

Intrepid Control Systems, Inc.

Plasma/ION Cellular network setting checkpoints

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1. Introduction:

NeoVI PLASMA and neoVI ION are part of Intrepid's advanced wireless in-vehicle data acquisition system. neoVI PLASMA/neoVI ION connects to the vehicle bus or analog sensors and collects data in real-time. It transmits data to the server wirelessly via 3G, WIFI, or GPRS.

For in vehicle testing, Need to use cellular 3G data to connect device with sever. You can use any operator SIM with 3G data enabled. Normally device is taking all setting automatically. The neoVI Plasma/ ION Cellular network setting is same as android based mobile setting.

This document is useful to check cellular SIM card setting if device is not able to enable 3G data automatically.

2. Cellular network setting checkpoints.

2.1 Hardware Setup:

neoVI Plasma / neoVI ION, SIM Card for required network.

2.2 To verify SIM card working status:

Insert SIM card in any android based mobile and check signal strength and 3G data.

2.3 Plasma/ION Accessories setting:

- Insert SIM in correct manner in SIM slot of neoVI Plasma/ION. To insert the SIM card (while looking at the front of Plasma), insert SIM card squared side first with its notch facing outboard. Card contacts will be face down towards the pinout label. Refer Figure 1.



Figure 1: SIM insertion slot in neoVI ION

- Check GPS-GSM antenna is connected properly. Verify GSM /Cellular antenna terminal connected to the GSM connector and GPS terminal connected to the GPS connector (Check symbol printed on Plasma/ION and refer Figure 2. for ION)



Figure 2: GPS-GSM antenna connectors

2.4 To access screen for ION:

- Plasma has touch-sensitive screen. So you can directly control device setting from this screen.
- ION doesn't have such screen so there are two options to access screen for ION as follows.

1. Using HDMI cable:

- Connect ION to monitor or projector using HDMI connector on ION.
- It will display screen on monitor as shown in Figure 3

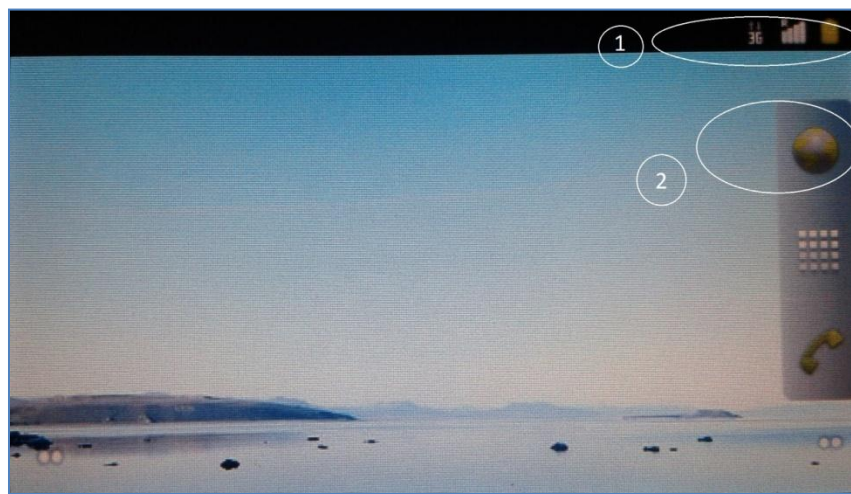


Figure 3: Plasma/ION home screen

- Connect mouse and keyboard to ION's USB port using USB connector to access control.

2. Using USB cable:

- Connect ION to PC using USB cable.
- Open Vehicle Spy3.Go in tool → ON/plasma setup.
- It will create VNC connection and display the ION/plasma screen on monitor(Figure 4)

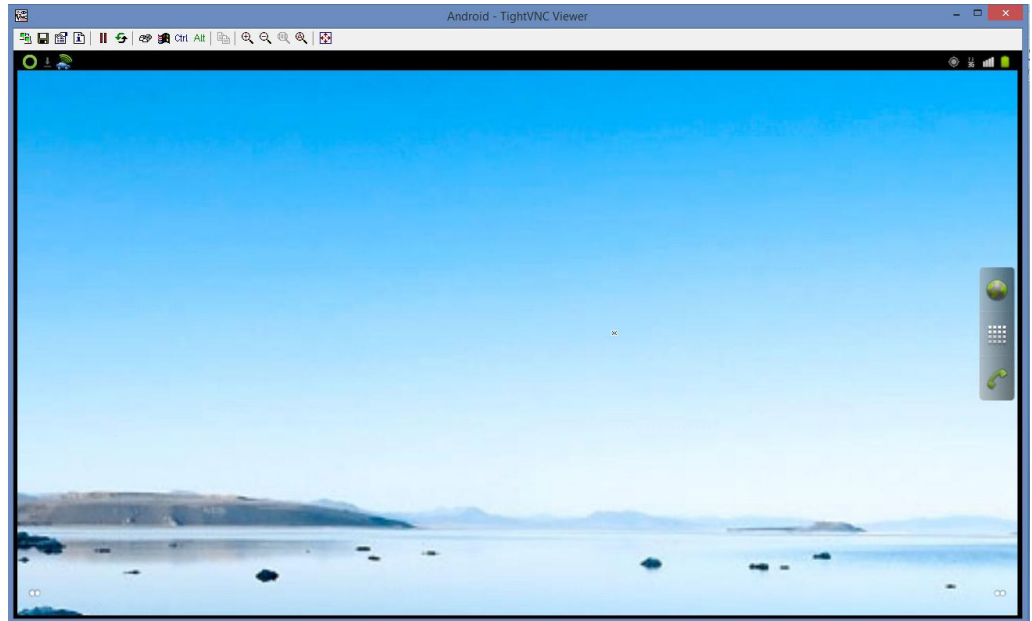


Figure 4: Plasma/ION home screen

NOTE: Both the options mentioned above are also applicable for Plasma.

2.5 Check for cellular signal:

- Cellular signal strength should be full as shown in (Figure 5 (1))
- If SIM device is in roaming area then it should show roaming symbol with signal strength symbol.
- If it showing no signals, then try to search signal manually. for this go to home page of Plasma/ION →Setting→Wireless and networks → Mobile networks →Network operators. It will search for operators and shows the list of available operators. Then select ‘Select automatically’ option so it will connect automatically to right operator. Then check for signal strength.

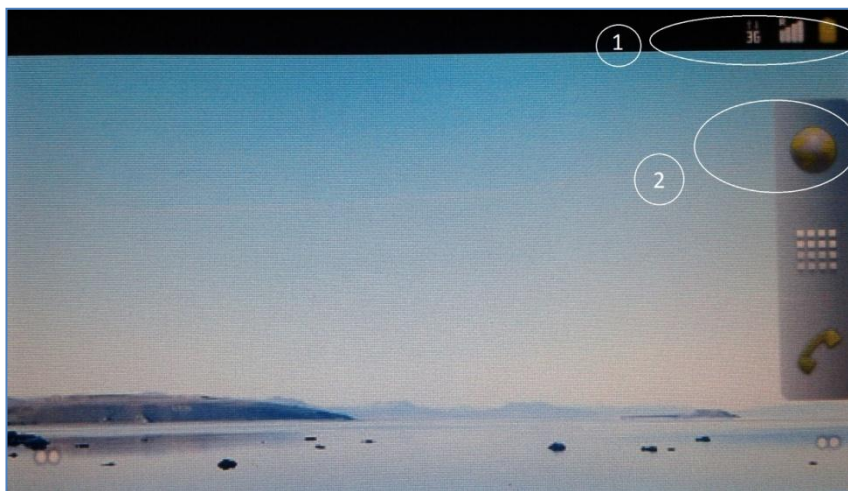


Figure 5: Plasma/ION home screen

2.6 Check for data setting:

- Go to home page of Plasma/ION →Setting→Wireless and networks → Mobile networks→
 - Check ‘Data Enable’ check box.
 - Check ‘Data roaming’ check box (If device is in roaming area).
 - Network Mode: Select ‘GSM/WCDMA preferred’ option.
 - System select: Select ‘Automatic’ option.
 - ‘Use only 2G network’ should be unchecked.
 - After finishing above setting it should enable cellular data and it will shows 3G or 2G data symbol on right side top of screen as shown in (Figure. 6 (1))

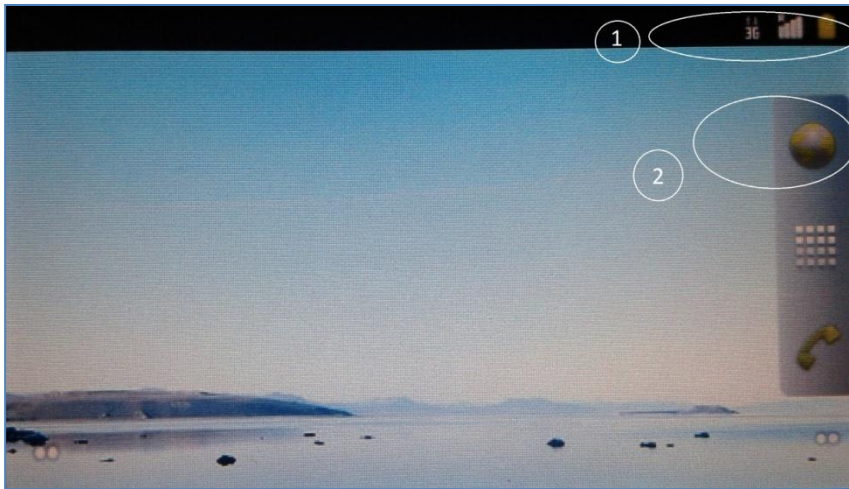
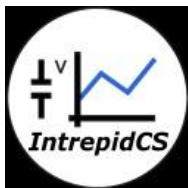


Figure 6: Plasma/ION home screen

3. Contact Us:



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