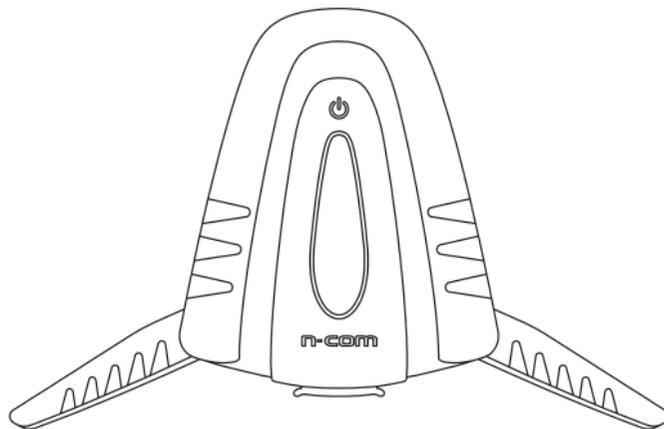


# **ESS**

EMERGENCY STOP SIGNAL

## **MULTI**



**n-com**  
NOLAN COMMUNICATION SYSTEM

**Nolan**group

EN



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**USER INSTRUCTIONS AND SAFETY**

Congratulations on your purchase of an N-Com product.

N-Com **ESS MULTI** was made using the most advanced technologies and the best materials.

Check on the website [www.n-com.it](http://www.n-com.it) the updated list of compatible helmets.

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**Firmware Version: 1.0x**

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**REFERENCE STANDARDS**

The products of the N-Com line are in compliance with standards as per the table below:

<b>ESS</b>	The system complies with the main safety requirements and other applicable provisions of Directive 99/5/CE, Directive 2009/65/EC, Directive 2011/65/CE, Directive 2012/19/EU
<b>Battery</b>	Directive 2006/66

The Declarations of Compliance can be downloaded from the website [www.n-com.it](http://www.n-com.it) (Download section).



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## 1. WARNINGS AND SAFETY

Read this User Manual carefully, as well as the simple rules listed below. Failure to comply with these rules may lead to dangerous situations.

**Caution:** The product cannot be used in official or non-official competitions, motordromes, circuits, racing tracks and the like.

**Caution:** Installation of the N-Com **ESS MULTI** system results in a weight increase of approximately 55g, which is added to the weight of the helmet and of the other accessories.

### 1.1. Road safety

Always obey all Traffic Regulations in force. While riding the motorcycle, your hands should always be engaged in actually riding the vehicle. Any operation to the N-Com system must be carried out with the vehicle stopped. Specifically:

- In all cases, obey the Traffic Regulations and remember that riding the motorcycle has absolute priority over any other maneuver.
- The ESS MULTI system is equipped with an emergency brake light (ESS – Emergency Stop Signal). The ESS MULTI system IS NOT intended to replace the stop or brake lights fitted on the motorcycle, consequently its operation alone is not enough for proper brake signaling.
- Make sure that the use of the emergency brake light (ESS – Emergency Stop Signal) is not in conflict with the regulations in force in the country where you will be travelling.

## 1.2. Switching on the system in safe environments

- Do not turn on the N-Com system whenever their use is forbidden or when the devices can cause interference or dangerous situations.
- Turn off while refueling. Do not use the N-Com system in filling stations. Do not use the device near combustible materials or chemical products.
- Turn off in proximity to explosive materials.

## 1.3. Appropriate use

Use the device only in the normal position, as described in the product documentation. Do not attempt to disassemble, tamper with or modify any part of the N-Com system.

**Caution:** An incorrect installation of the system in the helmet may alter the aerodynamic and safety characteristics of the helmet itself, thus creating dangerous conditions. Install the N-Com system according to the instructions provided in the product documentation. In case of doubt, please contact your local N-Com dealer.

## 1.4. Qualified personnel

- Only qualified personnel can carry out technical assistance on this product. In case of any malfunction, always turn to your local dealer.
- The helmet is a safety device. Tampering with it and/or with the electronic system inside the helmet, in addition to invalidating the product warranty, can also lead to dangerous situations.

## 1.5. Accessories and batteries

- Only use the type of batteries, battery chargers and accessories approved by Nolan for the specific model.
- The use of a battery type different from the recommended one may lead to dangerous situations and invalidate the warranty.
- Contact your local dealer to see about the availability of approved accessories.
- When disconnecting the power supply cable of any accessory or of the battery charger, always grab and pull the plug not the cable.
- Do not use batteries for purposes other than the prescribed ones.
- Never use batteries or battery chargers that turn out to be damaged.
- Do not short-circuit the battery.
- Keep the battery at a temperature between **0° / +32°C (charging); -20° / +55°C (in use)**.
- Danger of fire or explosion: do not throw the batteries into a fire nor expose them to high temperatures!
- Do not throw out batteries together with household refuse. The batteries should be disposed of in compliance with local regulations.
- Do not wear the helmet while the battery is recharging.
- The helmet should never be left within the reach of unsupervised children in order to prevent damage to their health caused by access to the batteries.

<b>Battery ESS system</b>	Li-Po 523450P	Lithium 3,7 – 1000 mAh
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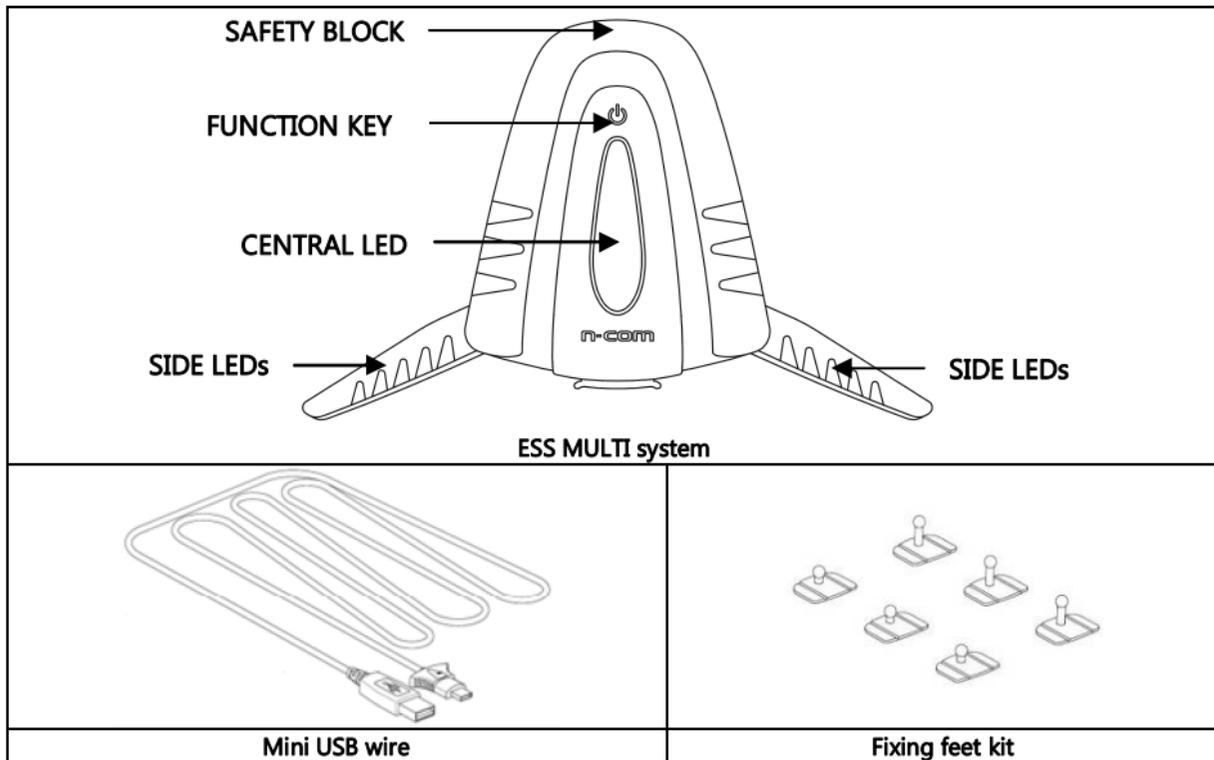
## 1.6. Disposal

Refer to this user manual and to manuals related to other parts of the N-Com system in order to disassemble the system from the helmet. Once the system has been disassembled, dispose of it according to the following instructions:



- The presence of a crossed-out wheelie bin indicates that in the European Union the product is subject to separate collection at the end of its useful life.
  - Do not dispose of these products together with undifferentiated urban waste.
- 
- The proper disposal of obsolete equipment contributes to preventing possible negative consequences on people's health and on the environment.
  - For more detailed information on the disposal of obsolete equipment, contact your municipality, a waste disposal service or the store where the product was purchased.

## 2. CONTENT OF THE PACKAGING



### 3. INSTALLATION

#### 3.1. Installing the system

The ESS MULTI system must be positioned in the back of the helmet, using the adhesive feet supplied as standard equipment.

- Thoroughly clean the surface of the helmet where the feet will be applied;
- Remove the clear protective film from the ESS system;
- Open the side LED lights of the system, as indicated in Fig. 1;
- Make sure the safety block is properly listed, as shown in Fig. 2. If the safety block is closed, lift it as explained in the chapter entitled "Removal";
- Insert the fixing feet in the device (Fig. 3);
- Make sure the system is properly positioned on the helmet shell.

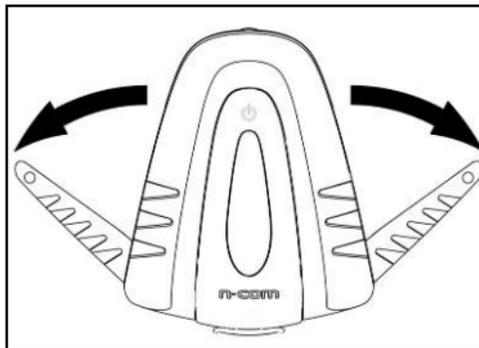


Fig. 1

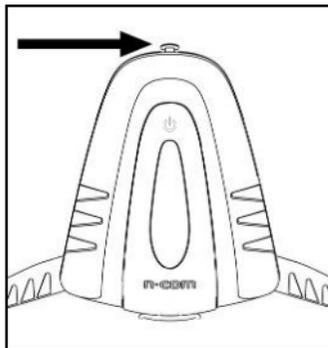


Fig. 2

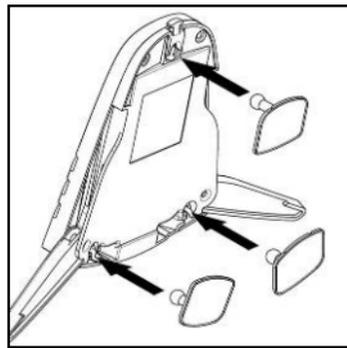
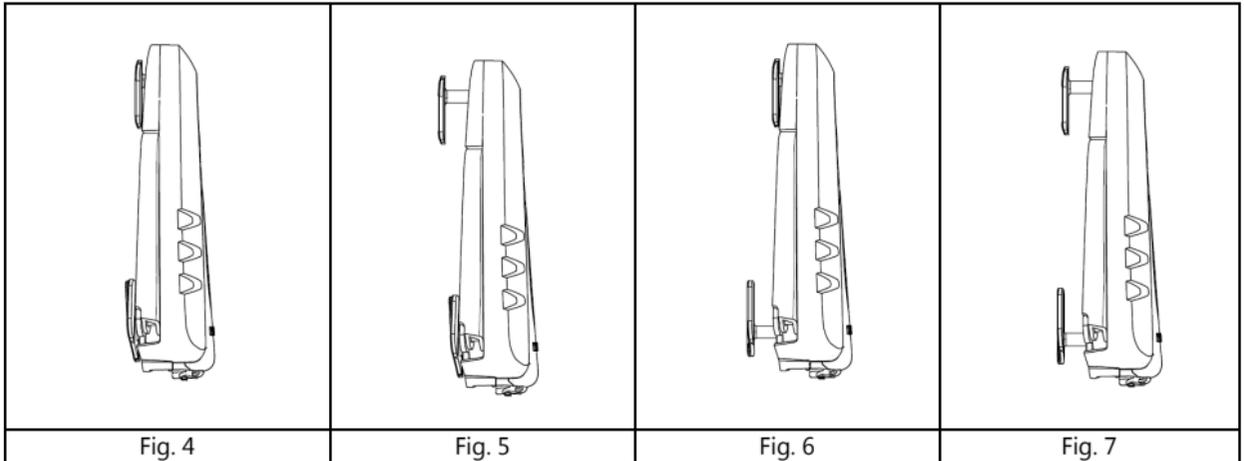


Fig. 3

If necessary, depending on the different types of helmets, replace one or more thin feet with thicker ones, until you find the combination that allows the e-box to properly stick to the helmet (Fig. 4-7).



**Important:** you need to position the ESS MULTI system so that it is vertical or with an inclination of  $\pm 30^\circ$  with respect to the vertical axis while you are riding, so as to allow the triaxial accelerometer to properly measure the motorcycle deceleration. Based on the type of helmet used and the riding style, choose the combination of feet (thick-thin) that allows proper positioning.

- Remove the protective film from the feet and apply the system to the helmet (Fig. 8-10);
- Close the safety block by pressing it downward, as shown in Fig. 9;

**Important:** If the position is less than perfect, remove the foot from the helmet immediately and try again. See the following chapter for instructions on how to remove the system.

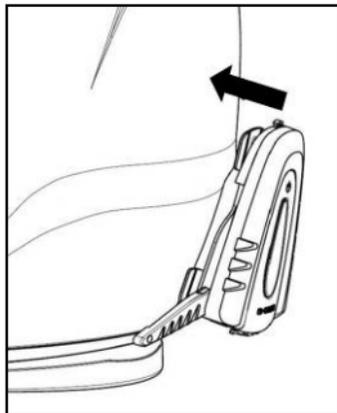


Fig. 8

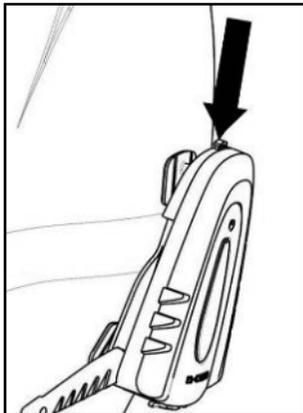


Fig. 9

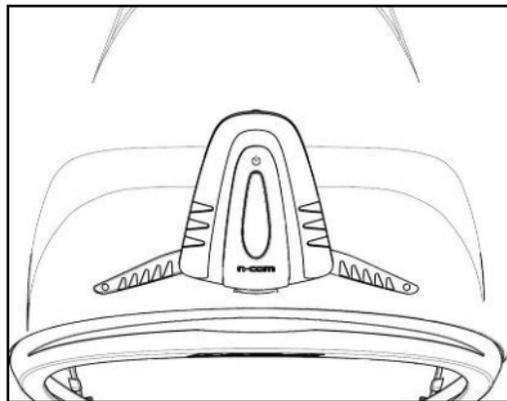


Fig. 10

**NB:** It will take up to 24 hours for the adhesive to stick completely. During this time, do not expose the helmet to atmospheric agents. During the first 12 hours, do not remove the system from the feet.

**Caution:** Once the adhesive is applied, it cannot be reused in a different position and will have to be replaced once removed.

## 3.2. Removing the system

- Lift the safety block of upper foot using a flat head screwdriver (or a similar tool), as indicated in Fig. 11.
- Release the ESS MULTI system from the fixing feet (Fig. 12);
- Remove the feet from the helmet.

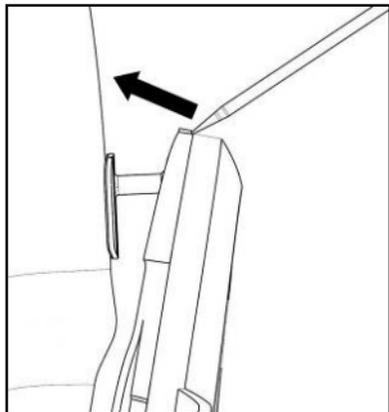


Fig. 11

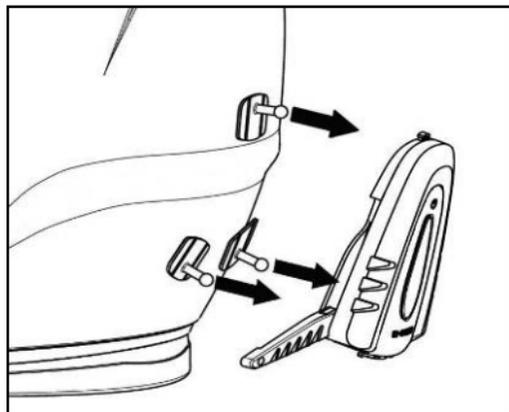
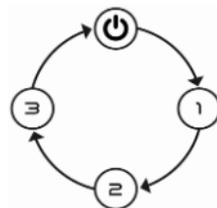


Fig. 12

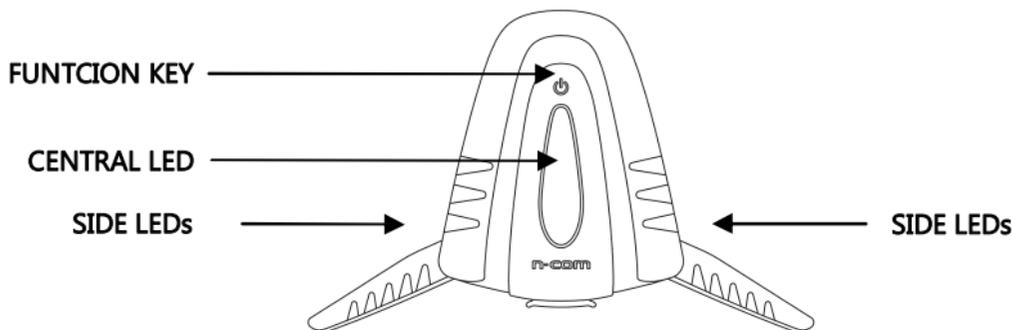
## 4. BASIC FUNCTION

The ESS MULTI system features a menu with 3 operating modes: EMERGENCY STOP SIGNAL, REAL LIGHT, POOR VISIBILITY LIGHT.

To scroll through this menu, briefly press the function key. Every time you press the key, the system switches to the next mode.



MODE		FUNCTIONS
0	ON/OFF	Switching on/off of the system. Setting mode.
1	EMERGENCY STOP SIGNAL	Emergency stop signal.
2	REAR LIGHT	Emergency stop signal. Stable rear light.
3	POOR VISIBILITY LIGHT	Emergency stop signal. Intermittent light in case of poor visibility.



<b>Switching on</b>	Press the Function key until the central LED turns on. Every time it is turned on, the system positions itself in mode 1.
<b>Switching off</b>	To switch off the system, put it in mode 0. Briefly press the Function key and release it to switch from one mode to the other. Switch off is confirmed by the central LED flashing 4 times.

**N.B.:** It is recommended to turn off the ESS system on the Rider helmet in case of a passenger.

#### **4.1. Auto On / Off function**

The system does not have to be turned on and off every time you use the motorcycle: thanks to the triaxial accelerometer, if the helmet does not move for more than 60 seconds, the **ESS MULTI** system goes into “deep sleep” mode. The system is completely turned on as soon as movement is detected, going back to the mode it was in before.

## 5. EMERGENCY STOP SIGNAL (mode 1)

The ESS MULTI system is equipped with a LED system to assist emergency braking. In case of sudden braking, all LEDs on the ESS flash for a few seconds.

The sensitivity of the stop signal can be adjusted in 3 different levels:

- Low: the stop signal turns on during sudden braking only
- Medium
- High: the stop signal turns on during slight braking as well

The ESS MULTI system is pre-set on HIGH. To change levels, proceed as follows:

- put the system in the **Setting mode** (starting with the ESS MULTI system turned off, press the Function key and keep it pressed for more than 6 seconds, until the central LEDs start to flash quickly);
- **SETTING THE LOW LEVEL:** press the Function key and keep it pressed until the LEDs flash once. Release the key to confirm your choice. The system will now turn off.
- **SETTING THE MEDIUM LEVEL:** press the Function key and keep it pressed until the LEDs flash twice. Release the key to confirm your choice. The system will now turn off.
- **SETTING THE HIGH LEVEL:** press the Function key and keep it pressed until the LEDs flash three times. Release the key to confirm your choice. The system will now turn off.

The switch from one level to the other occurs according to the following sequence:



**N.B.:** The emergency stop signal function is active in modes 1, 2, 3.

## **6. REAR LIGHT (mode 2)**

The tail light makes it possible to activate the side LEDs of the ESS MULTI system, keeping them on during the entire ride.

If the emergency brake light is activated during braking, all LEDs will start flashing.

## **7. POOR VISIBILITY LIGHT (mode 3)**

The poor visibility light allows you to be more visible in case of fog or limited visibility. If selected, the side LEDs of the ESS MULTI system will flash intermittently.

If the emergency brake light is activated during braking, all LEDs will start flashing.

## 8. BATTERY AND RECHARGE

While the system is operating, it indicates when the battery has about 1 hour of charge left. The system LEDs start to flash to indicate the "RESERVE" status. This warning is repeated every 10 minutes.

### 8.1. Recharging the system

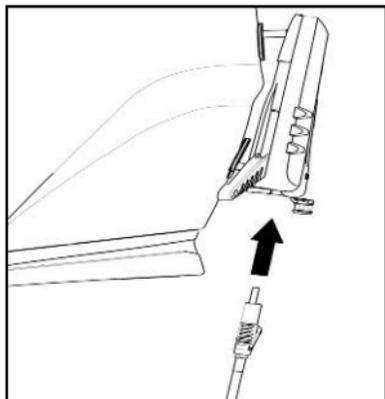


Fig. 13

- To charge the system, hook it up to a USB outlet powered with the USB-mini USB cable supplied as standard equipment.
- During the charge, the central LEDs of the ESS MULTI system flash.
- The LEDs turn off once the battery has been charged.

**N.B.:** If the device has not been charged for a long time (a few months), it may not be possible to turn on the system during the first few minutes of the charging, as the voltage may drop below the minimum limit.

## 9. LIMITED WARRANTY

With this LIMITED WARRANTY CERTIFICATE, Nolangroup warrants this Product to be free from defects in material and workmanship at the time of its original purchase by the buyer.

We invite you to:

- Read the cautions pertaining to safety and proper use.
- Read the warranty terms and conditions.
- Keep the originals sales receipt. This must be shown in case of repairs covered by warranty. In these cases, the product has to be taken back to the dealer where it was purchased.

### 9.1. Warranty coverage

If any defect covered by this limited warranty certificate is discovered within 2 (two) years from the purchase date shown on the tax receipt, Nolangroup shall repair or replace the defective product through its distribution network after having verified the defect. Nolangroup shall supply all the material and labor that is reasonably required to remedy the defect, except in those cases where the damage is caused by one of the items listed in the following paragraph "Exclusions and limitations of the Coverage".

### 9.2. Exclusions and limitations of the coverage

This warranty only covers defects in materials and manufacturing. Nolangroup shall not be considered responsible for product defects that can be attributed, either partially or in full, to any other cause, including but not limited to:

- Defects or damages resulting from using the Product in conditions that differ from the usual ones.

- Damages caused by improper use not conforming with normal operation in accordance with the product operating and maintenance instructions provided by Nolangroup.
- Negligence and normal wear of internal and external parts.
- Any damage caused by an accident;
- Any change or modification made to the helmet or to the N-Com system by the user or by third parties.
- Colour changes or damages caused by exposure to harmful chemical products.
- The use of incompatible accessories that are not part of the N-Com product range.
- Moreover, the warranty does not cover product defects caused by fortuitous events, modifications or adjustments, causes of force majeure or damages deriving from the product coming in contact with liquids.
- The internal helmet components are not and cannot be waterproof. Consequently, any improper exposure to rain, humidity, food spillages or other liquids can result in damages to the N-Com electronic devices, damages for which Nolan shall not be responsible.
- This warranty does not include those parts subject to wear and tear such as, for example, the rechargeable battery and the cables used for connection between the various N-Com systems or between the N-Com systems and other devices.
- Since Nolangroup does not supply the system on which the cell phones work, it shall not be responsible for the operation, availability, coverage, services or range pertaining to the aforementioned system.
- Whenever the product is used in conjunction with accessories or equipment not supplied by Nolangroup, Nolangroup shall not guarantee proper operation of the product/device combination, nor will it accept requests for repairs or replacements under warranty in case the product is used in such a way.

Nolangroup shall not be responsible in case the product presents limited capabilities due to the operating mode of cell phones or of other accessories or equipment not supplied by Nolangroup.

Tampering with the internal electronic card or with other parts of the N-Com system shall invalidate the warranty.

Moreover, the defects covered by this warranty do not include all those specific and subjective situations that may come up during the active use of the helmet such as, for example, comfort problems while riding or aerodynamic noises.

Nolangroup shall not be held responsible in any case for incidental or consequential damages (including, without any limitation whatsoever, damages to one or more persons) resulting from non-fulfilment of the obligations arising from this warranty as it pertains to Nolangroup products.

### **9.3. Validity of this limited warranty**

This warranty is valid only if the enclosed warranty form is duly and completely filled out with the following information:

- Product identification code
- Name and stamp of the authorized dealer.
- Product purchase date.
- Buyer's name and address.

Nolangroup reserves itself the right to not carry out repairs under warranty if the aforementioned information is removed or modified after the original purchase of the product from the dealer.

### **9.4. Procedure for the forwarding of claims**

To forward a claim covered by this warranty, the buyer has to directly notify the dealer where the helmet was purchased with regards to the defect, presenting at the same time the defective product, a copy of the sales receipt and the Warranty registration form, duly filled out as instructed above.

PRIOR TO CONTACTING THE DEALER, WE RECOMMEND THAT YOU READ CAREFULLY THE USER MANUAL ENCLOSED WITH THE PRODUCT.

AFTER 2 (TWO) YEARS FROM THE DATE OF PURCHASE, THIS LIMITED WARRANTY IS VOID FOR ALL EFFECTS AND PURPOSES.

Repairs or maintenance under warranty do not extend the period of the warranty itself. Therefore, in case the product or one of its components is replaced, this does not initiate a new warranty period, as the purchase date of the original product shall be taken into account for warranty purposes.

Only for repairs or replacement of electronic components, in the event that Nolangroup proceeds to repairing or replacing the product, said product shall enjoy a warranty period equal to the residual portion of the original warranty or ninety (90) days from the repair date (the longer period being considered).

The repair or replacement can be carried out even with regenerated components with equivalent functions.

The replaced parts or components shall become property of Nolangroup.

THIS WARRANTY VOIDS AND REPLACES ANY OTHER WRITTEN OR VERBAL WARRANTIES PROVIDED FOR BY THE LAW THAT CAN BE DEROGATED AT THE PARTIES' WILL; SPECIFICALLY, NOLANGROUP DOES NOT GRANT SPECIFIC WARRANTS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL NOLANGROUP BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO LOST PROFITS OR COMMERCIAL DAMAGES, TO THE FULL EXTENT THOSE DAMAGES CAN BE DISCLAIMED BY THE LAW.

NOLANGROUP RESERVES ITSELF THE RIGHT TO MODIFY, AT ANY TIME AND WITHOUT ADVANCE NOTICE, THE PRODUCT CHARACTERISTICS, FUNCTIONS, COMPATIBILITY AND SOFTWARE.

Some Countries do not allow the exclusion or limitation of incidental or consequential damages, or the limitation of the duration of implied warranties; as a result of this, the previous limitations and exclusions may not be applicable to you.

This warranty does not have any effect on the customer's legal rights under the national jurisdiction in force or on the consumer's rights towards the dealer sanctioned by the purchase/sale contract.

This warranty is valid throughout the European territory, and it represents the only express warranty provided by Nolangroup in relation to the sale of its own products. This warranty does not affect the rights to which the buyer is entitled and which are expressly provided for by Directive 1999/44/CE.

This warranty does not affect the consumer's rights provided for by the law, and specifically by the provisions of Legislative Decree 2 February 2002 n. 24.

## 9.5. Product identification

N-Com products are identified by means of a code that allows product traceability and identification.

The identification code is listed on the adhesive label applied to the ESS MULTI system and on the outside of the sales package.



## 10. WARRANTY REGISTRATION FORM

Product name:

ESS MULTI

Identification code

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### Buyer's Information

Name

Last name

Address

Phone

e-mail

### Dealer's stamp

Date of purchase