Sandberg®
ACTIVE

Survivor Lantern All-in1 10000
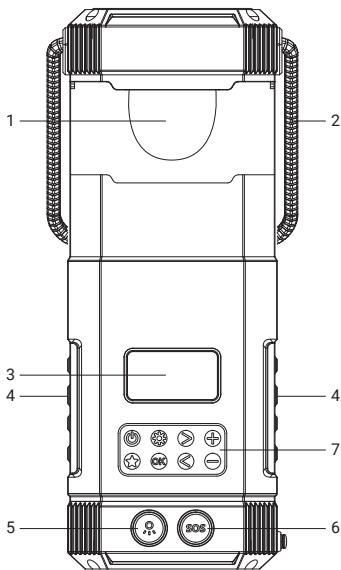## User Guide
420-90

Sandberg® ACTIVE

Product overview

No.	Description	Function
1	Lantern	Extend the unit to use the lantern
2	Handle	You can use the handle to carry or hang the unit
3	Display	Shows information about the current station/song/artist
4	Speaker	Here are the two loudspeakers of the radio
5	Torch on/off Lantern on/off	Press to activate torch, press again to change torch If the unit is extended, the button activates the lantern
6	SOS button	Press SOS button to play a loud siren sound and activate the emergency light

No. 7 Radio control buttons		
Button	**Short press**	**Long press**
On/Off/Mode	Turn radio on / change mode (DAB / FM / Bluetooth)	Standby mode / turn off completely when already in standby
Favourites	Open a favourite radio station	Save current radio station to favourites
Settings	Toggle radio text information	Enter menu
Confirm	Confirm any selection	Start full scan in DAB / FM
Right	DAB: Next station FM: +0.05 MHz	FM: Search for next station
Left	DAB: Previous station FM: -0.05 MHz	FM: Search for previous station
Volume Up	Increase the volume of the radio	
Volume Down	Decrease the volume of the radio	
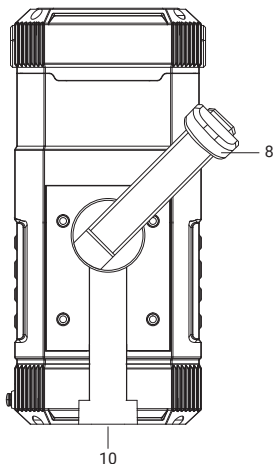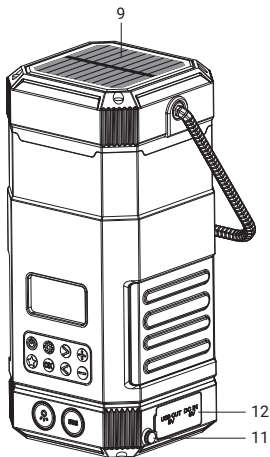
No.	Description	Function
8	Hand crank	Turn hand crank to manually recharge the internal battery
9	Solar panel	Face the solar panel to the sun to recharge the battery
10	Torch / Emergency Light	Bright torch to use during night time. Emergency light flashes if **SOS** button is pushed
11	Antenna	Extend antenna to full length for best reception

No. 12 Connectors	
USB-C charging	Use to recharge the integrated battery of 420-90
USB output	Power bank function to charge any mobile device
Reset button	Hard reset the radio in case of software error
Charging Indicator	LED blinks red while charging and turns solid red when full

Functions

Standby mode.

To put the radio into standby mode, long press the On/Off button. To reactivate the radio, short press the On/Off button. To fully turn off the radio and preserve battery life, long press the On/Off button again in standby mode. No alarms are available, when the radio is turned off completely.

In standby mode, press the settings button to quickly view your currently set alarm settings, or press the **OK** button to quickly jump to the alarm settings wizard.

Mode selection.

To select the desired audio mode, short press the mode button, while the radio is turned on. The available audio modes are:
• DAB+ digital radio
• FM analogue radio
• Bluetooth wireless audio

DAB+ digital radio mode.

Use this mode to listen to digital radio broadcasts. You can cycle through available stations with the left and right buttons. To access more functions, open the menu by long pressing the settings button. Navigate the menu with the left and right buttons, and use the **OK** button to confirm. To exit the menu use the settings button again.

DAB+ station search.

The radio automatically performs a full station search when you turn it on for the first time.

If you would like to perform a full station scan again at a later time (e.g. after moving), press and hold down the **OK** button for approx. 2 seconds.

Station list.
After the scan is complete, you can view all currently available stations in the station list, accessible in the menu. Navigate through the list with the left and right buttons and confirm your selection with **OK**.

Saving / recalling a favourite station.
If you want to save the current DAB+ station as a favourite, press the favourite button for about 2 seconds.

To recall a favourite later, short press the favourite button.

DAB menu.
The DAB menu contains the following options:
• **Trim invalid stations:** Prune unavailable stations from station list.
• **Station order:** Sort stations in the station list by name or frequency.
• **DRC:** Adjust the level of the Dynamic Range Compression, reducing the volume differences between loud and quite passages.
• **Manual tune:** Manually tune a DAB frequency.

FM radio mode.
Use this mode to listen to analogue radio broadcasts. You can cycle through available stations by long pressing the left and right buttons. To access more functions, open the menu by long pressing the settings button. Navigate the menu with the left and right buttons, and use the **OK** button to confirm. To exit the menu use the settings button again.

FM station search.
To perform a full station scan, press and hold down the **OK** button for approx. 2 seconds. All found radio stations will be saved in the favourite station list.

Setting the FM frequency manually.
Press the left and right buttons briefly to set an FM frequency manually. The frequency is adjusted in 0.05 MHz steps.

Saving / recalling a favourite station.
If you want to save the current FM station as a favourite, press the favourite button for about 2 seconds.

To recall a favourite later, short press the favourite button on the radio.

FM menu.
Other menu items in the FM menu include:
• **Scan settings:** Restrict the full scan to strong stations only.
• **Audio settings:** Only allow mono stations to improve reception.

Wireless music streaming (Bluetooth).
A Bluetooth-enabled mobile phone can be used for wireless playback of any audio content. For this purpose, you need to activate the "Bluetooth" mode by pressing the mode button. Once this is done, search for "Sandberg 420-90" on your mobile device. For more details about operation of your mobile phone, please refer to the device's manual.

System setup.
You can find the system setup in the menu of every audio mode.

Alarm.
Use this menu to configure the alarm function. Two separate alarms can be programmed. Each alarm can be repeated daily, on weekdays or on weekends. The alarms can play a standard alarm sound or the last set FM or DAB station.

Backlight.
Use this entry to set the display backlight illumination level and timeout.

Time setup.
Use this entry to set time/date, change the time or date format or configure automatic time setting via FM/DAB.

Language.
Select one of the following menu languages:
English, German, French, Italian, Spanish, Danish, Finnish, Portuguese.
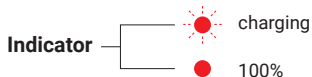
Factory reset.
Reset the radio to factory settings.
Attention: All settings and favourites will be deleted by this procedure!

Software Version.
The current software version of the radio is displayed here.

Charging the battery

Indicator — charging

100%

Charge options:

| Hand crank | Solar panel | AC charger |

Hand crank

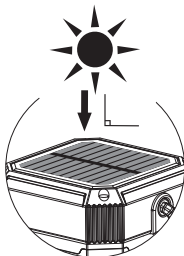Turn the crank at 120 - 150 rpm (2 - 2.5 times a second). 1 minute of turning can power the radio for about 3 minutes.

Approximately charging time by the hand crank (battery 0-25%): 5 hours
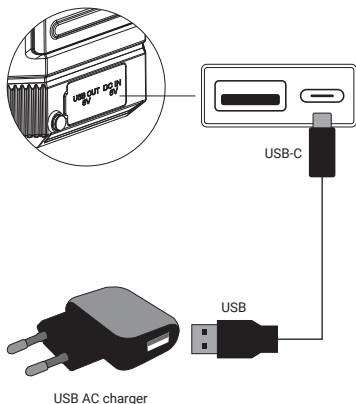
Solar panel

Make sure to place the solar panel in direct sunlight with no shadow.

Approximately charging time by the solar panel (battery 0-25%): 20 hours

AC charger

USB IN DC IN 5V 5V

USB-C

USB

USB AC charger

Charge device
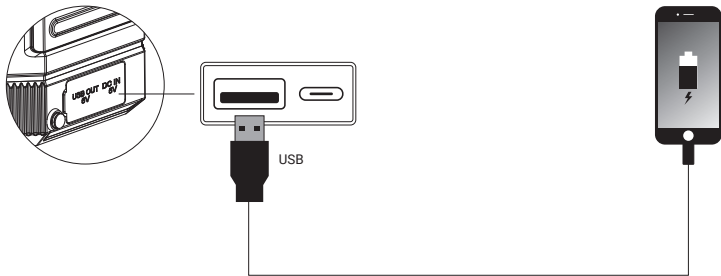
SOS Emegergency Function

Use this function in an emergency to alert people near your location. To activate, long press the **SOS** button on the bottom of the radio. The radio will play a loud siren and flash a red and blue signal light.

Attention: The siren is very loud. Prolonged close range exposure can cause hearing damage. Try to set up the radio some distance away, when using the emergency function. Use of the emergency function drains the battery at an excessive rate.

Torch and Lantern function

To turn on the torch, press the button on top of the radio. If you press the button a second time, the light flashes.

If the lantern is extended, the button does not activate the torch, but the lantern light instead. This can be set to 3 different levels.

Three light modes:

White light   Yellow light   Warm light

NOTE: The torch and the lantern cannot be activated simultaneously.

Storage

It's recommended to always keep the Lantern powerbank in a dry environment and with temperatures between 0° to +40°C. Never expose it to any liquids or high temperatures or even fire. This can cause the battery inside to expand or even explode or catch fire.

If the battery seems expanded or damaged, immediately bring it to a safe waste station for electronic waste.

To keep the battery intact, you need to recharge it at least every 6 months. Otherwise it can decrease its capacity and in worst case it can stop working. This stage of non-function will not be covered by the warranty.

CE

Declaration of Conformity

Manufacturer:	Sandberg A/S
Address:	Bregneroedvej 133D, 3460 Birkeroed, Denmark
Product description:	Camping lantern with powerbank and torch
Product name/Type no:	Sandberg Survivor Lantern All-in1 10000 / 420-90

We declare under our sole responsibility that the products, to which this declaration relates, are in conformity with the Council Directives on the approximation of the laws of the EEC Member States relating to the following:

EMC Directive 2014/30/EU
RED Directive 2014/53/EU
RoHS Directive 2011/65/EU with amendment (EU)2015/863

CE letter of conformity

Following standards were applied :

EMC :   EN 55032 :2015/A11 :2020
              EN IEC 61000-3-2:2019
              EN61000-3-3:2013/A1:2019
              EN55035:2017/A11:2020

RED :   EN 62479 :2010
              EN IEC 62368-1 :2020+A11 :2020
              ETSI EN 301 489-1 V2.2.3 (2019-11)
              ETSI EN 301 489-17 V3.2.4 (2020-09)
              ETSI EN 300 328 V2.2.2 (2019-07)

RoHS: IEC 62321-3-1:2013
              IEC 62321-4:2013+A1:2017
              IEC 62321-5:2013
              IEC 62321-6:2015
              IEC 62321-7-1:2015
              IEC 62321-7-2:2017
              IEC 62321-8-2017

Date: 24. January 2023   Location: Birkeroed, Denmark

Name: Anders Petersen
              Brand Director

              _____
                            Signature

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Warranty

There is a five-year warranty on your Sandberg product.
Please read the warranty terms and register your new
Sandberg product at www.sandberg.world/warranty

5
Years
Warranty

Survivor Lantern All-in1 10000
Capacity: 10000 mAh (37 Wh), USB-A output: 5V/2A
USB-C input: 5V/2A, Solar panel: 5V, 95 mA (0.48W max)
Product weight: 907g

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Sandberg A/S
Bregneroedvej 133D,
3460 Birkeroed, Denmark

FC (€

NOTE: For optimal battery performance, we
recommend fully discharging and recharging the
powerbank at least once every three months.

For information on handling electronic waste, see www.sandberg.world/weee