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# ECRAN DE REcul 2 ENTrees



## **Manuel d'utilisation**



MANUEL D'UTILISATION



INSTRUCTION MANUAL



BEDIENUNGSANLEITUNG



MANUAL DEL USUARIO



MANUALE DI ISTRUZIONI



## 2 INPUT REVERSE SCREEN

### **Safety instructions and installation instructions**

**Respect the safety instructions and other instructions given by the vehicle manufacturer and by experienced car technicians.**

#### **Important!**

Narbonne Accessoires declines all responsibility in the event of damage caused by:

- ♦ an assembly error,
- ♦ voltage variations that damage the equipment,
- ♦ modifications to the appliance without the explicit agreement of Narbonne Accessoires,
- ♦ use for other purposes than those indicated in this manual.

#### **Warning**

Always disconnect the negative terminal before carrying out any intervention on the electric elements of the vehicle in order to avoid the risk of short circuits.

The negative terminal on all batteries that may be installed inside the vehicle must also be disconnected. If the electric connections are not carried out according to state of the art practise, a short circuit can be caused that can lead to:

- ♦ deterioration of the equipment,
- ♦ burnt out wiring,
- ♦ the triggering of the airbag,
- ♦ the deterioration of electronic command elements,
- ♦ power cuts to the electric functions.

#### **Due to this it is imperative to follow these instructions:**

- ♦ **do not use** screw terminals to make electric connections,
- ♦ use a specially designed crimping tool to crimp the lugs to the wires,
- ♦ never cut wires that are already present on the vehicle,
- ♦ make the electric connections using the supplied lugs,
- ♦ for connections to the negative pole of the battery, connect the wire:
  - to one of the vehicle's earthing screws, using a lug and a notched washer,
  - or to the vehicle bodywork, using a lug and a sheet metal screw,
  - or directly to the negative pole of the battery.

#### **Important:**

- ♦ Never expose the screen to rain.
- ♦ Disconnect the screen if no camera is connected to the system.
- ♦ Never disconnect the 12 V power supply from the appliance when it is operating

## **TECHNICAL SPECIFICATIONS**

SCREEN	Liquid crystal type screen	7" TFT LCD
	Resolution	800x480
	Video format	NTSC/PAL
	Consumption (A)	On standby: 0.07 / Rated: 0.2A / Max. : 0.4
	Size in mm (l x d x h)	170 x 115 x 48
	Weight (approx.)	320 g (without support)
	Voltage	DC 12 - 24V

INVOTECH reserves the right to modify these technical specifications at any time without notice.

**Compatible with the cameras 402879, 402878, 402877,402898,402899,402900,402878B 402901,402902.**

### **I KIT CONTENT**

- ♦ 1 TFT liquid crystal screen
- ♦ 1 screen support
- ♦ 1 AV cable
- ♦ 1 screen remote control (battery supplied)
- ♦ 1 electric connection braid
- ♦ User manual

### **II DESCRIPTION OF THE COMMAND PANEL**



1	IR sensor	4	Negative adjustment -
2	On/Off switch	5	Menu
3	Video 1 / Video 2 switch	6	Positive adjustment +

### **III INSTALLING THE SCREEN**

#### **Warning!**

Place the screen at a location in which there is no risk of injuring the vehicle passengers (e.g. in the event of sudden braking or an accident).

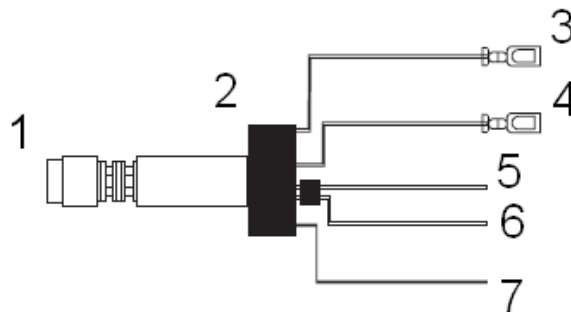
#### **Respect these instructions when installing:**

- ♦ Choose an appropriate location making it possible to see the screen easily,
- ♦ Never install the screen on an airbag or in the zone for which the airbag was approved. This could cause injury to passengers if the airbag was triggered.
- ♦ The screen must never obstruct the driver's vision.
- ♦ The place the screen is installed must be flat.
- ♦ Check that there is sufficient space to tighten the screen using the knobs. .
- ♦ Before drilling, make sure there is enough space on the reverse of the location for the drill bit to cross.
- ♦ Take the screen weight into consideration. Try to plan for reinforcements if required (large metal sheeting or washers).
- ♦ Make sure that the set of screen connection cables can be fitted correctly.

#### **Carry out the installation as follows:**

1. Place the screen on the support guide, then block it using the knob.
2. Determine the best position for the screen inside the vehicle.
3. Make sure that the screen connection cable is accessible.
4. Remove the screen from its support.
5. Mark the drilling locations on the support using a pencil or a sharp object.
6. Drill a 2 mm diameter hole at each marked location.
7. Remove the protective film from the adhesive. Place the support in its location.
8. Screw the screen support using 4 x 20 mm metal sheet screws (approx, not supplied).
9. Place the screen on the support guide, then block it using the knob.
10. To adjust the angle, unscrew the second knob, then move the screen to the required angle. Then re-tighten the knob.

### **IV CONNECTING THE SCREEN POWER SUPPLY**



1	Screen - 8 pin DIN connector	5	+ 12V/24V – Red wire
2	Interconnection box	6	GND (battery negative) - Black wire
3	C1 - Camera 1 (manual mode) DIN 4 pin	7	Reversing wire - Green wire
4	C2 - Camera 2 (automatic reverse) 4 pin DIN		

1. Disconnect the negative pole of the vehicle battery.
2. Connect the 8 pin DIN connector on the electric connection braid (1.70 m long) to the screen connector.
3. Connect the red wire (+12V/24V) to a positive terminal inside the vehicle fuse box. Consult the vehicle user manual to view the fuse box diagram.
4. The GND wire must be connected to any negative point ensuring a clear connection to the negative pole of the battery. Use a fuse box connection or a screw on the metal chassis. Remove all traces of paint from the metal, it must be bare for a good contact. Crimp an eye hole lug.
5. Connect the green wire to any point that becomes positive when in reverse (reverse lamp, fuse or contactor for the reverse lamp). Consult the vehicle user manual to view the electric diagram, or use a multimeter to identify the positive wire that supplies the reverse lamp.
6. Reconnect the negative pole of the battery.
7. The screen will trigger automatically when in reverse. It can be triggered manually using the On/Off switch.

## **V SYSTEM TESTS**

### **1. Use in automatic mode (reverse) using the camera 2 input:**

Place the ignition in the vehicle without starting the motor and pass reverse gear. The camera linked to input C2 will start automatically.

Finish the adjustments by inclining the camera so that the edge of the bumper and approximately 1 metre to the rear are visible.

### **2. Use in manual mode (retrovision) using the camera 1 input**

Place the ignition in the vehicle without starting the motor. The screen should not turn on. Push the On/Off button: the camera connected to input C1 will start.

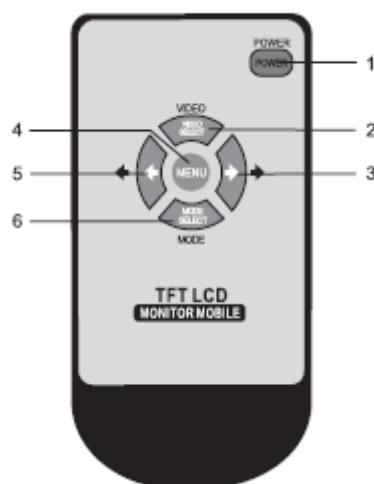
carry out the adjustments by inclining the camera so that a correct retrovision is available of vehicles and obstacles between the rear of the vehicle and the horizon.

### **3. To use the screen with an external video source (DVD player), use the AV cable included in the delivery and connect it to input C1**

The volume can be adjusted using the - and + adjustment keys.

The different image settings (contrast, colour, brilliance) can be accessed using the functions of the MENU key. Settings are made using the - and + adjustment keys.

## **VI REMOTE CONTROL FUNCTIONS**



1	POWER button - On/Off	4	MENU key
2	Video 1 / Video 2 switch	5	Negative adjustment -
3	Positive adjustment +	6	Mode selection

**VII PROTECTION OF THE ENVIRONMENT**

Electronic / electric appliances must not be disposed of as normal household waste.

They should be returned to the shop in which they were bought or taken to the waste centre for recycling.



**AFTER-SALES SERVICE:**

Carefully keep your purchase invoice. It will be required for any warranty claim.

In case of problems, contact your dealer. No product return will be accepted without prior approval.

**WARRANTY CONDITIONS:**

The commercial warranty conditions for this product are stipulated in the general sales conditions (GSC) on the back of the purchase invoice. We advise you to read the GSC and the following.

The transport costs remain at the user's expense.

All anomalies must be reported to us by registered letter with acknowledgment of receipt within 10 days of occurrence.

Please note that our guarantee covers reasonable use of the product, it does NOT cover any damage caused by misuse.

To ensure the validity of the guarantee please carry out maintenance in accordance with the maintenance section.

The following are excluded from the warranty:

- o A malfunction or failure of the system that has been caused by poor or incorrect installation
- o Any wear or faults caused by improper assembly or use not in accordance with recommended guidelines.
- o Any damage caused by exceptional weather conditions (storms, hail, snow, storms, floods, etc.).
- o Any act of vandalism, collision, falling objects or anything else.
- o Any damage caused by the user's fault

We reserve the right to make a call out and/or repair charge for any work required to be undertaken to rectify faults that are outside of the company's control i.e. caravan battery failure, incorrect or poor fitting, misuse, accidental damage, etc.