

CATALOGUE RAID

CRISARTECH
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06/2025

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Devices and accessories

1. Measurement and display instruments

1.1. RR411 “raid” Tripmaster / Timer / Chrono



[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

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



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 RP380 “raid”



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

The RP380 pilot display features the same 4"3 TFT color screen as the RR410 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.

1.5. Pilot display “raid” for redundant system



A second RR410 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



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

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



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

2.3. Power adapter



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



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.

This power supply is not designed to power the RP380 pilot display in addition to the RR411.

2.5. Cigarette lighter socket



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



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



One of the advantages of the RR410 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)
- Galileo (Europe)

4. Mounting and support

4.1. RAM suction cup holder + 1" ball



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

Non-contractual photo: diamond, round or square base depending on availability.

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.
- Screwed behind the RR411 (supplied with appropriate screws).

4.3. RAM aluminum arms (3 lengths)

Available in 3 different lengths (ball to ball):

Short arm (4.45 cm)
Advised for pilot display



Standard arm (7.62 cm)
Advised for timer



Long arm (13.20 cm)



4.4. RAM roll bar support



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.



Example 1: suction cup + standard arm on RR411

- Rigid suction cup holder with double ball joint and short aluminum arm for RP380.



Example 2: suction cup + short arm on RP380

5. Protection and storage

5.1. Protective cover for RR411 or RP380



Protects the screen during transport and hides it in parks.

5.2. Transport case



For storage/transport:

- RR411 (without protective cover).
- RP380 (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	Customer Price without tax	Customer Price with French tax	Qty	Total
11121	RR411 "raid" waterproof and reinforced tripmaster / timer for regularity rallye-raid	962.50 €	1 155.00 €		
15220	Option: bearing navigation page	79.17 €	95.00 €		
42220	Wired remote control "raid" with digits	79.17 €	95.00 €		
13120	RP380 "raid" pilot display (TFT colour 4.3")	450.00 €	540.00 €		
21120	12V power harness "raid" (with waterproof connector, sheathed)	20.00 €	24.00 €		
23220	Harness to use "raid" RR410/411 as pilot display	33.33 €	40.00 €		
24100	12V power adapt. "raid" (with waterproof connector) to use "Classic" accessories	29.17 €	35.00 €		
33100	220V power to use outside of vehicle	21.67 €	26.00 €		
32100	Cigarette lighter harness	28.33 €	34.00 €		
21200	OBD harness	36.67 €	44.00 €		
41200	Waterproof external 10 Hz GPS receiver "raid" with waterproof connector	162.50 €	195.00 €		
53100	RAM suction cup + 1" ball plate	25.00 €	30.00 €		
53210	RAM 1" ball plate to screw behind display (with screws)	11.67 €	14.00 €		
52100	RAM short arm 4.45 cm	20.00 €	24.00 €		
52200	RAM medium arm 7.62 cm	20.83 €	25.00 €		
52300	RAM long arm 13.2 cm	29.17 €	35.00 €		
53300	RAM 1" ball roll bar support	37.50 €	45.00 €		
53220	RAM 1" ball plate to screw on board (without screws)	10.00 €	12.00 €		
61100	Protective cover for RR410/412 or RP380	37.50 €	45.00 €		
62100	Reinforced, waterproof transport case	128.33 €	154.00 €		
	TOTAL				

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