Stick Reader

SDL 400S & 440S

OPERATING GUIDE

Light ring

Shearwell label

LCD screen

Blue light

Battery pack

Green button

Handle

End cap for battery access

The stick reader comes with four AA rechargeable batteries. Standard AA batteries can also be used.

Inserting batteries
Note: You will not lose your data when you remove the battery pack.

1. Open the stick reader by unscrewing the end of the red or blue handle. Use the white loop to pull out the battery pack.
2. Insert the batteries into the holder ensuring the positive and negative markings (+ / -) on the batteries match up with the (+ / -) on the holder.
3. Insert the battery pack with the green arrow and green circle facing the same direction as the green button on the reader. Ensure that the battery pack is aligned with the grooves inside the stick reader.
4. Replace the end of the reader by screwing the cap on. *Warning: Do not over-tighten the battery cap as this could damage the thread.*

Battery information

Check the battery level

The battery level indicator shows very briefly on the start-up screen when the stick reader is turned on. To check the level of the batteries when the stick reader is turned on, first turn it off, then turn it back on to see the start-up screen.

The stick reader should operate for at least eight hours on a fully charged set of batteries. For the first several hours the battery indicator will show *Good*. When the battery indicator first shows *Low* you should still have one or two hours of use left, but should plan to recharge or replace the batteries soon. A sign the batteries are getting low is the stick reader is unable to maintain a Bluetooth link to a printer or weigher. When the indicator shows *Empty* the batteries should be recharged or replaced immediately.

Charging the batteries

Use the supplied battery charger to recharge the batteries. The mains and car adapter for charging the stick reader batteries are labelled "Battery Charger". Place the batteries in the charger, ensuring that the positive and negative markings (+ / -) on the batteries match up with the (+ / -) on the charger. Charging the supplied batteries from flat to full should take about four hours.

Reading tags

Press and release the green button once to turn the stick reader on. The LCD screen will light up and display the start-up screen (version number and the battery level).

Turn off the stick reader by pressing and holding the green button for at least two seconds until the LCD screen shuts off. If the stick reader is left idle for five minutes it will turn itself off to conserve battery power.   Shutdown time can be changed on the computer with *SDL Connect > Stick Configuration*

Press to read... **Grp=A Count=0**	Turn on the stick reader. Press and release the green button once. You don't need to hold the button down. The stick reader will begin to scan for an EID. For information on Rapid Read mode see next page.

UK0123456 08863 **Grp=A Count=1**	**EID found** If an EID is within range the light ring at the end of the stick reader will flash green and a short 'beep' will be heard. The EID number will show on the LCD screen and be stored in the memory. The group count will be increased by one. The stick reader is ready to scan for another EID - press the green button once to start scanning again.

No EID found **Grp=A Count=0**	**EID not found** If the stick reader scans but no EID is found the screen will display *No EID found*. The light ring will glow red and a different long 'beep' will signal a failed read.

UK0123456 08863 **Already saved...**	**EID already stored in memory** If the same EID tag is read more than once, the screen will briefly display the message *Already saved*. The light ring will flash red and a short beep will indicate that this number is already stored in memory for this group. The second 'read' is not stored and the count is not increased. If the same EID tag is scanned in a <u>different</u> group the stick reader will treat it as a new number and record it as an EID found.

Menu options

The menu is a list of options for changing the way the stick reader functions.

1. Turn off the stick reader by holding down the green button.
2. With the stick reader off, press and hold down the green button. Continue holding down the green button to view all the menu options.
3. Release the green button to make a selection.
4. To exit the menu without making changes and return to scanning, wait for the *Cancel* option and release the green button.

Menu options (Your own stick reader may not have every option listed here.)

New group?	**New group** Animals are always recorded into a group. The default group is "A" but you can create different groups beyond that, named in alphabetical order. However, only one group is active at a time, so once you create a new group you can not go back to a previous group unless you erase your latest group by using the *Erase last grp* option from the menu.
Erase last group? **Are you sure?** **Press to erase**	**Erase last group** When a grouping of animals is no longer wanted, erase the group and all the EID numbers stored inside it will be deleted. This will result in the previous group becoming the active group. Select *Erase last grp* from the menu. Confirm by pushing the green button again before the end of the countdown. If you do not push the green button before the end of the countdown the action will be canceled.
Erase all tags? **Are you sure?** **Press to erase**	**Erase all tags** This function deletes all the EID numbers stored in memory. The stick reader software can store thousands of EID numbers but the more tag numbers in storage, the slower the process of scanning and saving each tag. Once you have exported or printed tag numbers it's advisable to delete them. Erasing all tags also allows animals to be re-scanned and their EID number saved again. Select *Erase all tags* from the menu. Confirm by pushing the green button again before the end of the countdown. If you do not push the green button before the end of the countdown the action will be canceled.
Disable memory?	**Disable memory** Disabling the memory allows tags to be scanned and the number displayed but the EID is not stored. Select *Disable memory* from the menu. To re-enable memory, select the *Enable memory* option from the menu.
Rapid Read on? **Rapid Read off?**	**Rapid Read mode** *Rapid Read* means there is no need to press the green button for every tag - the stick reader will be constantly scanning for tags. If no tags are detected in 12 seconds then the stick reader stops scanning. Press the green button again to start scanning again. Select *Rapid read on* from the menu to change from *Press to Read* to *Rapid Read*. Press and release the green button once and the stick reader will be constantly scanning for tags. Press the green button a second time to stop scanning. To disable rapid read mode and return to individual read, select *Rapid read off* from the menu. Note that the stick reader remembers the last mode selected when it was turned off and will start in that mode when next turned on.

SDL400 and SDL440 stick readers are designed to link to a computer using Bluetooth.
- » Your computer must be Bluetooth-capable; it might have built-in Bluetooth, or you could purchase a Bluetooth dongle that plugs into a USB port.
- » With a Bluetooth link, EID numbers stored in the stick reader memory can be downloaded into your computer with the Shearwell software program SDL Connect.
- » SDL Connect comes in two flavours - one for Windows computers and one for Mac computers.
- » You should have received a CD with SDL Connect when you purchased your stick reader, or it is a free download on the Shearwell website *www.shearwell.co.nz*
- » If the stick reader batteries go flat then the correct date and time will be lost. Linking to a computer re-sets the date and time on your stick reader.

SDL400 and SDL440 stick readers are designed to link to mobile phones and tablets using Bluetooth.
- » SDL400 (red handled stick) links to an Android device.
- » SDL440 (blue handled stick) links to iPhone or Android devices.
- » Mobile apps are free to download from the Shearwell website *www.shearwell.co.nz*

Look for a label on the back of your stick reader that shows its Bluetooth name, Bluetooth number and the serial number. The Bluetooth name is the most important - it will be displayed when you link the stick reader to a computer or a mobile device . The Bluetooth name will start SDL400S or SDL440S, followed by another four digits. For this example: SDL400S 1949

Certification

FCC ID: YVSSDL400S
The SDL400S complies with parts15.207 and 15.209 of the FCC rules CFR47:2009. 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 the device.

The SDL400S operates at a frequency of 134.2KHz and complies with part 15C emission requirements. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, may cause harmful interference in which case the user will be required to correct the interference at his own expense.

IC: 8856A-SDL400S
The SDL400S also complies with Industry Canada RSS-210 issue 7. This SDL400S complies with Industry Canada licence-exempt RSS standard (s).

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