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## NeroHero owner's manual

We are happy that you have chosen a helmet by Icaro2000, designed to offer the greatest possible protection, comfort and style in your favourite sport.

This high-quality, certified product is accompanied by a manual that provides details on specifications, personalization, use and care. We recommend reading the manual to optimize the helmet's performance.

We have decided to help the environment by not printing the manual. You can find the latest version of this document online at the following link:

<https://bit.ly/3vHK9MS>

You will also find a link to this document on our website **www.icaro2000.com**, at the page for the helmet you have just bought.

Or scan the QR code below using your mobile device:



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Icaro 2000 congratulates you on your purchase of **NeroHero**, a very cool helmet for air sports, but equally suitable for land sports. Its beautiful shape reflects its **sophisticated streamlining**, culminating in the **tailpiece** that looks fantastic and prevents any accidental damage. The **carbon** used for the outer shell gives it a very distinctive colour and appearance.

Other **new features** of NeroHero include an **inner cap** in the high-tech fabric **Coolmax**, and two **outer shells** that optimize fit and comfort. Characteristics that hallmark all our helmets are the **Italian design**, the appealing **style**, and the **quality** of a helmet made exclusively in Italy. We are sure that you will love your NeroHero helmet!

The principal purpose of our helmets, **safety**, has been achieved without sacrificing comfort or aerodynamic performance, by virtue of the innovative technology that we have applied.

**Icaro 2000 recommends the use of certified helmets only.**

Our network of distributors worldwide ensures the availability of parts and service wherever you practice your sport.

For further information or service, please consult your nearest Icaro 2000 retailer, or contact the company direct at:

## **Icaro 2000 srl**

via Molino 4  
21014 Laveno Mombello - VA  
ITALY  
Phone: +39-0332-648-335  
Fax: +39-0332-648-079  
e-mail: [staff@icaro2000.com](mailto:staff@icaro2000.com)  
website: <http://www.icaro2000.com>

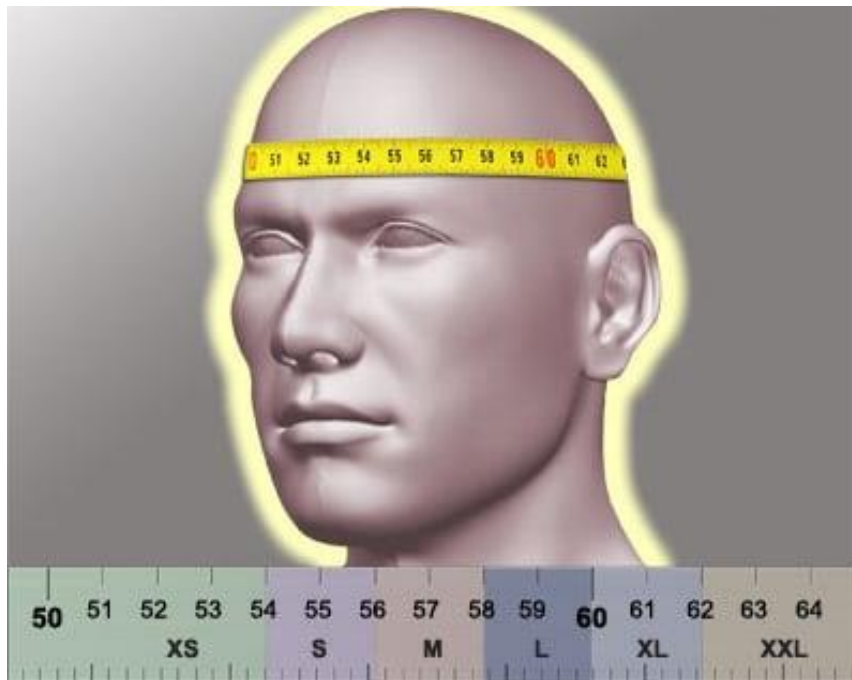
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## General information

### Choosing and purchasing a helmet

When you purchase a helmet, the most important moment is choosing the **right size**. If you have never purchased a helmet, you probably don't know your own size. The size of a helmet is specified by the **inner circumference** of the internal padding. The size number therefore corresponds to the head circumference in centimetres.



Take your time when choosing a helmet. Try several, and follow these criteria:

Put the helmet on and fasten the strap:

- The helmet should not be so loose that it moves around, but neither so tight that you can feel a continuous pressure on your head
- A helmet that is too large may slide down and obstruct your eyes
- Try to pull it off, moving it back and forth: if it tends to slip off or move around, it is too large
- Lean your head forwards, grip the helmet's rear edge, and try to pull the helmet off. If the helmet slides off, it is not suitable for the shape of your head.
- For **NeroHero**, there are **two versions** of the **carbon outer shell**, one larger for the sizes 60 and 61, and a smaller version for sizes 53-59. It is important to choose the correct version. If you are in doubt whether to opt for the larger helmet with size 60, or the smaller helmet with size 59, we recommend choosing the larger version. The larger helmet can be adjusted using the replaceable inner caps as described below. On the other hand, there is no way of adjusting the smaller size 59 helmet if it feels too tight.

If, while trying on the helmet, it does not perform satisfactorily for just one of these criteria, you should try another size or another model.

When compared with the jet, or open-face, helmet, a full-face helmet also guarantees protection for the chin area. Consider this carefully when you are choosing your helmet.

Never purchase a second-hand helmet, even if the price is good. There is no way of discerning its real conditions (whether it has been involved in an accident, etc.).

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## Structure of the NeroHero helmet

- **Outer shell:**
  - NeroHero is made in **full carbon**, the most prestigious material for a helmet's outer shell, **lighter** and offering a **higher performance** when compared to polycarbonate and fibreglass. Carbon fibre offers **optimum shell strength** for greater safety particularly in high-speed impacts, and in fact NeroHero is a helmet constructed with the same technology as used in military applications.  
The **lower weight** of the helmet reduces neck strain and whiplash potential and so also contributes to safety.  
These tangible benefits are accompanied by carbon's **unique appearance** that makes NeroHero a spectacular, eye-catching object, with no need for extra graphics: the beautiful fibre texture and its very cool colour make it unmistakable.
- **Hand-crafted individuality:**
  - NeroHero is a **hand-made product**. Its alluring shape is based on complex curves that render the crafting of the interwoven carbon fibre a challenging process. Sometimes a helmet may show slight **irregularities** in the weave texture. These are **not defects** and they do not alter the helmet's safety performance. They are simply an indication of the fact that every NeroHero is individually crafted by Italian artisans. Any irregularities in the carbon weave can be considered as **marks of quality**.
- **Crushable foam inner shell:**
  - In NeroHero the inner shell in **expanded polystyrene** is very thick, enabling it to pass the demanding tests required for **EN 966 certification**. It may be damaged even by a minimal blow, and in this case the helmet should be replaced. This is part of the helmet's intrinsic protective role. In fact, polystyrene is easily deformable, and in this context its function is to **absorb shock** by means of deformation and/or partial destruction. A more rigid material would not have the effect of dissipating impact energy, and so it would transmit all the shock energy to the head.
- **Comfort lining:**
  - NeroHero has a comfort lining comprising a **cap** in the high-technology fabric **Coolmax**, which increases comfort by wicking perspiration away from the head and enabling it to evaporate rapidly, keeping you cool and dry. Every NeroHero helmet has a label that guarantees the use of this famous new textile, which is also soft to touch and so makes the product even more comfortable.
  - **5 caps are available**, with size identified with a label. See below, under **Specifications**, for the sizes. The cap is quick and easy to change for a better fit. See below, **Personalization**, for instructions on changing the inner cap.
- **Vents:**
  - There are two small apertures at the front, and two at the back of the helmet, plus two large channels between the internal padding pieces. These features ensure good ventilation for the head inside the helmet.



- **Micrometric chin strap:**

- This has a rapid fastening system. To **release the strap**, you just have to pull the red tab. The strap is **padded** with soft, comfortable fabric. The canvas part of the strap can also be adjusted in length, with millimetric precision. Simply adjust its length using the buckle. The strap system is designed for controlled breakage in the case of impact.



- **Visor:**

- NeroHero is always sold with a visor. There are **3 visor colours** available: transparent, tinted brown and mirror. Please bear in mind that the mirror visor is particularly delicate. All our visors are **anti-fog, anti-scratch**, and have full **UV protection**.

In a free flight helmet, a visor has been shown by wind tunnel tests to be necessary to obtain the best possible **aerodynamic efficiency**.

Such studies demonstrate that a helmet with just an aerodynamic tail, without a visor, offers only a very small reduction in wind resistance.

The visor also not only increases the helmet's **passive safety** characteristics, but also its **active safety**, by increasing the width of the field of vision when compared to the use of any type of sunglasses.



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- **Visor fixing system:**

The visor's **damped closing system** is precise and effective, an exclusive Icaro 2000 feature. It enables continuous adjustment, without fixed intermediate positions.

In this way, during flight, the pilot can choose the **degree of ventilation** required: from an almost hermetic seal when it is completely closed, right through to completely open.

This fastening system is also essential to ensure that the aluminium disc does not project from the outer shell by more than 5 mm, ensuring that the paraglider lines cannot get caught on the helmet.

There is an O-ring inside the aluminium disc which provides the **friction** necessary to adjust visor position continuously and smoothly.

## Technical specifications

- **Weight:**

- NeroHero helmet, full carbon, with large outer shell, including visor: 1,060 grams
- NeroHero helmet, full carbon, with small outer shell, including visor: 920 grams

- **Sizes:**

- The NeroHero helmet is available in **two outer shell sizes**, with **five Coolmax caps**, ensuring a perfect fit for the head. The cap is quick and easy to change. If the helmet is not a perfect fit, we can send you a new cap free of charge, independently from where you bought the helmet.

Another important benefit of this internal padding system is that you can easily remove it and replace it with a new cap, or simply wash it.

- Sizes for the larger helmet
  - XL = size 61
  - L = size 60
- Sizes for the smaller helmet:
  - M = size 58 - 59
  - S = size 56 - 57
  - XS = size 53 - 55

## Certification

- NeroHero was tested by the Italian testing laboratory CSI, an Italian laboratory authorized by Italy's Ministry of Transport.
- NeroHero was designed specifically for **free flight pilots**, in accordance with the respective European standard (EN 966). It is also ideal for land sports.

## Using the helmet

Once you have **chosen** the most suitable helmet, make sure that you **wear it correctly**. For safety, it should always fit snugly, and the strap should be tightly fastened.

A helmet will never be able to guarantee total protection for the head when subject to the forces produced by whatever type of impact. However this is no excuse to forego wearing a helmet. You should **always wear your helmet**, in order to exploit the protection that it provides, whatever impact may occur.

## 4 things that you should never forget

1. **Before using the helmet**, read all the instructions, and follow the suggestions carefully to ensure a correct fit.
2. **Do not use the helmet without fastening the strap**. An unfastened helmet will fall off during the first impact, leaving the head defenceless for successive impacts. There is also the risk of it falling off during flight.
3. **Do not** fasten the helmet **using just the velcro**. The velcro that may be present on the strap serves

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purely to stop it flapping in the wind.

**4. To ensure maximum performance, never modify your helmet, whatever the circumstances.**

## In case of accident

- If the accident happens to you:
  - The inner shell will be deformed – though the deformation may not be visible to the naked eye – because it has absorbed the impact.
  - **After an accident, even if the impact was minor, the helmet should be replaced, regardless of whether there is visible damage or not.**
  
- If you witness an accident:
  - Keep calm.
  - Report the accident immediately, if possible by phoning for an ambulance (dial 118 in Italy). Only medically-qualified personnel know exactly how to deal with injuries.
  - Never move an injured person, unless this is absolutely essential because of a situation of greater danger.  
If the spinal column is damaged, moving the injured person could damage the spinal cord, causing permanent paralysis.
  - If the victim is wearing a helmet, do not remove it, but open the visor to facilitate respiration.
  - Keep the victim calm, and, if possible, cover him. Shock provokes shivering and a sensation of cold.
  - Do not give the victim alcoholic drinks.
  - Stem the flow of blood from wounds, protecting your hands with gloves or similar, throwing them away later if they have been dirtied with blood. Do not apply tourniquets: if you place a tourniquet in the wrong position, you could worsen the situation.
  - Never put the victim into a private car. Wait for the ambulance. If the victim is conscious, talk to him or her and try to calm him or her down.

## Helmet maintenance

The helmet protects your head, and so it should be **treated with care**.

The **visor** should be **changed** when it has **scratches** preventing satisfactory vision.

The helmet can be **seriously damaged by**:

- Paints and varnish
- Petrol
- All types of chemical solvent
- Excessive heat (do not leave your helmet exposed to the sun)
- Inappropriate modifications

Scrupulously follow the instructions provided by the manufacturer.

If you think that the helmet that you have chosen is not right for the shape of your head, replace it... and this time choose more carefully!

A helmet does not have a fixed lifespan. However, it is a good rule to replace it after five years of correct use.

### Important!

- **THE EXTERNAL SHELL OF THE HELMET SHOULD NEVER BE ALTERED IN ANY WAY.**
- **THE INTERNAL PARTS IN POLYSTYRENE SHOULD NEVER BE CHANGED, ADAPTED OR REMOVED.**
- **NEVER APPLY PETROL, DILUENTS, TOLUENE OR OTHER SOLVENTS OR CHEMICAL SUBSTANCES TO ANY PART OF THE HELMET.**



## Personalization

### Removal and reassembly of internal padding

**Important: do not use sharp or pointed tools such as screwdrivers, etc., unless absolutely necessary, in order to prevent scratching or damaging the helmet and its structural components**

It may be necessary to remove and reassemble internal padding in order to personalize the helmet’s fit, or to wash the padding pieces.

NeroHero has a **comfort lining** in Coolmax that can be removed and re-installed in order to personalize the helmet’s fit, or to wash the lining.



Nerv’s 2.0 comfort lining, comprising a cap in **Coolmax**, is fixed to the polystyrene inner shell by means of a series of Velcro strips. It is easy to remove. Just ensure that you detach the Velcro strips by holding and pulling the strips themselves. Don’t just pull the inner cap out from the helmet.

#### Reassembly

To reassemble the lining, reverse the removal sequence, ensuring that the Coolmax cap is positioned centrally and symmetrically.

When you are sure that the cap is in the correct position inside the helmet, press firmly over the Velcro fastening strips in order to fasten the lining.

## Visor removal and assembly

The visor can be removed if it has to be cleaned thoroughly or replaced.

**Important:** when fitting and removing the visor, be careful not to scratch the surface of the helmet or visor with the screwdriver or other sharp or abrasive objects.

Don’t touch a mirror-finish visor with your hands, because it may become opaque as a result of the acidity of perspiration.

If you decide to fly without the visor, remove all the components that are not part of the helmet shell itself, and cover the holes with the adhesive pads supplied.

### Removal

- Place the helmet onto a table, ensuring that it is entirely stable, and lower the visor into its position of normal use.
- Unscrew the two lateral fixing screws. When the first screw has almost been completely unscrewed, be careful not to lose the rubber O-ring, positioned inside the aluminium and Mylar washers between the visor and the outer shell.



- If you decide to fly without a visor, remove all the elements that are not part of the outer shell, and cover the threaded bushes in the shell using the stickers provided.
- It may be periodically necessary to replace the rubber O-rings in order to guarantee the correct damping of visor closure

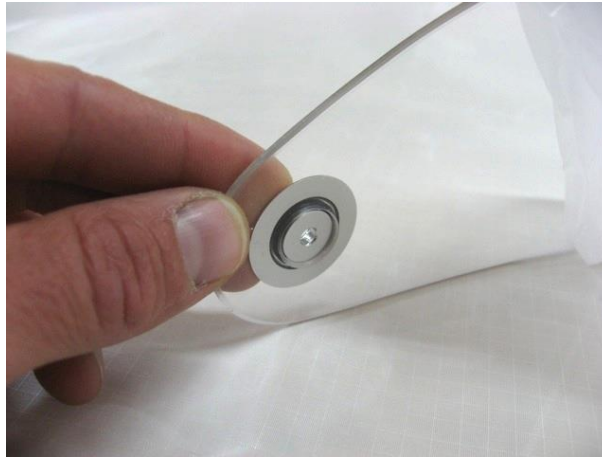
### Assembly

On each side of the outer shell, there is a single hole with a threaded bush.

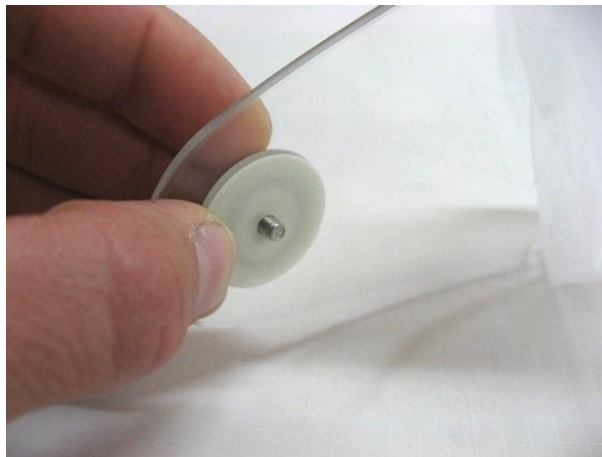
- Place the rubber O-ring into the circular housing on the aluminium washer.



- Then place the aluminium washer with the O-ring into one of the holes on the side of the visor.



- Insert the screw into the aluminium washer and then position the Mylar washer on the inside of the visor.



- Holding the washers and the screw in their correct position in the hole in the visor, position the screw into the threaded bush on the helmet, and screw it in using the hex key supplied with the helmet.



- Follow the same procedure for the other side of the helmet.

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## Cleaning

### Visor and external shell

- Use **only a damp microfibre cloth** for cleaning. If the external shell is soiled with mud, insects etc., soak a microfibre cloth with warm water, wring out excess water, place on the helmet and leave for a few minutes. This will loosen the grime. Use damp microfibre cloths to gently clean the outer surface of the helmet. Dry with a dry microfibre cloth. **Do not use solvents, chemicals or petroleum-based products** which may cause damage to the helmet's structure.
- Do not rub the visor too hard.

### Care for visors with anti-fog coating

The **inner surface** of a **visor with anti-fog coating** is slightly sticky to touch, and this is normal, a characteristic of the anti-fog coating. The **coating should not be rubbed off** or treated with any solvent or other substances. Handle the helmet with care, and try not to touch the visor's inner surface. When you are not using your helmet, don't place sundry items such as gloves, radio etc. inside the helmet. Don't place the helmet on the ground in such a way that the visor could come into contact with dusty surfaces, grass or other plants. When you are not using the helmet, store it in the helmet bag provided.

### How to clean a visor with anti-fog coating

**Do not attempt to clean the inside of the visor by rubbing with any type of cloth.**

Remove the visor from the helmet as described above. Prepare a **basin of warm water** with **one drop of washing up liquid** mixed into it. Holding the visor by its edges, place it into the water and move it about gently for less than one minute. Remove from the water, place on a surface and leave it to air dry. **Do not use a cloth or towel to wipe the inside of the visor.** Once the visor is dry, its **outer surface** can be wiped with a dry microfibre cloth. Never wipe the inner surface. No sprays, chemical or liquids should be used.

## Internal Parts

### Interior polystyrene

- Use **only a damp cloth**.
- Leave to **dry** at room temperature, protected from direct sunlight.

### Comfort lining

- Hand-wash carefully, using just water at maximum 30° C and **neutral soap**.
- Rinse in cold water.
- Leave to **dry** at room temperature, protected from direct sunlight.

## Accessories

Visors are available in three different colours, transparent, tinted brown and mirror. All our visors are anti-fog, anti-scratch, and have full UV protection. They are easy to replace, enabling you to give the helmet optimum performance in differing light conditions.

In addition, the internal structure of the helmets enables the application of a range of radio accessories.

For further information, see our website:

[www.icaro2000.com](http://www.icaro2000.com)

## Important information

Pilots who are used to flying with just sunglasses or even with no eye protection at all **may take a few flights to get accustomed to the visor**. If you don't feel comfortable with the visor to start with, just lower and raise the visor during your first flights with the helmet until you get used to it.

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In conditions of high humidity and/or large temperature excursions, the visor may fog. On such occasions you will immediately appreciate the difference between flying with sunglasses and with a visor: in the latter case, you just have to open the visor slightly to obtain the complete clearance of any fogging.

A helmet with a visor produces a different air sound, and it makes it easier to hear your flight instrument.

If you rotate your head into a lateral position, the detachment of the airflow from the visor could give rise to anomalous sounds (the jet effect), which disappear immediately after the normal flight position has been resumed.

- **Never fly without a helmet**
  - Your life is too precious to risk losing it just because you have forgotten something <sup>[1]</sup><sub>[SEP]</sub>
- **Use only a helmet with EN certification**
  - European EN certification was developed differently for all different activities to offer the best possible protection
  - All our helmets are constructed in accordance with the regulations contained in the EN standard
  - Never trust a helmet that has no label guaranteeing an EN certification
- **We recommend the use of a full-face helmet.**
  - A full-face helmet offers improved protection in every situation. <sup>[1]</sup><sub>[SEP]</sub>
- **Never modify your helmet for whatever reason.**
  - Modifications could reduce the level of protection, and could annul the helmet's certification.
- **Never use headphones under the helmet.**
  - Any rigid components placed inside the helmet, between polystyrene lining and the head, could become percussive and damaging elements.
- **Always ensure that the chin strap is tightly fastened.**<sup>[1]</sup><sub>[SEP]</sub>
  - If you keep your helmet in the rucksac, don't sit on it.<sup>[1]</sup><sub>[SEP]</sub>
  - Ensure that the helmet never falls to the ground or the floor.
  - Handle the helmet and visor with great care at all times.
  - After an accident, even when the impact is minimal, the helmet should be replaced, regardless of whether there is any visible damage or not.
- **Helmets and action cameras**

Many pilots mount an action camera onto their helmets in order to record their adventures. It is important to remember that **any object projecting for more than 5 mm above the level of the outer shell annuls the helmet's certification**, just as for any other modification that is not specified in the user manual. The reason for this is that an object mounted onto the external shell could become a percussive element that concentrates an impact force onto a small area. Therefore, it is potentially dangerous and reduces the level of protection that the helmet can provide. Considering that even the most compact action camera projects at least 30/40 mm from the helmet's outer shell, there is no doubt that a helmet equipped with this sort of device can no longer be considered as compliant with its respective certification. For this reason, because we at **Icaro2000** wish to offer the highest possible level of protection for our customers, we recommend **not fitting action cameras** or other devices onto the outer shell of a helmet.

**Icaro 2000 wishes you happy and safe flying.**

Icaro 2000 is committed to the ongoing development of its technology, and therefore it reserves the right to modify the characteristics of its products at any time and in any way, without prior notice.