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- Gebrauchsanweisung 
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- Modo de empleo 

arva
Evo3+®



Description of the unit



Front:

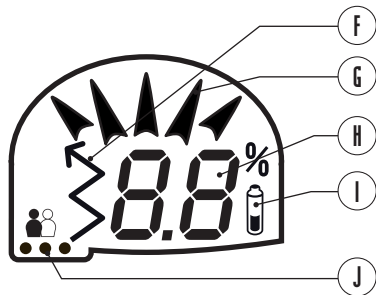
- Ⓐ Transmit/Receive switch (SOS / Search)
+ Signal blocking switch
- Ⓑ Arrows indicating the direction to follow
- Ⓒ Speaker
- Ⓓ On/Off harness buckle switch

Back:

- Ⓔ Battery compartment cover

LCD screen

- Ⓕ Primary research Arrow
- Ⓖ Secondary research arrow
- Ⓗ Distance indicator / battery status
- Ⓘ Battery status indicator
- Ⓙ Icon multivictims



Primary search



Secondary search



Final search



Marking function



Icon multivictims



2 victims



3 victims or more



Device carrying and holster

The holster must always be worn against your inner layer of clothing (underwear or next to skin).
The ARVA should preferably be covered by a garment to prevent cold and impacts.

Congratulations on buying your new ARVA EVO3+.

Exclusive features of the l'ARVA Evo3+ :

- A powerful 457 kHz ± 20 Hz transmitter transmission level does not depend on battery status.
- The search band width is 40 m.
- A multi-victim indicator and an automatic locking on the closest victim.
- Function: blocking of the victim which allows the isolation of the victim found to its vicinity in order to locate further victims (in the case of multiple burials).
- A self-test of the locking onto the transmission frequency and power every 5 minutes.
- 16-bit processor with extremely rapid analysis speed.

Advice on device use and personal safety:

When you exit a secure ski run, you enter a world of risk where an avalanche, in particular, may occur. If you do this, you are solely responsible for moving around the mountains:

- **Before leaving your base**, obtain information (from websites, mountain professionals, etc.) and equip yourself with an ARVA, shovel and probe. This equipment is not an avalanche detector or absolute protection.

To use your ARVA effectively, you must be trained. So practise using it!

- **Never leave a run alone**, and do not follow just any traces: they are not an absolute guarantee of safety. If unsure about the stability of a slope you absolutely have to take, increase the distance between you, or better, go one at a time. And keep an eye on each other.

- **Lastly**, know when to stop. And be very careful: snow changes, and so does avalanche risk! Learn about avalanches, and prepare your route with www.arva-equipment.com/experience

Using your ARVA:

Move SLOWLY so you don't take the wrong direction in haste. You must search the entire avalanche surface.

When doing a search or check, be sure to stay away from any electronic equipment (high-voltage power lines, radio, mobile phone, heartbeat meter, etc.) or impose radio silence. A pacemaker may also disrupt the device in search mode. This list is not exhaustive.

Applicable to any DVA or GPS type transceiver device. The progress indicator describes progress along a field line; it is not the straight-line distance in metres.

Initial start-up

Fitting batteries and advice

The ARVA EVO3+ only operates with 4 standard AAA/LR03 alkaline batteries.

Open the battery compartment cover with a screwdriver or coin, or using the screws. The 4 batteries must always be of the same brand and replaced at the same time. Insert the batteries carefully, as per the directions shown in the compartment.

Avoid touching the contactors. Store the unit above 8°C to prevent battery deterioration.



NEVER USE rechargeable or lithium batteries. These do not resist cold and/or discharge in one go (unlike alkaline batteries, which discharge gradually).

Remove the batteries if the device is left unused for a long time (especially in summer). If batteries leak, the warranty does not apply.

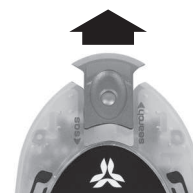
Clip for safe

Put your beacon on you, and it turns automatically on when you clip it. That's the clip and safe concept... An easy and convenient way to increase everybody's safety during your ski touring or freeride sessions.



Switch to Research Mode

To switch in Research mode, Pull up the search button.

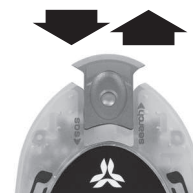


Blocking function :

Quickly activate the emitting/receiving selector. You are then in BLOCKING mode. The device continuously displays

CE for 3s and then gives you a distance and a direction for the next victim.

The signal of victim V1 is masked temporarily.



Switching the unit on

- Buckle the On/Off harness switch ①
- **Device self-test:** The numerical arrows and the entire display on the LCD screen will be illuminated from left to right. 3 beeps for the test of the speaker will be heard when it is in good condition.
- **Check your batteries** with the battery capacity scale indicated in percentages ② . 11 levels (99, 90, 80, 70, 60, 50, 40, 30, 20, 10, 0).
- The device then switches off the LCD screen and the **central numerical arrow flashes** to indicate that the device is in the transmission mode.
- **Reception/transmission test** ③ to be conducted before each excursion. The tester sets his avalanche transceiver for transmission and each member of the group verifies that his transceiver in reception mode detects him correctly. The operation to be conducted in reverse so that ALL transceivers in the group are checked in both transmission and reception modes.



Possible anomalies:

The ARVA Evo3+ conducts a self-test every five minutes to check the status of the batteries, the locking onto the frequency, transmission power, etc.

If the device detects an anomaly, a long 5-second beep will be heard, 3 times separated by 5 minutes. Two cases are possible:

- The capacity of the batteries has dropped to 20% (the device can still transmit for 48 hours or search for 112 hour). After the long 5-second beeps, 20% will remain lit on the LCD display to remind you to change the batteries as quickly as possible.
- Technical transmission or program problems, after the long 5-second beeps, the LCD screen displays Er (= Error). **Do not leave with the device in this last case.**

Certificate of warranty

ARVA provides a statutory warranty against duly observed manufacturing or latent defects. The warranty expiry date is shown on the label in the battery compartment. The warranty is rendered void if the label is missing or falsified, or if the device housing screws are tampered with.

During the warranty period, any required repairs will, as per the conditions of warranty, be performed free of charge (excluding cost of carriage) or, if you prefer, the device will be replaced at no cost. This device is not subject to any other express or implicit warranty. We decline liability for loss or inappropriate use of the device.

If the device malfunctions, it must be returned to the store/retailer with a description of the faults observed. This warranty is granted only if the device is used in compliance with the instructions for use and has not been subject to any tampering.

**Register your arva beacon on www.arva-equipment.com
to confirm the warranty**

In the event of a single buried victim

DIGITAL MODE

■ Primary search (Approach phase)

- Pull on **SEARCH**. The device is in digital mode entirely automatically; the LCD screen displays ① continually as long as you have not detected a signal transmitted by the victim
- Advance by crisscrossing the avalanche according to diagram ② if you are alone or ③ if you are several rescuers.
- Hold the transceiver horizontally, pointing it downward and sweeping slowly from left to right and right to left (you can make a 180° angle)
- Continue until the first clear and distinct signal (directional arrows lighting up AND the distance display).

Note: It may happen that you are directly in secondary search, the transceiver picking up a signal right from its switched over to reception.

■ Secondary search (Localization phase)

This phase begins from the moment you receive a signal from the victim.

- The transceiver gives you distance information on the LCD screen (numbers) AND one of the directional arrows lights up ④.
- As soon as a directional arrow lights up, position your transceiver so that the central numerical arrow is lit and proceed in the indicated direction. If **the numbers decrease, you are getting closer to the victim, continue in this correct direction**. Otherwise, head in the opposite direction.
- Always try to have the central directional arrow lit in order to progress, carrying out a slight sweeping movement in the direction the lit arrows are indicating.

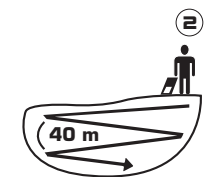
This will make it possible for you to cover the shortest distance possible for you to reach the victim. Continue to move forward until the distance display shows 2.0.

■ **Final search** (pinpointing phase). Having reached this indication, the arrow lit, bring the transceiver down horizontally and in the same position to the level of the snow. The beeps will speed up, the distance indication will decrease further. Continue until you reach the smallest number. When it increases, come back to the smallest and locate the victim by the "pinpoint over a cross" technique while continually keeping the transceiver in the same position.

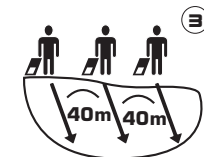
■ **"Pinpoint over a cross"** technique ⑤: the transceiver must absolutely be moved at the level of the snow, parallel to it and in a straight line. On this straight line, the place must be determined where the distance information is lowest (beeps very close to each other, or even continuous beeps). From there, move out at a perpendicular and do the same procedure again. The point where the sound reaches its maximum, determined in this way, is on a vertical with the transceiver. If necessary, do the procedure one or two more times to further pinpoint the location. It is not necessary however to reach an extremely precise localization with the help of the transceiver. It is indeed often faster to immediately begin to probe as soon as the probable area of localization is defined with a precision within an area of about 50 centimeters.



①



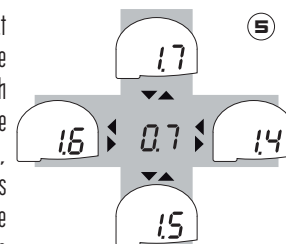
②



③



④




⑤

BLOCKING FUNCTION (masking) of the victim in the vicinity



ARVA EVO³⁺ CB

Note: This method is one of the options for resolving the situation.




Begin your primary search if necessary...

- In the secondary search phase, if the device detects a multi-victim situation, the  will light up, meaning your device has detected several transmitters around you ①.
- Then continue your search, following the standard method for a single buried victim.
- The device will automatically lock onto the device emitting the signal which is the strongest, and therefore theoretically the victim closest to you.

You have found the first victim (V1); locate the person with your avalanche probe and mark how they lie .

You can therefore switch the device to the BLOCKING FUNCTION . In order to switch the device, quickly activate selector into the emitting position followed by the receiving position. As soon as you are in BLOCKING mode, the sound cuts out and only CE appears on the screen for 3 seconds. The device's software 'blocks' the signal in the vicinity (that of the victim discovered) and gives you the next signal received with a distance and direction .

Example:

- Having located victim V1, the device indicates via pictogram  that a multiple burial scenario is present ①.
- Remain level with the discovered victim V1  and quickly activate the emitting/receiving selector. You are then in BLOCKING MODE . The device continuously displays CE for 3 seconds and then gives you a distance and a direction for the next victim. The signal of victim V1 is masked temporarily.
- Travel in the new direction indicated to locate the signal of victim V2.
- Once the device has honed in on victim V2, the device displays CE again AND all directional arrows are switched on simultaneously: this means that your device has indeed honed in its reception on the new signal
- Once this device has honed in on the new signal, it operates in the standard way for a single victim buried. Operate in secondary and final search if necessary.

N.B: The BLOCKING function (or masking) operates when the buried devices are dissociated one from another in terms of emission. One device may conceal another. Ensure that you control the whole of the avalanche.

If, having activated the BLOCKING function, your device leads you back to the first victim V1, repeat the procedure. This means that the device has not honed in its signal on V2.

If CE is still displayed without giving directions, remove from V1 location and repeat the procedure with the emitting/receiving button.





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F **Caractéristiques techniques :**

- Emetteur / Récepteur 457 kHz ±20 Hz
- 3 antennes
- Recherche automatique 100 % numérique
- Indication direction et distance
- Icône multi-victime (1, 2 ou 3 et plus)
- Fonction marquage de victime pour scénario multi victimes
- Mise en route par simple bouclage des sangles
- Test pile sonore et visuel.
- Auto contrôle en émission
- Largeur de bande de recherche de 40 m !
- Poids 220 g - Autonomie + 250 heures
- Alimentation 4 piles alcalines AAA/LR03
- Réalisé suivant norme européenne ETS 300 718

GB **Technical characteristics:**

- Transceiver 457 kHz ±20 Hz, international frequency
- 3 antennas
- Automatic search in Standard Mode (Digital)
- Distance and direction indicator
- Multiple victims icon (1, 2 or 3 and more)
- Marking function for multiple burials situations
- Switch on by inserting end of strap into transceiver
- Visual and auditory battery test
- Self tests when switched on
- 40 m search band width
- Weight 220 g. Autonomy: more than 250 Hours (Emitting)
- Requires 4 alkaline batteries AAA/LR03
- Manufactured in accordance with European standard norms ETS 300 718

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RETE Declarations of Conformity

Hereby
Name of manufacturer : AsteelFlash France
Address : 43, rue du Vieux Chêne
Zip Code : 38240
City : Meylan
Country : France
Declares that the avalanche beacon
Type designation : EVO3+
Trademark : ARVA

is in compliance with the essential requirements and other relevant provisions of directive 1999/5/EC
The compliance of the device has been evaluated according to the Electromagnetic compatibility standard test : FCC CFR 47 part 15, Subpart C
The complete declaration of conformity is available at the address above.
Name : TORRES
Fonction : Establishment Development Director
Date : 19/08/2011
Signature :

FCC requirements: - FCC ID: 09BARVADU3

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 instruction, 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 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 circuit different from that to

which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- Information to user:
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Internationaler Vertrieb / Distribuzione internazionale /
Distribución internacional
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