



NavVideo Installation Guide

G-NET NavVideo · 99 Porter Court · Guelph, Ontario, Canada · N1L 1L8 · Tel: (519) 780-1341 · www.navvideo.com



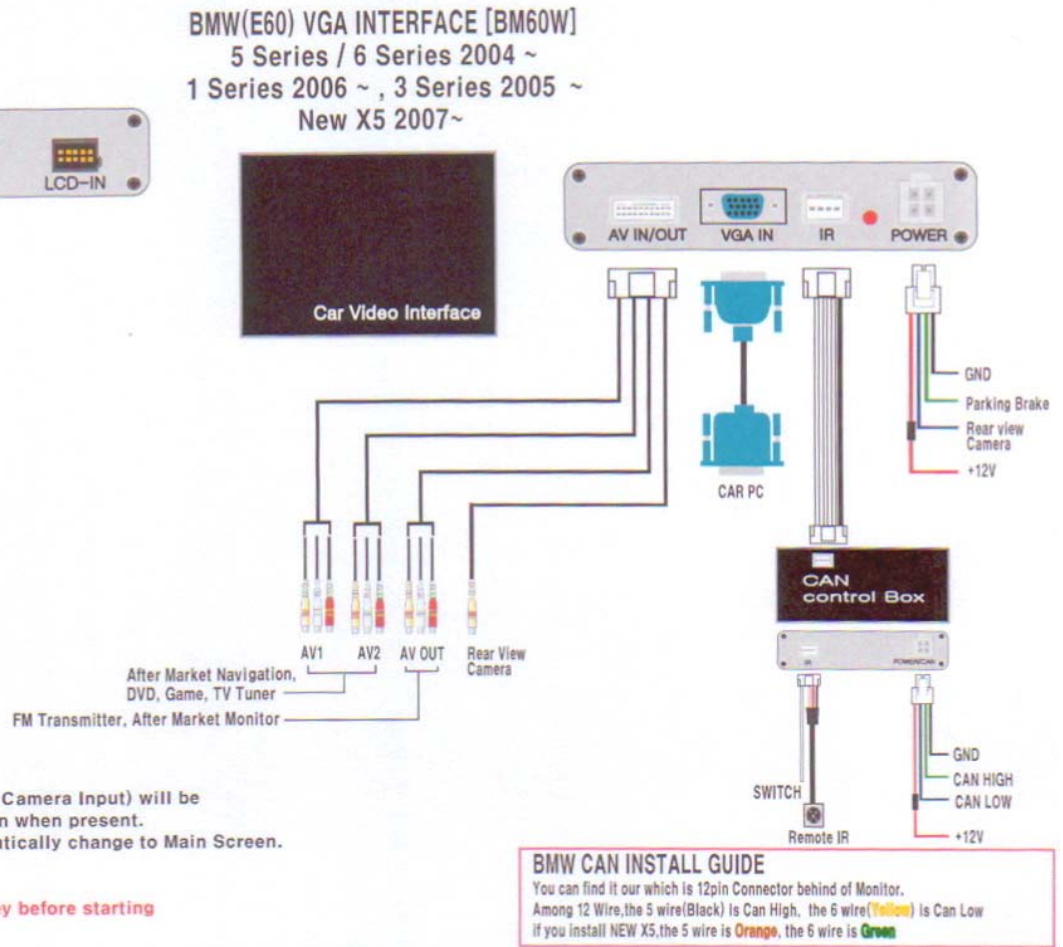
GNET_BMW356

Video Input Module For BMW E87 1 Series, BMW E60 5 Series, BMW E63/E64 6 Series,
BMW E90 3 Series, 2007+ E70 BMW X5

Warning

1. Before working, please make sure the vehicle power is off (please keep in mind when pulling out the key, only monitor supply would be off but whole vehicle power supply would be off 5 minutes later).
2. Starting with separating of the monitor and the connector removed in working may causes an error code. Do not start until the work is done.
3. Please use appropriate measure of tools
4. Do not force excessively in assembling or disassembling, tightening or pulling
5. Using protecting clothes or taping around the working area, take care of scars
6. Please make sure to connect the power cable using a fuse when you use it with pulling out the power supply.

System Connection Diagram



LCD IN and OUT	The GNET_BMW356 unit is installed inline of the BMW OEM LVDS connector. The factory BMW LVDS connector that is plugged into the back of the BMW LCD Screen will connect to the port labeled “LVDS IN” on the G-NET Module. Then, the LVDS cable provided with the G-NET Module will connect to the port labeled “LVDS OUT”, the other end of this cable will be plugged into where the factory BMW LVDS connector was once plugged into, at the back of the LCD Screen. NOTE FOR BMW 1 SERIES – Use pin coupler converter provided to connect LVDS connector on 1 series.
AV1 IN	Composite Video & Audio Input For Any Video Device (only video will go into the OEM navigation / multimedia system, audio is only for output switching)
AV2 IN	Composite Video & Audio Input For Any Video Device (only video will go into the OEM navigation / multimedia system, audio is only for output switching)
AV OUT	Will output the audio and video from AV1 or AV2 depending on which is currently

	selected.
REAR VIEW CAMERA	This composite video connector will accommodate a rear video camera that features an NTSC composite output. This input is trigger-able with the "LAMP RV" wire, so when the vehicle goes into reverse, this input is displayed.
VGA IN	This connector allows the connection of a Car PC / Carputer. The resolution of the VGA output on the Car PC should be set to 640x480 at 60hz
REMOTE / IR	Infra red eye that allows that will be mounted somewhere in the dash. This wire can optionally be connected to the optional BMW CAN control box. The CAN control box will allow the user to switch video sources using the IDRIVE "Menu" button on the vehicles center console, instead of having to use the remote. If the CAN box is present, the remote/IR eye can be connected to it to provide IR Remote support as well.
RED WIRE	12V DC Input
BLACK WIRE	Ground
BLUE LAMP/RV	Reverse trigger. When 12V DC is applied to this wire, the REAR VIEW CAMERA INPUT will automatically be displayed on the screen. This is often used for a reverse camera setup.
GREEN WIRE	Parking brake ground. Safety ground. This wire must be grounded for video in motion to work.
OPTIONAL CAN Control Box SEE IMAGE IN STEP 12	GND – Black – Ground 12V – RED – 12V DC CAN HIGH – Attach to 5 th wire/pin (BLACK – (orange on new X5)) on BMW 12 pin oem connector behind dash. CAN LOW – Attach to the 6 th wire/pin (YELLOW – (green on new X5)) on BMW 12pin oem connector behind dash. The CAN control box will allow the user to switch video sources using the IDRIVE "Menu" button on the vehicles center console, instead of having to use the remote.

[How To Remove The Monitor From The Dash](#)

There are star shape screws on upper part of the monitor. Using exclusive instrument, loosen the screws and remove the monitor.



LVDS Connector, power & signal connector



This is the front of the monitor.



This is the backside of the monitor.



This is monitor's side part.
Silver color square connector id the LVDS connector.



It shows the monitor connector.

This is the connecting part of the power supply and communication line.



It shows separated duct and wood.

When using of audio's FM modulator, remove as the picture when you should connect the line with radio antenna at the backside of BMW's audio.





STEP 5: Disconnect both cables behind
The display unit



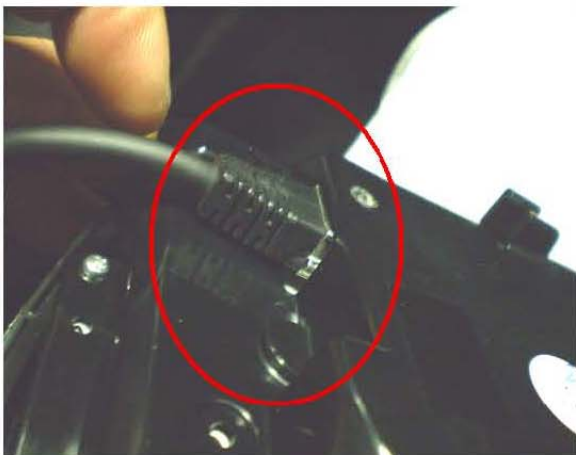
STEP 6: Connect LVDS Cable to
LCD IN side of the INTERFACE.



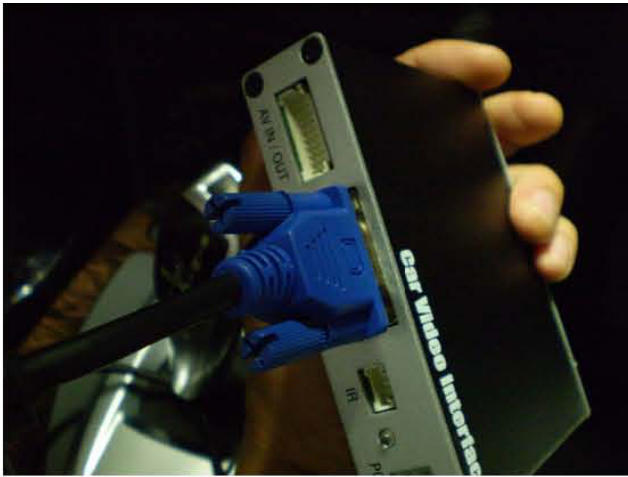
STEP 7: Connect supplied LVDS Cable
To LCD OUT side of the INTERFACE



STEP 8: Make sure to see if these
Connections are secure.



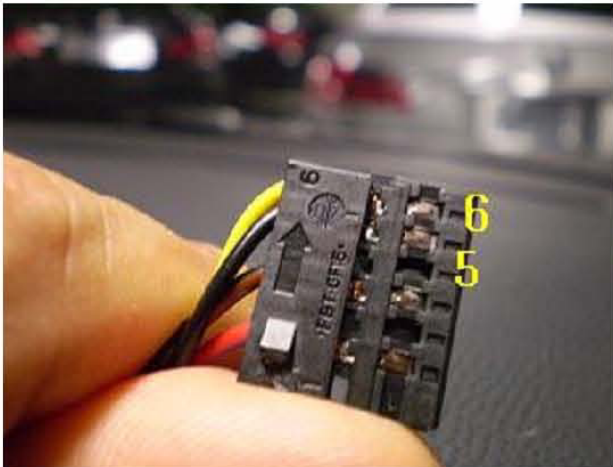
STEP 9: Connect LVDS Cable to display
Part of the in-dash unit.
Make sure that this connection
is secure.



STEP 10: Connect the VGA Cable to the VGA Interface



STEP 11: Connect VGA Cable to CAR-PC
Make sure that this connection is secure.



STEP 12: You can find it out which is 12pin Connector behind of Monitor.
Among 12 Wire the 5 wire is Can High the 6 wire is Can Low.
Do not cut the Can High & Low wire; You must be joining those wires.



STEP 13: Run the wire for the remote eye so that the eye can line up with the remote signal.



STEP 14: Secure the remote eye in a location that it will receive the Remote signal