

# **Car AVN User Manual**

**Model Name : I17S**

# 1. Overview and Specifications

## (1) Overview

- 1) The Infotainment system provides Infotainment in your car, using the latest technology. See your dealer to have the system or software updated and upgraded.
- 2) The Infotainment system can play the USB storage device or iPod/iPhone products.
- 3) The Bluetooth phone connection function allows for the use of wireless hands-free Phone calls, as well as a phone music player.  
In addition, the WiFi function is provided.

## (2) Specifications

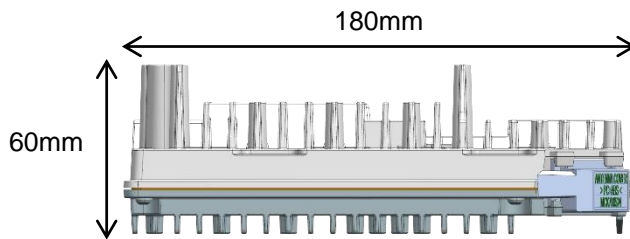
### \*Product

Item	Categories	Specifications
Specification	Product Name	GM AVN CADILLAC
	Model	I17S
	Dimensions	Refer to image
	Weight	1.16kg
	Power source	DC 12V
	Operational temperature range	-40 °C ~ 85 °C

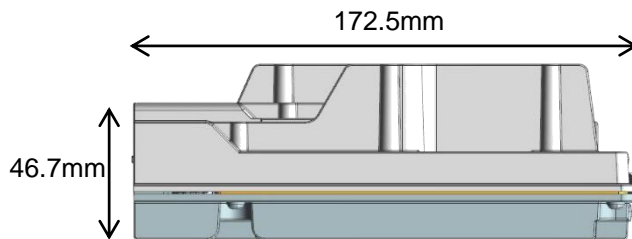
## < Basic Design Concept >

### \* Silver Box

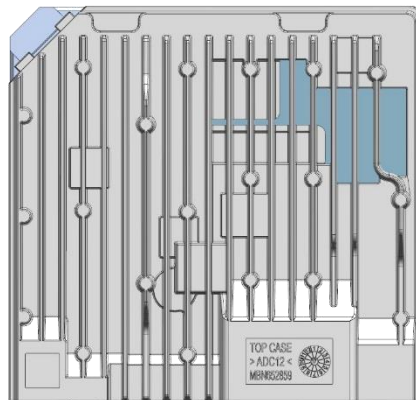
1) Silver box : 180mm x 172.5mm x 60mm ( Weight : 1.16kg)



<Front View>



<Right View>



<Top View>

\*RF specifications

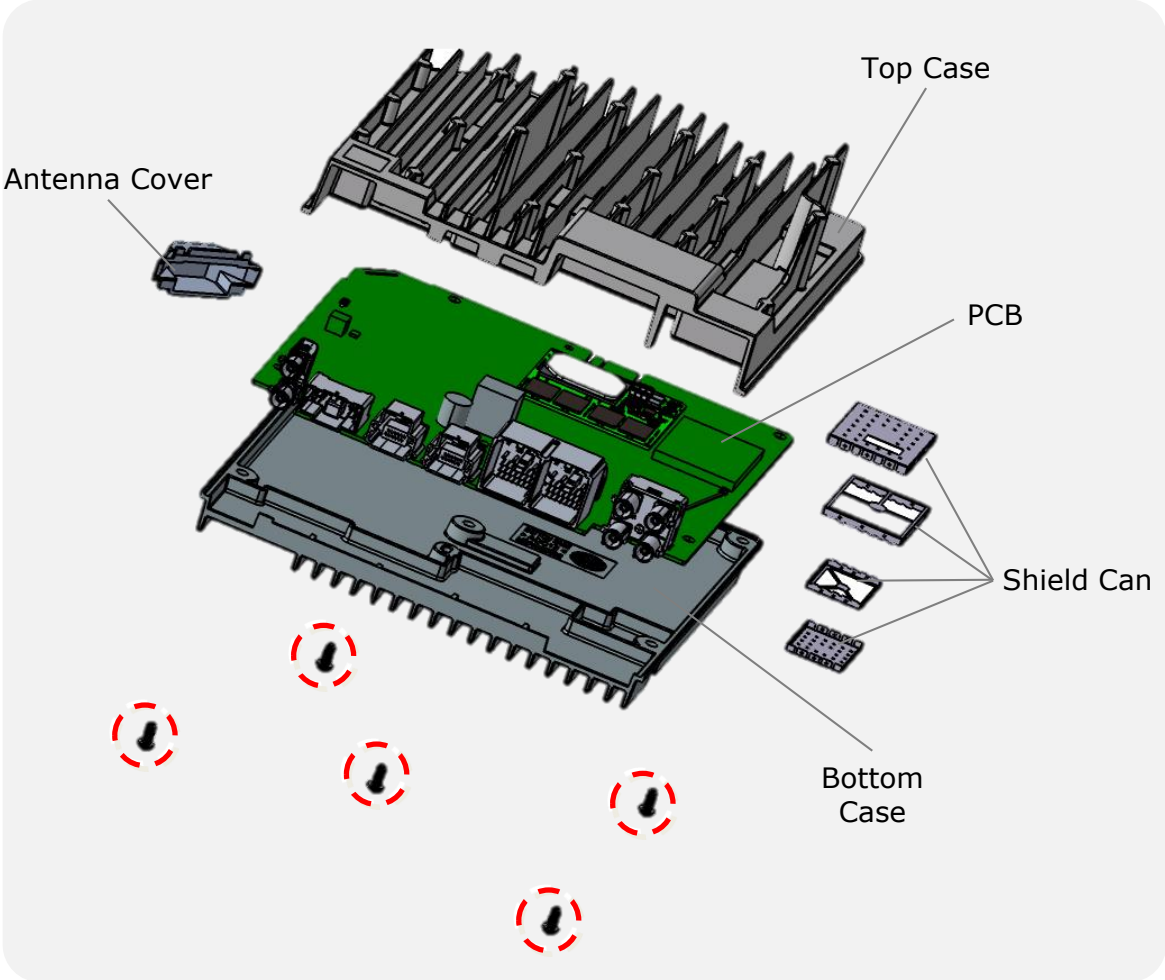
[ BT ]


Item	Specifications	Unit
Frequency	2402-2480	MHz
Modulation Type	GFSK, $\pi/4$ DQPSK, 8 DPSK	
BT Power	4 (BT Class2)	dBm
Data rate	1 ~ 3	Mbps
Channel spacing	1	MHz
BT version	BT4.2 + EDR (BT LE was disabled by software)	MHz

[ Wi-Fi ]

Item				Specifications	Unit
Standard				IEEE 802.11 a/b/g/n/ac	
Frequency	2.4G			2412-2462	MHz
	5G			5180 ~ 5825	MHz
Bandwidth				20 / 40 / 80	MHz
Data rate	2.4G	802.11 b	20M	1, 2, 5.5, 11	Mbps
		802.11 g	20M	6, 9, 12, 18, 24, 36, 48, 54	Mbps
		802.11 n	20M	6.5, 13, 19.5, 26, 39, 52, 58.5, 65	Mbps
	5G	802.11 a	20M	6,9,12,18,24,36,48,54	Mbps
		802.11 n	20M	6.5, 13, 19.5, 26, 39, 52, 58.5, 65	Mbps
		802.11 n	40M	13.5, 27, 40.5, 54, 81, 108, 121.5, 135	Mbps
		802.11 ac	20M	6.5, 13, 19.5, 26, 39, 52, 58.5, 65, 78	Mbps
		802.11 ac	40M	13.5, 27, 40.5, 54, 81, 108, 121.5, 135 162, 180	Mbps
		802.11 ac	80M	29.3, 58.5, 87.8, 117, 175.5, 234 263.3, 292.5, 351, 390	Mbps
Modulation				DSSS, BPSK, 16-QAM, 64-QAM, 256-QAM	
Mode				AP, Station, AP and station coexistence	

## 2. Component

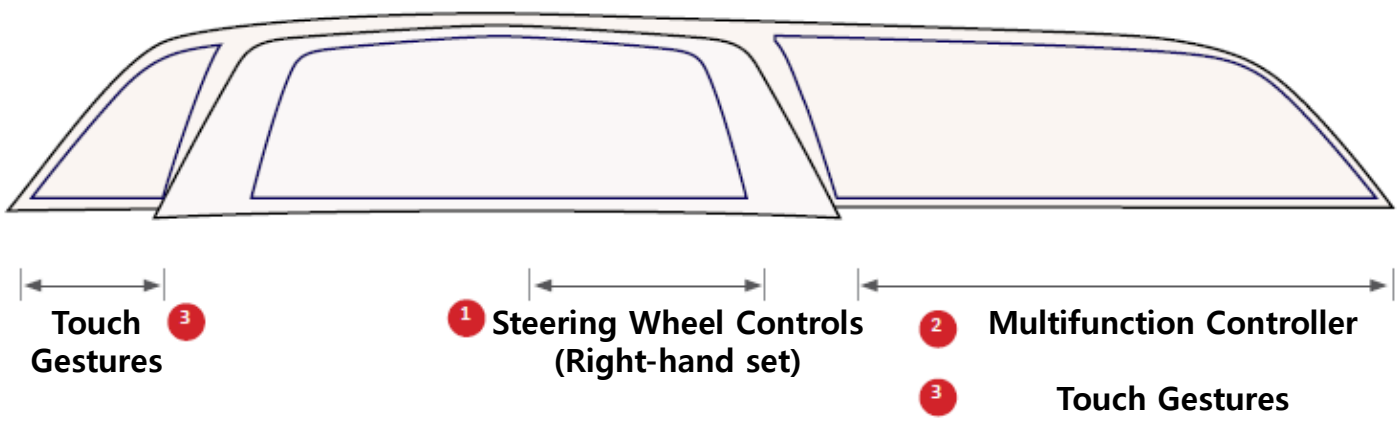


 M3.5 x 8.0mm, Machine Screw, 5ea

### Material

No.	Part	Material
1	Top case	ADC12
2	Bottom Case	ADC12
3	Antenna Cover	PC+ABS
4	Shield Can Top inner	NSP C7701 t=0.2
5	Shield Can Top outer	NSP C7701 t=0.2
6	Shield Can Bottom inner	NSP C7701 t=0.2
7	Shield Can Bottom outer	NSP C7701 t=0.2
8	PCB	PCB ( Epoxy , T=1.6 )
9	etc.	Screws, Clip, Sheets

### 3. Operation



#### Major controls of Info3.5C

##### 1. SWC Control Area

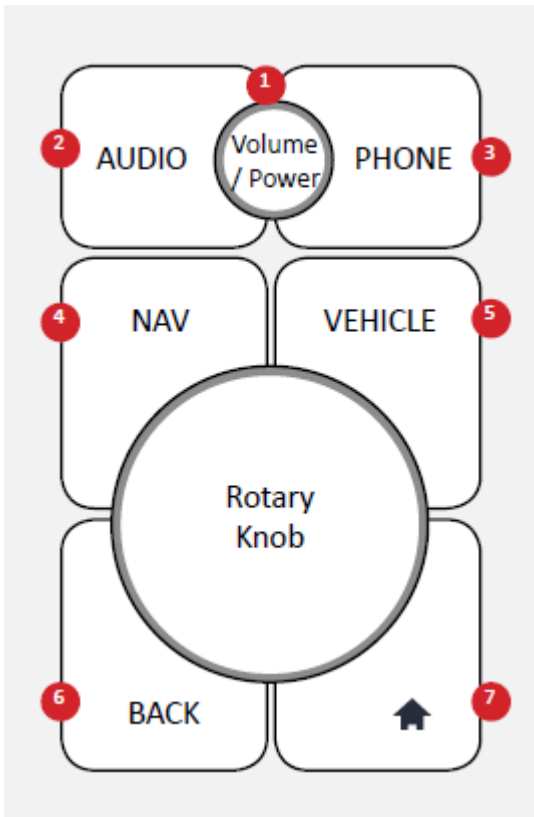
- Right side of IPC display
- Head Up Display

##### 2. MFC Control Area

- Entire ICS display

##### 3. Touch Control Area

- Left side of IPC display
- Entire ICS display



1. Volume / Power Knob

2. Audio Switch

3. Phone Switch

4. Navigation Switch









5. Vehicle Information Switch

6. Back Switch








7. Home Switch

8. Rotary Knob

# MFC

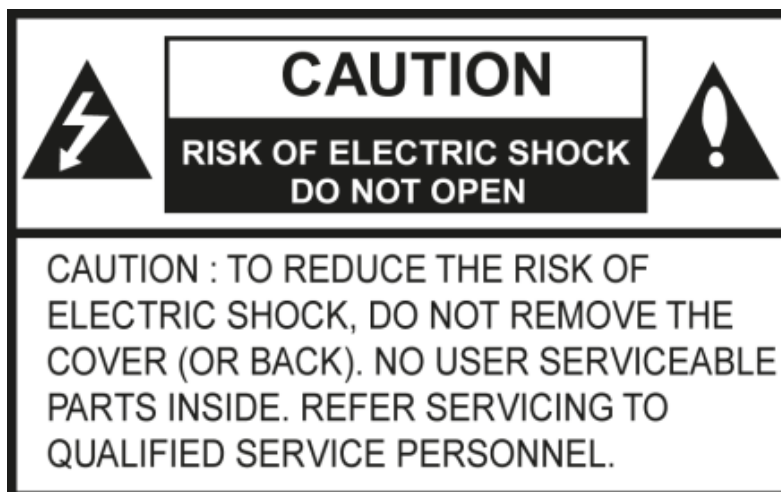
Symbol	Gesture	Description
	Press	Press dial shortly then release
	Long press	Press dial and hold for some period of time.
	Tilt right	Push dial to right
	Tilt left	Push dial to left
	Tilt up	Push dial up
	Tilt down	Push dial down
	Rotate clockwise	Dialing clockwise
	Rotate counterclockwise	Dialing counterclockwise

# TOUCH GESTURE

Symbol	Gesture	Description
	Tap (Press)	You touch a part of the screen with your finger and then take the finger off from the screen
	Double tap	A Double Touch gesture consists two Touches in quick succession.
	Long tap / Long press (Press & Hold)	A Long Press is performed by touching the screen and holding that touch location for some period of time.
	Panning	You touch 2 parts of the screen while you move and then take the fingers off from the screen (Factors: start point, end point)
	Flick (Flicking)	You move from one point to the other point quickly and then take the finger off from the screen (Factor: direction)
	Drag & Drop	You touch a part of the screen for 1 second or more while you move and then take the finger off from the screen
	Pinch	You bring your two fingers Cancel or slide them apart on the screen (Factors: start point, end point)



#### 4. Precautions



1) Always operate the vehicle in a safe manner. Do not become distracted by the vehicle while driving and always be fully aware of all driving conditions. Do not change settings or any functions. Pull over in a safe and legal manner before attempting such operations. To promote safety, certain functions are disabled unless the parking brake is on.

2) To reduce the risk of electric shock, do not remove the cover or back of this product. There are no user-serviceable parts inside. Refer servicing to qualified service personnel.

3) To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain, or moisture.

4) When driving your vehicle, be sure to keep the volume of the unit low enough to allow you to hear sounds coming from the outside.

5) Do not drop it and avoid heavy impacts at anytime.

6) The driver should not watch the monitor while driving. If the driver watches the monitor while driving, it may lead to carelessness and cause an accident.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### **Responsible Party**

LG Electronics USA  
1000 Sylvan Avenue Englewood Cliffs  
New Jersey United States 07632 (Phone: 201-472-2623)

### **RF Exposure**

The antenna (or antennas) must be installed so as to maintain at all times a distance minimum of at least 20 cm between the radiation source (antenna) and any individual. This device may not be installed or used in conjunction with any other antenna or transmitter.

### **l'exposition aux RF**

L'antenne (ou les antennes) doit être installée de façon à maintenir à tout instant une distance minimum de au moins 20 cm entre la source de radiation (l'antenne) et toute personne physique.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.