha	Beta	Gamma	Core Al	Plane IC	Movem	QA Flag	Logger	Notes	Sync St
<input type="checkbox"/>	1	Bedding			0.01	28.9	287.3	31.8	189.8		Bottom c			<input type="checkbox"/>	SPS		●
<input type="checkbox"/>	2	Banding			0.01	57.5	322.7	12.1	223.3		Bottom c			<input type="checkbox"/>	SPS		●
<input type="checkbox"/>	3	Vein	Planar	White	0.01	88.4	337.4	9.6	69.4		Bottom c			<input type="checkbox"/>	SPS		●
<input type="checkbox"/>	4	Fault			0.01	50.4	212.6	20.2	136.3		Bottom c			<input checked="" type="checkbox"/>	SPS		●

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
- Core Alignment: change the orientation line position for the measurement
- 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

