

**CATALOGUE**  
**RAID**



# TABLE OF CONTENTS

<b>DEVICES AND ACCESSORIES.....</b>	<b>3</b>
<b>1. MEASUREMENT AND DISPLAY INSTRUMENTS.....</b>	<b>3</b>
1.1. RR411 "RAID" TRIPMASTER / TIMER / CHRONO.....	3
1.2. HEADING NAVIGATION OPTION.....	4
1.3. WIRED REMOTE CONTROL.....	4
1.4. PILOT DISPLAY RP360 "RAID".....	5
1.5. PILOT DISPLAY "RAID" FOR REDUNDANT SYSTEM.....	5
<b>2. WIRING AND POWER SUPPLY.....</b>	<b>6</b>
2.1. 12V READY-TO-PLUG WIRING HARNESS WITH WATERPROOF CONNECTOR.....	6
2.2. HARNESS FOR USING A RR410/411 "RAID" AS A PILOT DISPLAY.....	6
2.3. POWER ADAPTER.....	7
2.4. 220V POWER SUPPLY.....	7
2.5. CIGARETTE LIGHTER SOCKET.....	8
2.6. OBD HARNESS.....	8
<b>3. DETECTION DEVICE.....</b>	<b>9</b>
3.1. WATERPROOF PRECISION 10 HZ GPS RECEIVER.....	9
<b>4. MOUNTING AND SUPPORT.....</b>	<b>10</b>
4.1. RAM SUCTION CUP HOLDER + 1" BALL.....	10
4.2. RAM 1" MOUNTING BALL.....	10
4.3. RAM ALUMINUM ARMS (3 LENGTHS).....	11
4.4. RAM ROLL BAR SUPPORT.....	11
<b>5. PROTECTION AND STORAGE.....</b>	<b>13</b>
5.1. PROTECTIVE COVER FOR RR411.....	13
5.2. TRANSPORT CASE.....	13
<b>RATES.....</b>	<b>14</b>

## Devices and accessories

### 1. Measurement and display instruments

#### 1.1. RR411 “raid” Tripmaster / Timer / Chrono



(Ref.11121)

[Click here for a detailed product presentation](#)

The RR411 Tripmaster / Timer / Chrono is equipped with a 4"3 TFT color touch screen. It integrates an **interface for sensors and accessories**, including:

- An input for wired remote control with digits (for easy distance setting by typing).
- A buzzer to guide the driver precisely (accelerate/slow down).

Harnesses exit from the underside of the device with **waterproof connectors** for:

- 12V power supply.
- GPS receiver for roof mounting.
- Remote control.
- A remote color display for the driver (optional).
- USB port for updates and file exchanges (such as importing the averages prepared by CRISARTECH for the *Dakar Classic*) via a simple USB key.

## 1.2. Heading navigation option

(Ref.15220)

This software option allows the co-pilot to enter GPS coordinates or distance / heading pairs. The device guides you to these points, even if you take a long detour, or even go backwards.

Once a point has been reached, the next point follows automatically, but it is possible to avoid it and resume the sequence, as if you had validated it.

## 1.3. Wired remote control



(Ref.42220)

The remote control with digits makes it quick and easy to enter average distances/speeds, or set-up distances, for example. Color-coded control pad and function keys make it easy to navigate the interface and configure the timer. The wired connection allows for increased reliability (no battery problems or missed corrections because you have not “aimed” the receiver).

**Note:** this remote control is not waterproof, so we recommend protecting it with cling film.

[Click here for a video presentation of the remote control.](#)

#### 1.4. Pilot display RP360 "raid"



(Ref.13220)

[Click here for a detailed product presentation](#)

The RP360 pilot display features the same 4"3 TFT color screen as the RR411 timer, and acts as a repeater, displaying essential pilot data in easy-to-read, high-contrast color characters.

This display is recommended for rallies involving navigation. It allows the driver to "take part" in the navigation, as he has access to the distances in a very legible way.

The screen is glossy. If the rider finds the glare bothersome (for example, when wearing a white suit), we offer an anti-glare protective film (Ref. 63100 if fitted by yourself or 63110 if fitted by us).

#### 1.5. Pilot display "raid" for redundant system



A second RR411 can be used as a "pilot display". This provides a **redundant system**. In the event of failure of the co-pilot's timer, the pilot's display can take over in a matter of seconds.

When data about the regularity zone is entered into the timer, it is automatically sent to the pilot display, which stores it in case it needs to take over. If a backup GPS receiver is connected, then at the moment of switchover, the receiver is already working (it's "hot").

This configuration requires a special harness, see §2.2.

## 2. Wiring and power supply

### 2.1. 12V ready-to-plug wiring harness with waterproof connector



(Ref.21120)

12V power supply for RR411 device ("raid" version only).

### 2.2. Harness for using a RR410/411 "raid" as a pilot display



(Ref.23220)

Harness used in configurations with redundant displays, as described above.

### 2.3. Power adapter



(Ref.24100)

It allows you to use the power supply accessories we've developed for the "classic" range, such as the 3 accessories below.

### 2.4. 220V power supply



(Ref.33100)

220V power supply for training in your armchair (the timer has a "speed simulation" mode), or for data input at the hotel before the race.

## 2.5. Cigarette lighter socket



(Ref.32100)

This cigarette-lighter socket can replace the 12V power supply needed by the device, for quick and occasional installation, or training purposes.

## 2.6. OBD harness



(Ref.21200)

OBD harness for diagnostic sockets on vehicles since 2002 approx. It provides a permanent power supply with a securely locked plug from modern vehicle.

### 3. Detection device

#### 3.1. Waterproof precision 10 Hz GPS receiver



(Ref.41200)

One of the advantages of the RR411 Tripmaster / Cadencer / Chrono is that it can take advantage of a precision 10 Hz GPS receiver to:

- Synchronize the time with a precision of 2 hundredths of a second on the official "UTC" time or on an organizer's clock, keeping remarkable precision.
- Measure distances fairly accurately (outside dense forest and tunnels).

The waterproof external GPS receiver is separate from the unit, so it can be placed on the roof for optimum reception. The receiver is fitted with a cable approx. 3 m long.

All our precision GPS receivers can **simultaneously** receive **3** of the **4** main satellites constellations, as selected by the user:

- GPS (USA)
- Beidou (China)
- GLONASS (Russia, not recommended since 2022)
- Galileo (Europe)

## 4. Mounting and support

### 4.1. RAM suction cup holder + 1" ball



(Ref.53100)

Fast, reliable installation thanks to the power of the suction pad.

### 4.2. RAM 1" mounting ball



*RAM 1" mounting ball*



*Ball attached to the rear of an RR411 or RP380*

Several possible uses:

- Screwed to the dashboard, the ball can be used without the suction cup. The device is used with a suction cup during reconnaissance or training, then with this support during the race, screwed into the racing car (Ref.53220).
- Screwed behind the RR411 or RP360 (supplied with appropriate screws) (Ref.51100).

### 4.3. RAM aluminum arms (3 lengths)

Available in 3 different lengths (ball to ball):

**Short arm (4.45 cm)**  
Advised for pilot display



(Ref.52100)

**Standard arm (7.62 cm)**  
Advised for timer



(Ref.52200)

**Long arm (13.20 cm)**



(Ref.52300)

### 4.4. RAM roll bar support



(Ref.53300)

Allows the unit to be attached to the car's rollbar, model may vary according to availability.

### Examples of possible configurations:

- Rigid suction cup mount with double ball joint and standard aluminum arm for RR411.



- Rigid suction cup holder with double ball joint and short aluminum arm for RP360/380.



## 5. Protection and storage

### 5.1. Protective cover for RR411



(Ref.61100)

Protects the screen during transport and hides it in parks.

### 5.2. Transport case



(Ref.62100)

For storage/transport:

- RR411 (without protective cover).
- RP360 (without protective cover).
- Two suction cup holders.
- Wired remote control.
- Various accessories (OBDII harness, GPS receiver, etc.).

Shockproof, waterproof, can be secured with a padlock.

Dimensions: 336 x 300 x 148 mm

Weight: 1.6 kg empty.

## Rates

Ref.	Designation	Price without tax	Price with French tax	Qty	Total
11121	RR411 "raid" waterproof and reinforced tripmaster/timer for regularity rallye-raid	1 016.67 €	1 220.00 €		
15220	Option: bearing navigation page	79.17 €	95.00 €		
42220	Wired remote control "raid" with digits	104.17 €	125.00 €		
13220	RP360 "raid" pilot display (new generation TFT colour 4.3")	450.00 €	540.00 €		
63100	Anti-glare screen protector for the RP360	6.67 €	8.00 €		
63110	Anti-glare protective film applied to the RP360	12.50 €	15.00 €		
21120	12V power harness "raid" (with waterproof connector, sheathed)	21.67 €	26.00 €		
23220	Harness to use "raid" RR410/411 as pilot display	41.67 €	50.00 €		
24100	12V power adapt. "raid" (with waterproof connector) to use "Classic" accessories	30.00 €	36.00 €		
33100	220V power to use outside of vehicle	27.50 €	33.00 €		
32100	Cigarette lighter harness	40.00 €	48.00 €		
21200	Spare OBD harness	40.00 €	48.00 €		
41200	Waterproof external 10 Hz GPS receiver "raid" with waterproof connector	162.50 €	195.00 €		
53100	RAM suction cup + 1" ball plate	26.67 €	32.00 €		
51100	RAM 1" ball plate to screw behind display (with screws)	13.33 €	16.00 €		
52100	RAM short arm 4.45 cm	20.00 €	24.00 €		
52200	RAM medium arm 7.62 cm	21.67 €	26.00 €		
52300	RAM long arm 13.2 cm	30.83 €	37.00 €		
53300	RAM 1" ball roll bar support	45.83 €	55.00 €		
53220	RAM 1" ball plate to screw on board (without screws)	10.83 €	13.00 €		
61100	Protective cover for RR4xx or RP380	37.50 €	45.00 €		
62100	Reinforced, waterproof transport case	120.83 €	145.00 €		
<b>TOTAL</b>					

Order form to be completed and sent to CRISARTECH with your full contact details  
(telephone number, email address, billing and delivery address) to:

[order@crisartech.com](mailto:order@crisartech.com)