

User Guide

Animal trackers

from Findmysheep



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1. Product overview

This user guide covers the products listed in Table 1 and shown in Figure 1.

Product name	Product #	Description
Bjelle FMS (Tracker 2A4-X2-100)	822384	1. gen satellite transmitter medium battery capacity
Tracker 9A7-X2-200	822725	1. gen satellite transmitter high battery capacity
Tracker 2A4-X3-100	822750	2. gen satellite transmitter medium battery capacity
Tracker 9A7-X3-200	822751	2. gen satellite transmitter high battery capacity
Lader FMS (Charger 10W5-100)	822616	Charges Bjelle FMS (Tracker 2A4-X2-100) and Tracker 2A4-X3-100
Charger 10W5-200	822752	Charges Tracker 9A7-X3-200 and Tracker 9A7-X2-200

Table 1

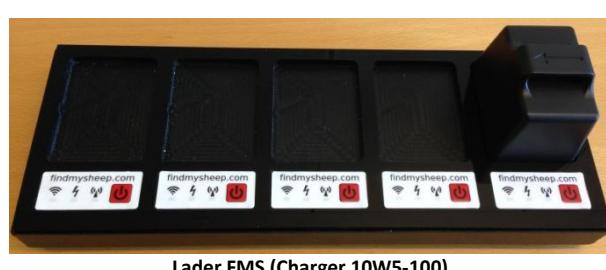


Figure 1 Product pictures

2. Important notice!

- The power cord should never be plugged or unplugged while trackers are placed on the charger.
- All trackers are default set to send 1 message every 18 hours.
- It is recommended to read the entire user guide before using the trackers.
- The message update schedule for each unit is programmed via the charger. It is not possible to change the update schedule for the trackers remotely
- When placing the Tracker on the charger make sure that the arrow on top of the Tracker points away from the power and USB connector on the charger.
- When putting the tracker on the animal make sure that the arrow on top of the Tracker points away from the animal.
- It is recommended to test the Tracker functions before deploying it. The test should give at least two subsequent messages from the tracker according to its programmed message update schedule.
- The tracker does not transmit indoors.

3. Equipment from Findmysheep

Trackers, four different versions exist, see section 1 for more information.

Chargers with AC adapter, power cord and USB cable, see section 1 for more information.

In addition one needs a collar to attach the tracker to the animal. Findmysheep recommends OSID collars.

4. Getting started

4.1. Installing the charger

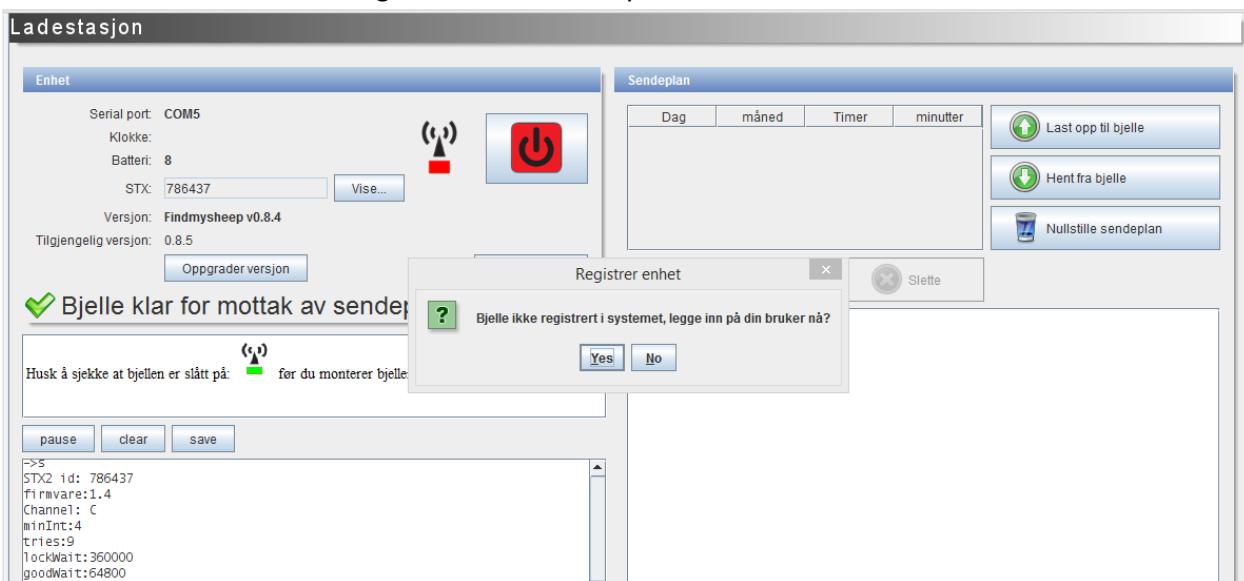
1. Plug the power supply to the wall outlet and plug the 24V power plug to the charger.
2. Connect the USB cable between a PC and the charger. If the computer has internet connection it will automatically install drivers. This may take a few minutes the first time installing. **Note!** When the USB cable is connected the slot next to the power plug (Slot 1) will only work as a programming slot. Slot 1 will not charge as long as the USB is connected.
3. When installation is complete a green LED by the  icon on Slot 1 should be lit.

4.2. Charging the Tracker

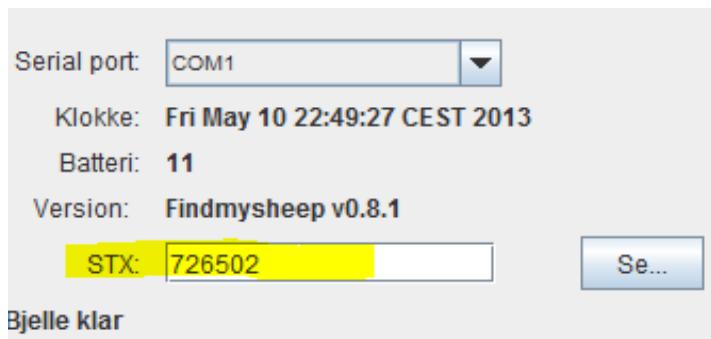
1. Plug the power supply to the wall outlet and plug the 24V power pin to the charger.
2. Place the tracker in an open slot. The arrow on top of the tracker should point away from the power plug on the charger. When charging the LED by the (⚡) charging-icon flashes green.
3. When the LED by the (⚡) charging-icon becomes solid green the tracker is fully charged.
4. Press the red On/Off button  to turn the tracker On. Hint! Lift the tracker and replace it in the slot to activate the communication before pressing the On/Off button.
5. On/Off LED: green = ON and red = OFF.

4.3. Programming and activation of Tracker

1. Open an internet browser (Google Chrome or Mozilla Firefox is recommended)
2. Go to : www.findmysheep.com
3. Click “login” (upper right corner). This will install the findmysheep web-starter on your computer. Use the Findmysheep icon on your desktop to login later
4. Enter username and password.
5. Click on the “Charger” icon
6. Place the tracker in Slot 1 and arrow away from power plug
7. The PC software will now connect to the tracker
8. The first time connecting to a tracker you will be asked to register the tracker to your user account. Click “Yes” to activate and register the tracker on your user. See screenshot:



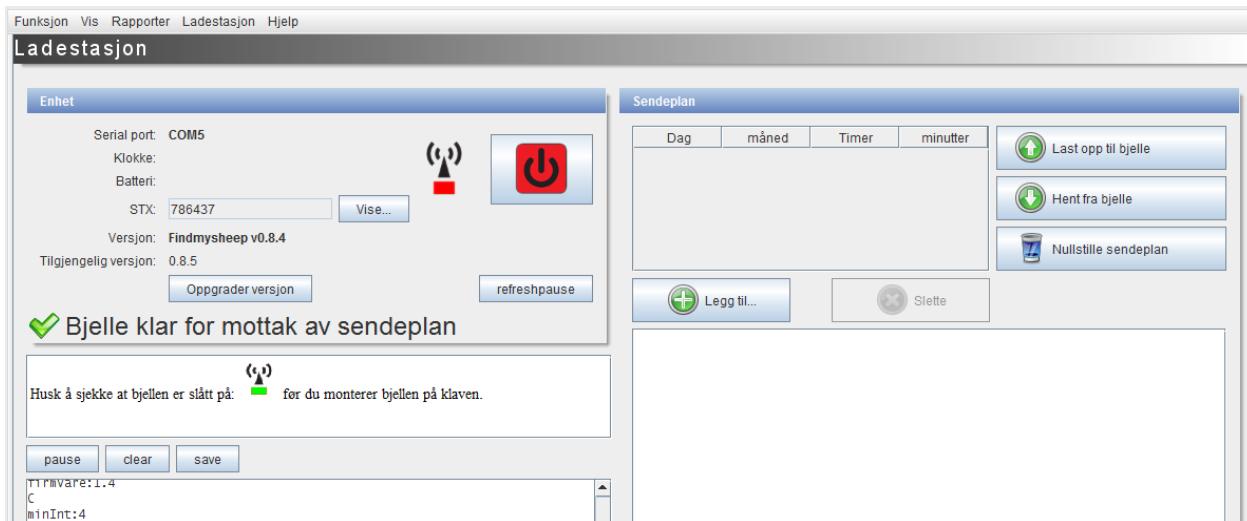
9. When the tracker is registered to your user. Basic info on the tracker will be displayed on screen. HINT! If this process delays, lift the Tracker and replace it in slot 1.
10. Please check that the latest firmware is installed for the tracker. Firmware ver. and available firmware ver. should have equal ver. nr.
11. If a new firmware is available Click “Upgrade firmware” and follow the onscreen instructions to upgrade the trackers firmware.
12. The tracker will by default transmit one message every 18 h. To edit this go to edit message schedule. For more info see section 4.4.
13. Please note that the STX number is the trackers unique ID.



14. Turn the tracker ON. Move the tracker to a free slot on the charger (Slot 2-5), and press the red On/Off button  to turn the tracker On. Hint! Lift the tracker and replace it in one of the open charging slots to activate the communication before pressing the On/Off button.
15. It is recommended to write the STX-number with a permanent marker on the inside of the trackers collar. Repeat steps 6-11 to activate the next tracker.

4.4. Message schedule:

1. Click the “Charger” icon.
2. Place the tracker in Slot 1. Hint! USB cable must be connected. Trackers arrow away from power plug.
3. Click “Add Schedule”.
4. Set the day and month for this schedule to start and set the interval between messages in this schedule. E.g. Day: 10, Month: 5, Hours: 12, Minutes: 0 = From the 10th of May the tracker will send its position every 12 Hours. This schedule will continue forever or until a new schedule is triggered.
5. To add a new schedule click “new schedule” button. Maximum number of schedules is 16.



6. Click “Upload schedule”, to add this schedule to the tracker. Hint! Lift the tracker and replace it on slot 1 if the upload process fails. This way the communication with the tracker is reset. It is possible to

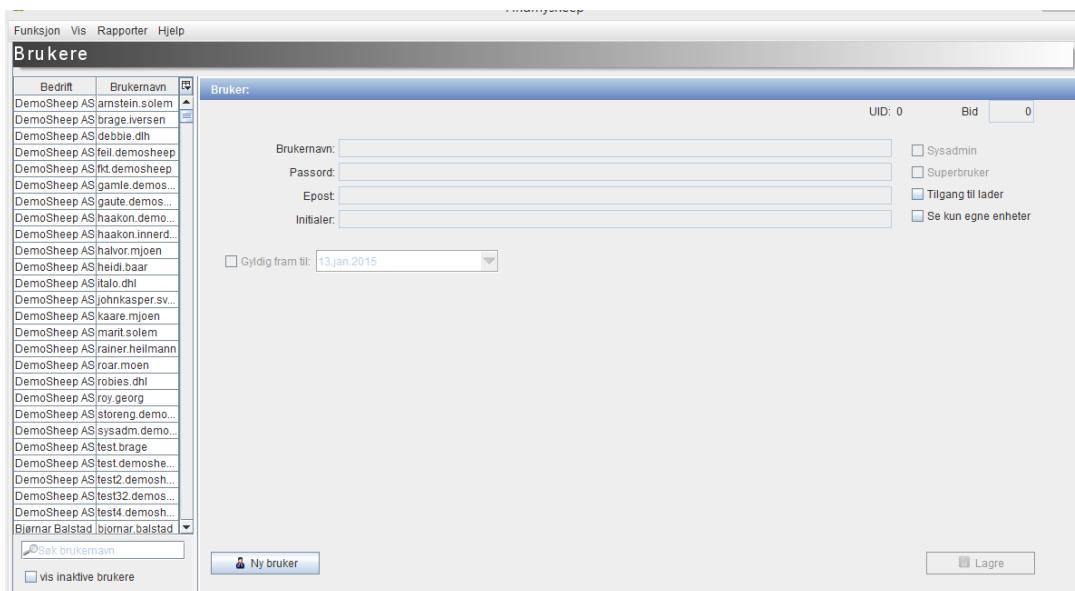
download the message schedule from the tracker by clicking on the “Download Schedule” button. This can be helpful to verify what schedule is active on the tracker.

- When the tracker is 100 % charged and message schedule is set, the tracker can be turned on and hooked onto its collar. Please make note of the STX number. E.g. if you wish to pair this number with the animal ID-number when deploying it.

4.5. User administration

Enter the menu users to add new users and/or edit existing user settings. In the user admin dialogue it is possible to set different user levels. Sysadmin have the rights to edit all settings in the system. Normal users have limited rights, which can be edited in the user settings.

- Log in to the findmysheep client
- Click the “show” menu.
- Click “users”
- Click to highlight the user you want to edit.
- Click “New user” to make a new user. Enter the credentials for the user, and click save



Funksjon Vis Rapporter Hjelp

Brukere

Bedrift	Brukernavn
DemoSheep AS	amstein.solem
DemoSheep AS	brage.iversen
DemoSheep AS	debbie.dlh
DemoSheep AS	feil.demosheep
DemoSheep AS	ft.demosheep
DemoSheep AS	gamle.demos...
DemoSheep AS	gautne.demos...
DemoSheep AS	hakon.demos...
DemoSheep AS	hakon.innred...
DemoSheep AS	halvor.mjoen
DemoSheep AS	heidi.baar
DemoSheep AS	itailo.dhl
DemoSheep AS	johnkasper.sv...
DemoSheep AS	kaare.mjoen
DemoSheep AS	marit.solem
DemoSheep AS	rainer.heilmann
DemoSheep AS	roar.moen
DemoSheep AS	robes.dhl
DemoSheep AS	roy.georg
DemoSheep AS	strenge.demos...
DemoSheep AS	sysadm.demo...
DemoSheep AS	test.brage
DemoSheep AS	test.demoshe...
DemoSheep AS	test2.demosh...
DemoSheep AS	test32.demos...
DemoSheep AS	test4.demosh...
Bjørn.Balstad	bjornar.balstad

Brukernavn:

Passord:

Epost:

Initialer:

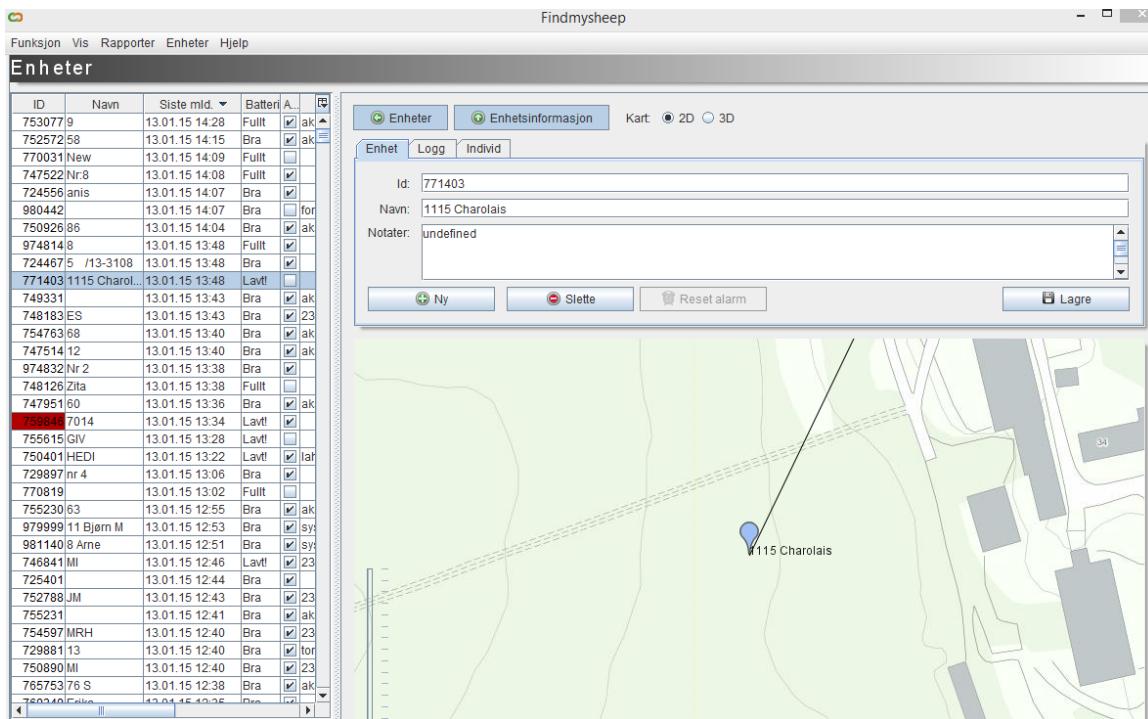
Gyldig fram til:

UID: 0 Bid: 0

Sysadmin
 Superbruker
 Tilgang til lader
 Se kun egne enheter

4.6. View the trackers in map

1. Click the “Trackers “button
2. A list showing all the Trackers and their most recent coordinates.

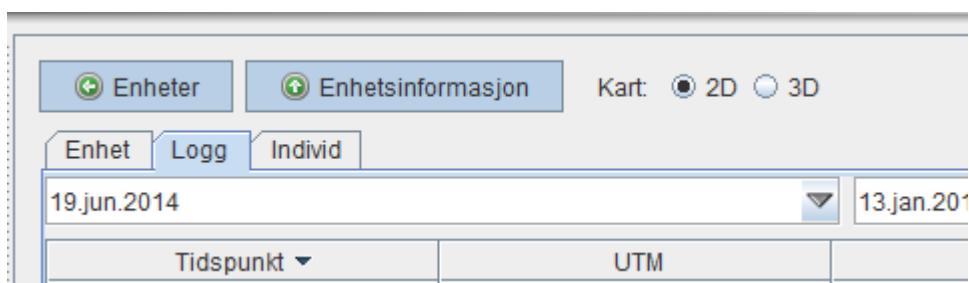


The screenshot shows the Findmysheep software interface. On the left, a table lists various trackers with columns for ID, Navn, Siste mld., Batteri, and A. On the right, a map shows the location of a specific tracker, labeled '1115 Charolais', with a blue dot indicating its position. The map interface includes a legend and a scale bar.

3. Click the Tracker you want to view. A map showing the trackers positions opens
4. Click the “log” tab to view the trackers message log.
5. “msgs” = total number of messages
6. “Battery”= Battery status from 12 to 1. 12 is max battery capacity.
7. “ID”=the trackers id number (STX ID)
8. “Name”: Edit this field to change the visual name of the unit
9. “Notes”= Make notes comments regarding the tracker.
10. The checkbox “A” (active) in the tracker list activates/ deactivates the trackers alarm functions. Only active trackers can be viewed in the mobile app.
11. “User”: If the client has two or more users, the trackers can be linked to different users.

4.6.1. Map functionality

1. Zoom in and out by using the slider in the lower left corner.



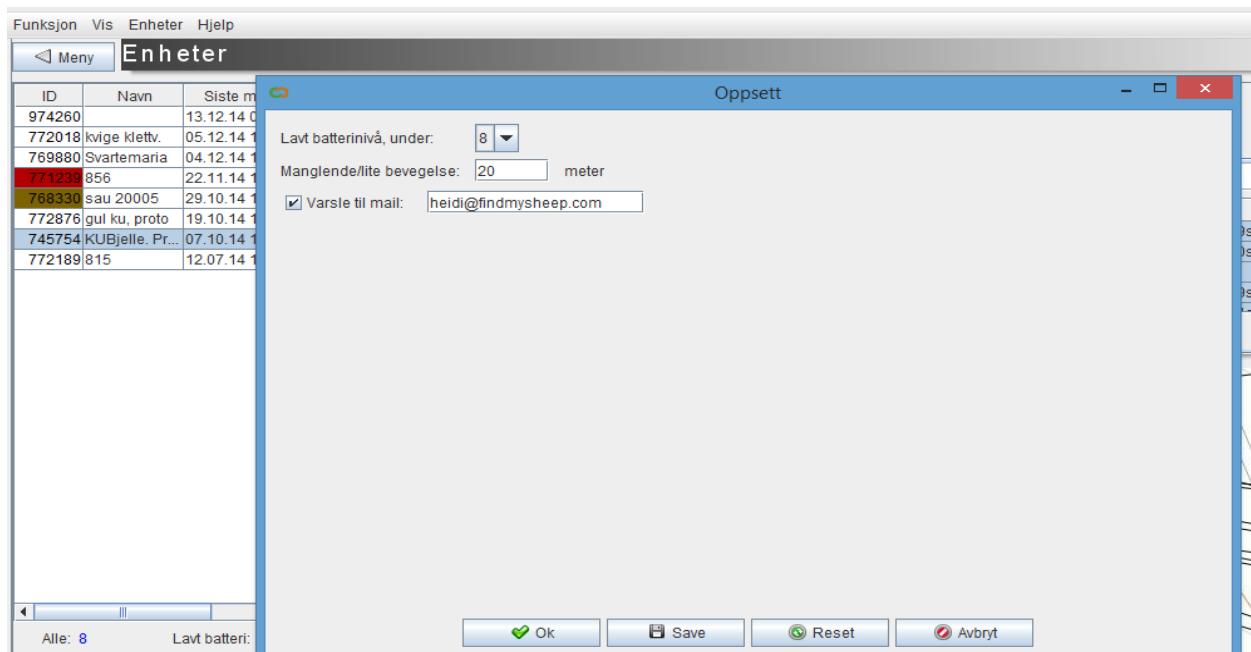
The screenshot shows the Findmysheep software interface with the 'Logg' tab selected. It displays a date range from '19.jun.2014' to '13.jan.201'. Below the date range are two dropdown menus: 'Tidspunkt' and 'UTM'.

2. Change map type: Click units menu -> map type, Choose map.

3. Click the radio button “3D” to view the map in 3D. This uses more system resource, and may slow down some computers.
4. Use the tab “log” to view the trackers position log. Change the dates to view the trackers movements in the chosen time.

4.7. Alarms

1. Go to the menu Show -> Settings -> Alarms.



2. Set the threshold values for alarms.
3. Movement: Recommended threshold: 20 m.
Battery: Recommended threshold: 8
4. NOTE! Only trackers that are checked for “A” active in the tracker list will give alarms

4.8. Coordinate system:

1. Go to the menu Show -> Settings -> General settings
2. Choose coordinate system from the dropdown menu.
3. Save

5. Checklist

Before deploying the tracker check:

- Is the tracker 100 % charged?
- Turned ON?
- Message schedule is correct?
- The tracker is activated in the findmysheep client
- Newest firmware version
- The tracker transmits messages
- The arrow on top of the tracker is pointing away from the animal.

6. Warranty

The product has one year warranty from the date of purchase.

7. Specifications tracker

Configuration Only possible via charger and PC interface

Charging time Maximum 5 hours

8. Specifications charger

Input voltage	+24VDC
Charging power	10W
Data interface	USB connection for configuration of tracker and firmware

9. Message profile

This product is intended for connection to Globalstars satellite network. The equipment must follow Globalstars timing profile for transmission of data. It is only possible to configure the timing profile of the product via a dedicated web interface. It is not possible for the user to configure the unit to violate Globalstars timing profile.

10. CE Marking

The product Bjelle FMS 822384 carries the following CE mark:  **CE0470** 

The Declaration of Conformity is attached at the end of this user manual.

11. CE ALERT

The product is market with the CE ALERT Symbol  . The reason for this marking is that the product cannot be market or sold in Ireland (IE)

12. Warning

Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The device must be installed to provide a separation distance of at least 20 cm from all persons when in use.

13. Revision history

Rev.	Comment:	Issued by:	Reviewed by:	Approved by:
0.1	Initial version	AUA/08.04.15		