

## IRITRACK STANDARD ASSEMBLY AND USE

### A- IRITRACK INSTALLATION PACK CONSISTS IN THE FOLLOWING ELEMENTS

#### 1/ Iritrack Bracket

A cross-shaped bracket (A) helps fixing the Iritrack case.

This support settles thanks to 4 silent blocks or screws on a predrilled plate (B) that must be fixed at the dashboard of the car (to be easily reached by driver) by 4 screws, or by circlips (C) on safety roll-bar of vehicle -

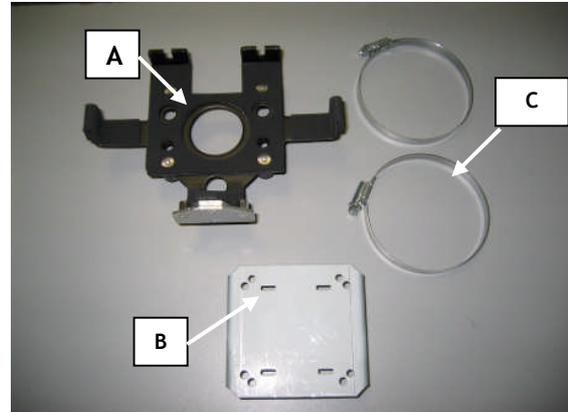
Dimensions:

Length: 185 mm

Width 133 mm

Thickness with plate: 60 mm,

Weight: 340 g



**This bracket must be installed in an accessible way to fit the Iritrack within a few minutes. Three cables will then be connected to Iritrack**



**2 / A power cable** with a Lemo connection to be clicked on the closest plug to the the blue corked-plug. This 50 cms' cable with 1A fuse is linked to (as cars are concerned) a power cable which must be connected to a continuous 8 to 36 volts power source. The consumption is 200 mA at rest and 300 mA when transmitting. **This cable acts as ON / OFF iritrack switch. It must be disconnected during long offrace stops and at your arrival at the bivouac**



**3 / A rectangular magnetic GPS Antenna** to install on vehicle roof or bonnet (chose an obstacle-free place), supplied with metal predrilled plate for none metallic vehicle, with a 3 m cable and SMA connector to connect on Iritrack direct. **Attention: this cable must not pass by door joints but through vehicle body by preintended passage holes.**



**4/ An Iridium octagonal magnetic Antenna** to install on vehicle roof or driving bonnet (chose obstacle-free place) supplied with predrilled metal plate for none metallic vehicle, with a 3 m cable and QMA connector to directly connect on the Iritrack.

**Attention: this cable must not pass by door joints but through vehicle body by preintended passage holes.**

Please note that both antennae can be installed close to each other.

### B -IRITRACK

**This element will be handed over to you during the technical and administrative checks and must be given back to us at the end of the Rally**

The Iritrack contains a face of connectors (back) and a face of buttons and warning lights (front). The front face must be installed at driver's hand (dashboard in a car, careenage on a bike) and cables must be within reach (to facilitate connections)



## TECHNICAL DEVICES

Dimensions: 170 x 125 x 68 mm Weight: 1,300 g

Functioning environment : -30°C in +55°C, stocking : -40°C in +65°C

Consumption under 12 V : standby mode : 110 mA; transmission: 300 mA

IriTrack functioning period on internal battery without external power : 1 hour in emission/reception before sleep mode

Back face



**ATTENTION:** device includes an inclinometre within its compnents which will send a warning message in case of abnormal position of the vehicle. To avoid any unjustified alarm, it is necessary during the assembly **to first fix IriTrack onto its support** and then connect the power cable. **From this moment when power cable is on, do not move the IriTrack anymore.**

### A -back

Power, GPS antenna and Iridium cables are set at the back of IriTrack.

A blue plug is used to upload IriTrack

### B -front

Front face of IriTrack must be installed on vehicle dashboard, closest to driver's hand.

Front face



It consists in 5 warning lights, 3 buttons, a microphone and a loud speaker  
warning lights indicate :

- POWER : red diode switched on = external power OK and IriTrack ON - switched off = IriTrack OFF
- BATTERY : green diode : switched on = in load - switched off = loaded
- TRANSMIT: green diode: switched on = transmit or reception - switched off : OK . Twinkling : failure issue, automatic resent of the message
- VOICE : Green diode : switched on = phone call - switched off = no communication
- LOCK : Yellow diode : switched on = lock Iridium satellite and GPS OK, twinkling = lock Iridium or GPS current (can take 2 or 3 minutes), flashing : indicate that the system is ON Power when the IriTrack works on its internal battery

3 buttons are used to :

**RED:** indicate personal accident requiring first aid in Emergency

**BLUE:** start phone conversation with race HQ .

**GREEN:** indicate major mechanical problem on your vehicle or an incident concerning another competitor

## STARTING THE IRITRACK

Once IriTrack has been fixed to its support on vehicle dashboard or in bike careenage, antennae installed on the vehicle, then you can last connect the power cable. POWER Diode ignites in red meaning that IriTrack is ON. Wait almost 3 minutes and check that the yellow diode LOCK is switched on  
Once both diodes POWER and LOCK are switched ON , the system works in a autonomous way and warning lights (as described above) permanently indicate the state of system.

## FUNCTIONING

IriTrack is a safety system which enable to send alarm messages to race HQ or to contact it in case of incident. It works on 2 modes, manual and/or automatic

### MANUAL MODE

The crew can send an alarm and make phone contact with the race HQ by activating buttons such as indicated in paragraph 2.



## **AUTOMATIC MODE**

The IriTrack includes inclinometer, decelerometer, and memory storing GPS positions and vehicle speed.

### **1-Tracking function :**

IriTrack records every 5 minutes the GPS position and the immediate speed of the vehicle. These data are stored in its internal memory and sent automatically every half hour towards race Internet site and posted on race map. When the IriTrack transmits these data towards the server, diode "TRANSMIT" green ignites.

### **2- inclinometer function:**

Provided with an inclinometer, the IriTrack will send towards the race HQ an identified warning message "inclino" together with vehicle race number and its position in case of abnormal slope of the vehicle i.e. more than 45° during 5 minutes.

### **3-Decelerometer function :**

In case of rough deceleration corresponding to 10 G IriTrack transmits an identified warning "crash" indicating vehicle race number and GPS position to race HQ.

**Time of transmission of warning messages to race HQ : less than 2 minutes.**

### **4-Audio doubtbreaking function**

Race HQ, in case of warning reception (as previously defined) in order to break the doubt on the warning causes, can make a phone contact with the concerned vehicle by calling IriTrack. Thanks to the automatic pickup, no action of the pilot is necessary and the race HQ can converse directly with the competitors. In that case, green diode VOICE ignites indicating that the race HQ is in communication with you.

## **ADVICE FOR USE**

**When you send a warning, press the good button ONCE only..**

**You wish to contact race HQ, press blue button and wait approximately 1 to 3 minutes for contact with operator. Please do not shout into the mike since it is very sensitive, set yourself at about 1 meter from the IriTrack mike and speak slowly**

### **IN CASE OF AN ACCIDENT:**

**Always send a warning by pressing red button which will enable race HQ to get your position. Then if you wish to contact Race HQ press blue button.**