

# KABE RV8007



- 7" 1024x600
- Multi touch PCAP
- Ambient light sensor for backlight control
- Wide supply voltage 6-18V
- CE & ECE Reg. 10 (E-mark)
- Linux Yocto

## DISPLAY

7", 1024x600, PCAP touch  
Backlight controlled by light sensor

## CPU

NXP i.MX8M Plus Quad Lite  
RTC backup battery

## MEMORY & STORAGE 2GB

RAM, 16GB eMMC

## INTERFACES

1 x 10/100 Mbit Fast Ethernet  
2x CAN2.0B, CAN-FD  
1x LIN Texas Instrument TLIN1029A-Q1  
1x Bluetooth 5.0 with integrated antenna  
5x RCA for 5-channel audio

## CONNECTORS

1x IL-AG5-22P-D3L2 for power, CAN, LIN  
5x RCA Audio  
1x Ethernet RJ45  
1x USB 2.0

## INDICATORS

1x LED in front  
1x Buzzer for alarms

## HOUSING

Plastic chassis, IP65 front

## POWER SUPPLY

12VDC input

## MOUNTING

In wall mounting

## ENVIRONMENT

Operating: -30 °C to +50°C  
Humidity: 95% non-condensing  
Damp Heat: EN60068-2-30, IEC60068-2-3  
Vibration: ISO60068-2(ISO 16750-3 level S),  
random, 10~1000Hz, 27.1m/s<sup>2</sup>(equals to 2.76G) 1hr/axis ( Panel /  
VESA Mounting) Test Axis : X 、 Y 、 Z axis.  
Test Time : 1hr ( Each axis ).  
Total Test Time : 3 hours.  
Shock: 3.26G(According to panel spec), 6 directions

**KABE RV8007 system will be installed on the car according to different models, the following is the reference position:**





# CONTROL PANEL

Electrical system  
(Standby)  
ON-OFF



## Control panel illumination

The control panel goes out after a few seconds with no contact. A quick touch restores illumination.

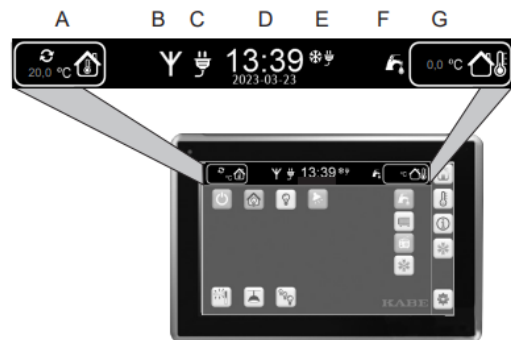
## Status bar

The status bar at the top of the control panel shows current values (current status) and any alarms.

Information in the status bar is displayed in the same way whichever menu is selected.

The following information is shown in the status bar:

- A Temperature inside the motorhome.
- B Icon for TV antenna up.
- C Icon for 230 V connected.
- D Time and date.
- E Icon for Winter connection set.
- F Icon for Water pump selected.
- G Outside temperature.

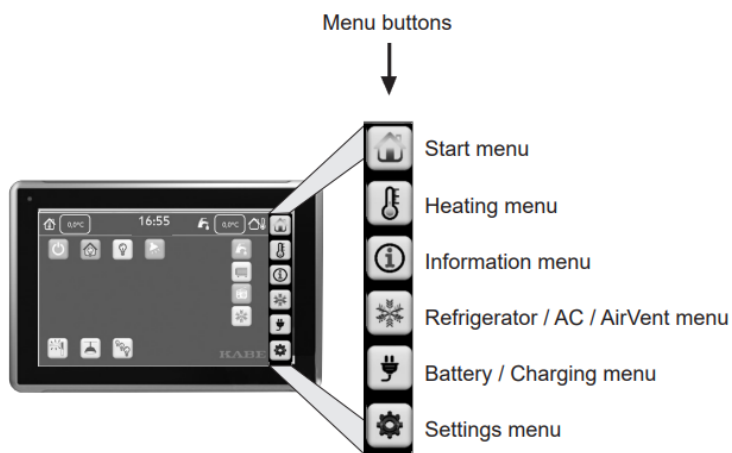


## Menu selection

Use the menu buttons to select which menu the control panel is to display.

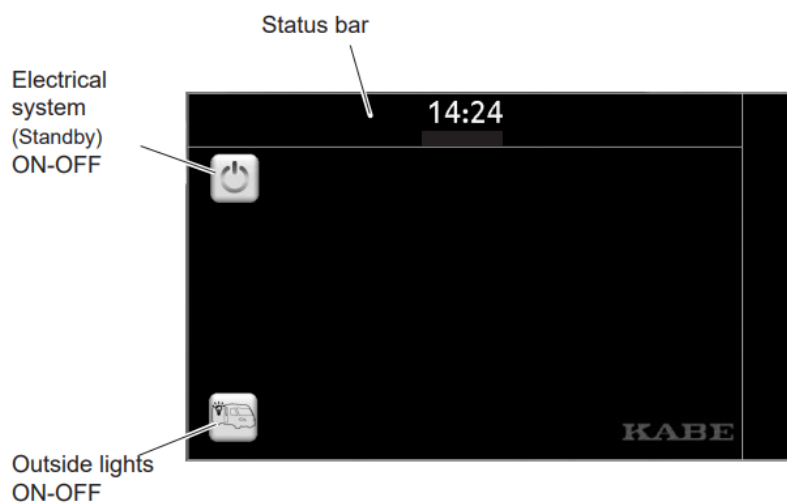
Each menu makes a number of functions available via buttons that can be pushed.

Each menu is described below.



## Electrical system off (Standby)

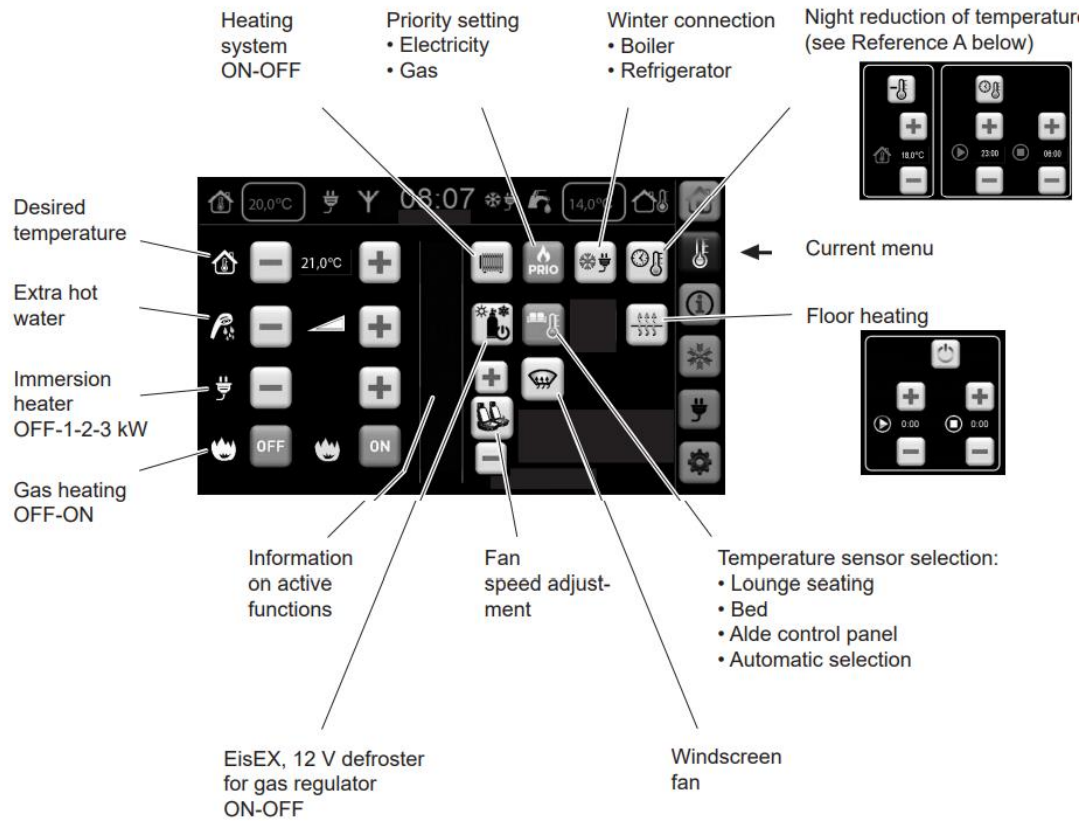
Even when the electrical system is off, some functions are available via the control panel.



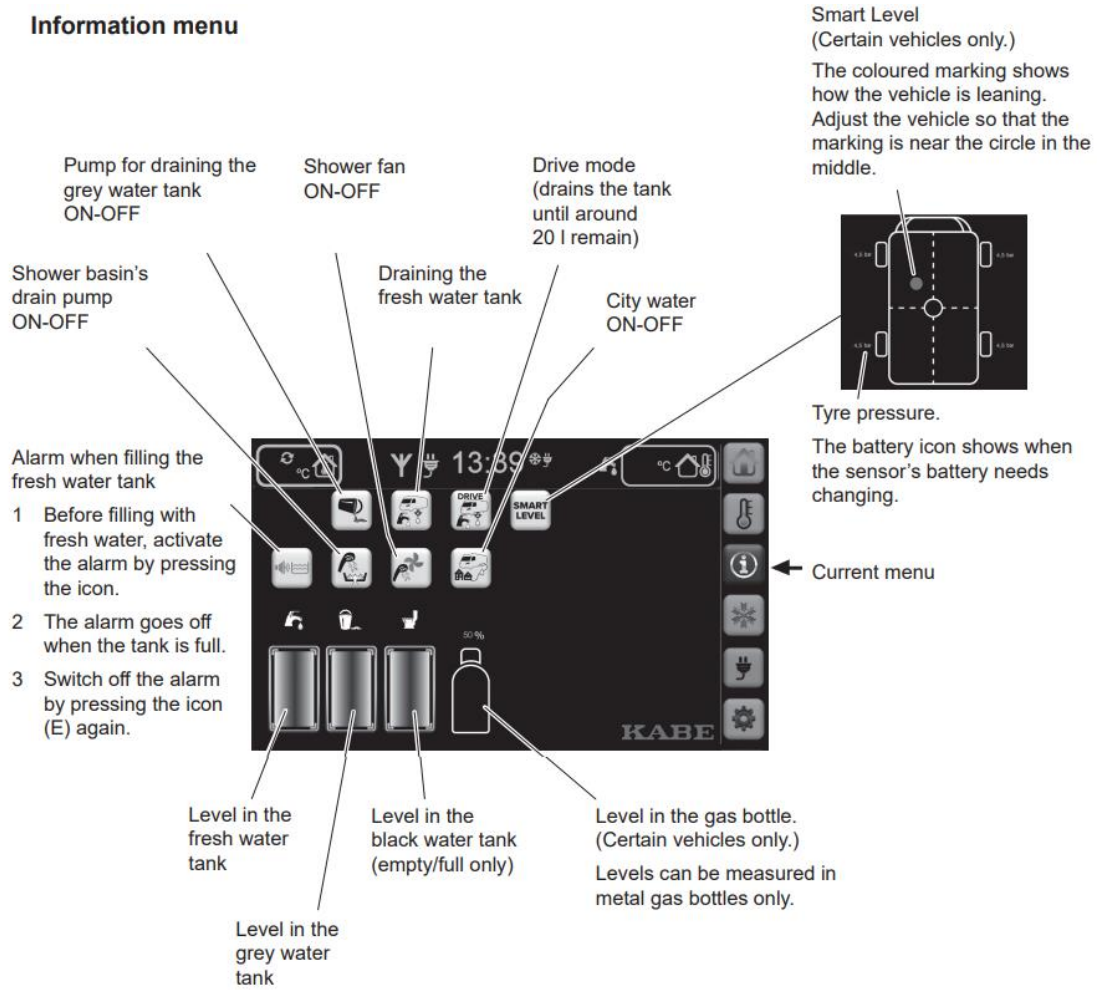


## Heating menu

The boiler's control panel is in the wardrobe, but the most used functions are also available in this menu on the motorhome's control panel.



## Information menu

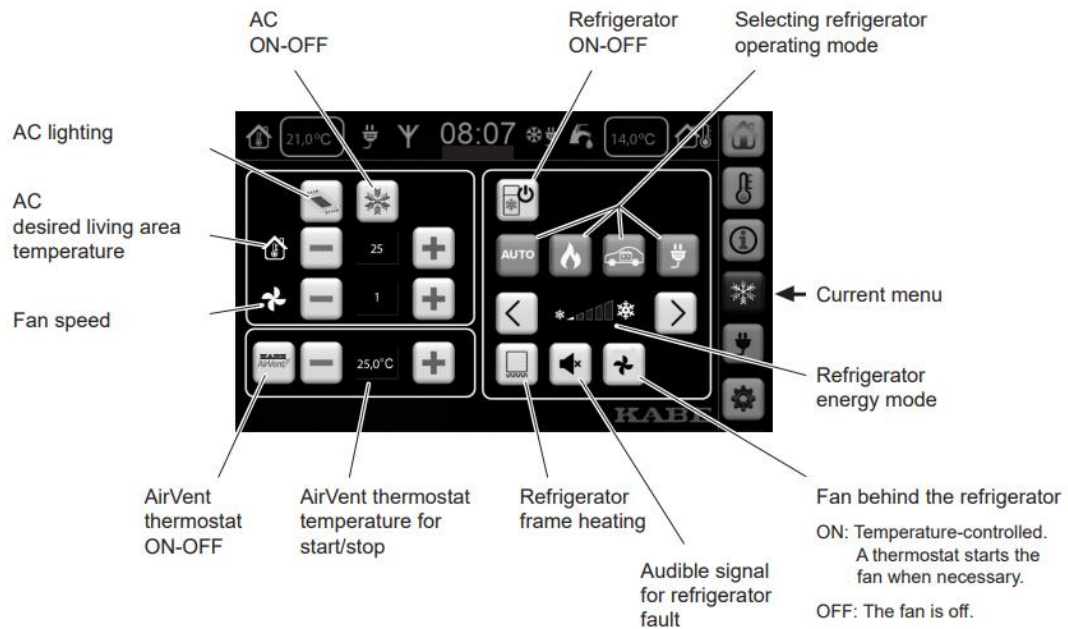


## Refrigerator / AC / AirVent menu

The refrigerator's functions can be adjusted from the control panel. See also the manufacturer's user instructions.

The AC menu is only available in motorhomes that have factory-fitted AC.

The AirVent menu is for the thermostat. The AirVent fan is started and adjusted via the fan's panel next to the roof hatch.





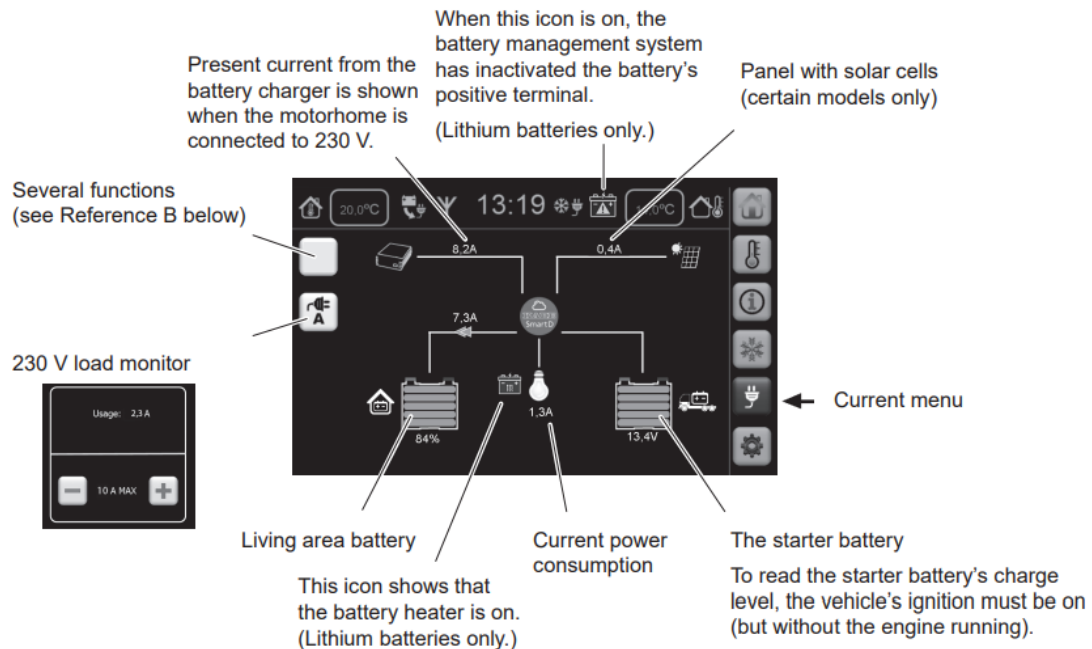
## Batteries and battery charging menu

This menu shows battery charge levels.

The electrical system's power consumers are illustrated by a light in the menu.

Certain models have sensors that measure the current in the electrical system's various parts. Current consumption and charge are presented in the menu.

Motorhomes with a factory-fitted solar panel show present current from the solar panel.



### Reference B:

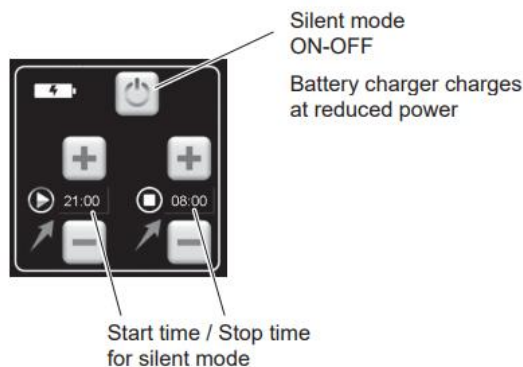
The button's function is affected by whether the motorhome is connected to a 230 V mains.



Inverter, 12 V DC – 230 V AC,  
ON-OFF.  
Shows only when the motorhome is not connected to 230 V.



Silent mode with timer setting for the battery  
charger (reduced power).  
Shows only when 230 V is connected.



## Settings menu

Control panel back-  
ground illumination

Adjust date and time

Time zone

Fault message



## Vital information on the living area's battery

The battery's service life is affected by how it is used.

- Avoid heavily discharging the battery. Charge the battery before it is flat.
- Fully charge the battery (at least 24 hours). The battery charges ever more slowly as the charge grows.
- Charge the battery as soon as possible. The battery should never drop to half its charge. Fully charge the battery after use.

Check battery charge by reading battery voltage on the control panel.

For battery voltage level to equate to battery charge, the following must be taken into account:

- **Battery load.**  
The battery's voltage level drops with load.  
Before reading battery voltage, switch off as many lights as possible and ensure that the refrigerator is not being powered by the 12 V system.
- **Battery charging.**  
Ensure that the batteries are not being charged while reading voltage (i.e. engine turned off and 230 V not connected).

The following are guideline values at 20°C:

> 12.5 V	Battery fully charged.
12.2 V – 12.5 V	Battery 50% charged.
< 12.2 V	The battery needs charging.

If the motorhome is not to be used for some time (e.g. throughout the winter), the battery must be stored in a dry and cool (i.e. frost-free) place.

A disconnected battery must be trickle charged every other month.

A connected battery must be charged every other week if the motorhome is not being used. Remember that a flat battery is more easily damaged by freezing than is a fully charged battery (see the table).

In cold weather, the battery is not able to supply as much current. However, its capacity is not lost; it returns with warmer weather (see illustration).

Batteries age; they charge less easily when old. They can work well, but do not have the same capacity as new batteries.

Keep the battery clean!

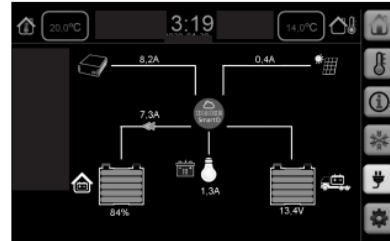
Ensure that there is good contact at the battery's connections. To remove any oxide, clean the terminals with a steel terminal brush. Protect the battery's terminals from oxide by coating them with terminal grease.



### WARNING!

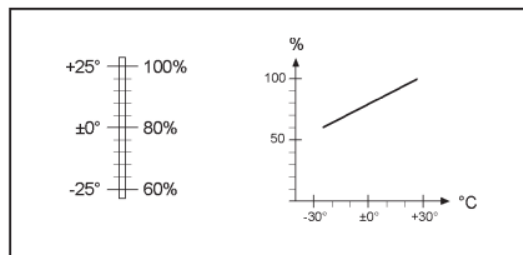
**Battery fluid is corrosive.**

**Sluice all spills liberally with running water. If there is skin or eye contact, sluice liberally with water and contact a doctor.**



Density gr/cm³	Freezing point °C
1.28 (full charge)	-67
1.24	-45
1.20	-27
1.16	-16
1.12	-10
1.10 (flat)	-7

*The freezing point of the battery acid at different charge levels.*



*Battery capacity at different temperatures.*

## Automatic switch off at low battery level

The Smart D electrical system has in-built monitoring of battery charge.

When battery charge drops below a certain level, a message is shown on the control panel: "Low voltage AUX battery".

Charge the battery (connect 230 V or start the engine).

To close the message, select a menu.

If battery charge drops even further, the electrical system automatically switches off large parts of the electrical system's consumers. Electrical functions (e.g. lights and pumps) stop working. Because power to the electronics switches off, the refrigerator and boiler also switch off.

The purpose of switching off the electrical system is to avoid damaging the battery through discharging it too heavily.



The electrical system resets automatically when the battery is fully charged. Fully charging the battery takes a number of hours.

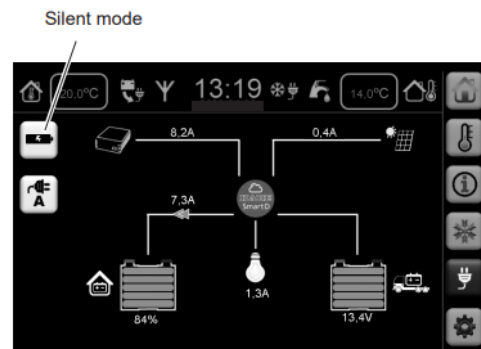
If you want to reset the electrical system earlier (at once), switch off the electrical system and turn the switch to the off position. If battery charging has started, this too must be interrupted so that the electrical system is not totally de-energised.

Next, start the electrical system while the battery is being charged.

The battery charger supplies enough power to reset the electrical system. All functions are available.



It is appropriate to use the battery charger at full power by switching off silent mode via the control panel.



## LIGHTS

### Bulb changing

When changing a light bulb, the new bulb must be of the same type and strength as the original.

KABE predominantly uses LED bulbs. This reduces the power consumption of lights (i.e. the battery lasts longer compared to when using other bulbs). LED bulbs have a far longer life than traditional incandescent bulbs.

Some LED bulbs have the same base as traditional halogen bulbs. However, LED lights should still be chosen to limit power consumption and to avoid unwanted heat in the bulb.

LED bulbs of the same type can shine with different hues. Incandescent bulbs and LED bulbs are regarded as perishable.



#### WARNING!

Risk of burns!

Lit halogen bulbs get hot. Fitting a halogen bulb instead of a low-energy bulb can cause overheating.

### Switching lighting on and off

Lighting is operated via the control panel. Certain lights are both control panel and switch operated.

Examples of features for easy adjustment of the lighting.

- Mood lighting.
- All vehicle lighting off.
- Front vehicle lighting off.

For further details, see CONTROL PANEL in the Descriptions section.

### Outside light with motion sensors

Switch on the outside light via the control panel (A). The outside light is permanently on.

If the motorhome has motion sensors, icons (B) and (C) are shown on the control panel.

Activate the motion sensor by pressing the control panel (B). The outside light goes out after a few minutes. It comes back on if, in the dark, the motion sensor detects motion.



If button (C) is activated, some lights inside the vehicle follow the outside lights and are activated by the motion sensor.

The purpose is to make people inside the vehicle aware that the motion detector has detected motion outside the vehicle.

Switch the button (C) off if you would like the motion sensor to activate the outside lighting without disturbing inside the vehicle.





**★Part 15B device warning (Section 15.105)**

**FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.

**★Part 15 Certification device (Section 15.21)**

**CAUTION:**

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

**RF Exposure warning**

This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.