



Discover The Possibilities™



## How to Make a Device Real Time Compass Navigator

In the case that an IP controlled device needs a constant socket with Compass

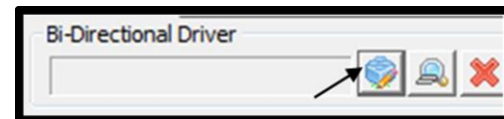
### IF Your Program is **Modular**:

1. In Navigator, edit module for desired device (.mod mode, not .ksp mode)
2. Select device from System Designer tree
3. In the properties window, press the blue block button to open the script editor window (fig. 3)
4. In the Script Editor, key the following text (fig 4/5)
 

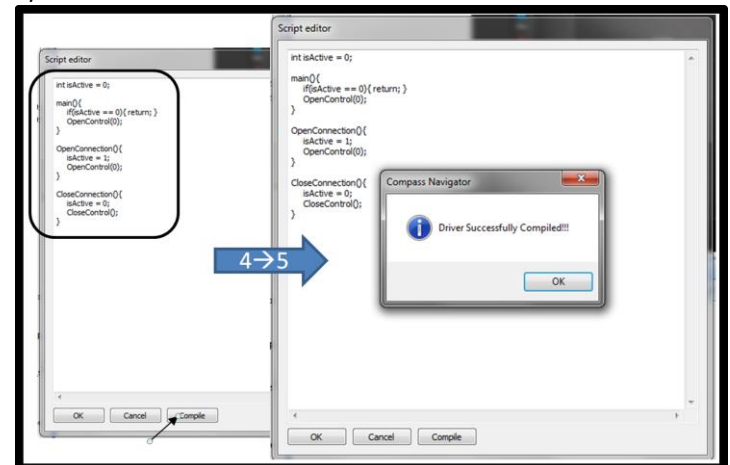
```
int isActive = 0;
main(){
    if(isActive == 0){ return; }
    OpenControl(0);
}
OpenConnection(){
    isActive = 1;
    OpenControl(0);
}
CloseConnection(){
    isActive = 0;
    CloseControl();
}
```
5. Press "Compile" and receive confirmation that the driver has successfully compile. Press OK (fig 4/5)

### Example Figures

3.



4/5.



6. In device's properties, choose "Real-Time buffer in Master Controller (fig 6/7)

7. Set repetition interval to 1.0 seconds (fig 6/7)

8. In the Controller Designer panel, choose the module page for the device (fig. 8: 1), and add a show event (fig. 8: 2,3) and remove event (fig. 8: 2,4) to the page

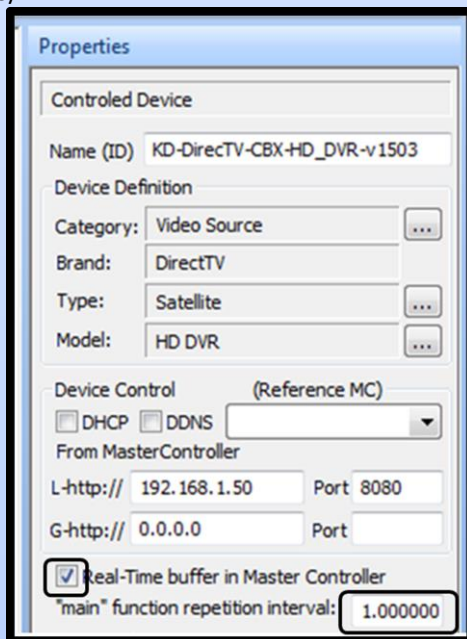
9. The show event opens the connection with the device via the bi-directional macro as the page is entered (fig. 9)

10. The remove event closes the connection with the device via the bi-directional macros as the page is exited (fig. 10)

11. File → Exit and save module updates to return to project (.ksp)

### Example Figures

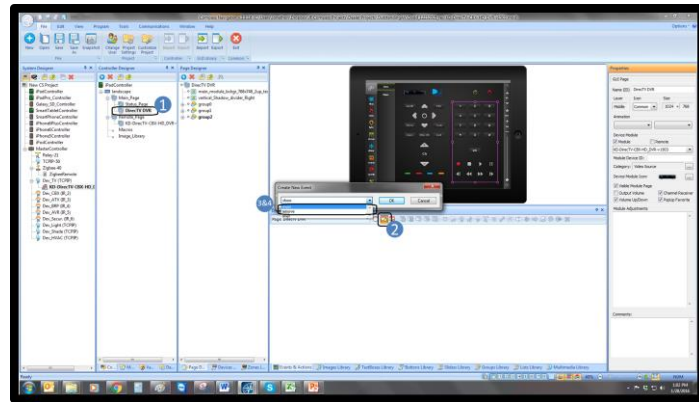
6/7.



### IF Your Program is Custom:

1. If there is no module for the device, you can create your driver using notepad and save the file as "DriverName.c". The script should be the same as instructed in Modular step 4.
2. In the device properties, choose the magnifying glass (seen in fig. 3) icon to locate your driver.
3. Press the blue block button (seen in fig. 3) to open the script editor , and press compile (seen in fig. 4/5)

8.



9.



10.

