Color Control GX – Firmware change log

How to update?
See document 'Color Control - how to update firmware' for update instructions. Note that a Color Control which is connected to the internet (with its Ethernet connection), will automatically check for updates every night at 2 AM. It will automatically update itself, provided that automatic updating is not switched off in the setup menu.

What firmware version has my Color Control?
After power-up, you can find the firmware version in the Setup menu.

Change log:

v1.11 – 8 jan 2013
Recovery image: http://www.victronenergy.com/feeds/ccgx/images/CCGX-v1_11-RC4-recover.zip

Changes:
- Fixed 'Connection to BMV is lost after random time bug'. See v1.09 for details.
- VE.Bus BMS and CCGX can now be combined in one system. Important notes on how to install and which sockets to use are in the CCGX Datasheet.
- Added support for Lynx Ion to gui and in vrm-logscript
- Added support for USB-GPS to gui and in vrm-logscript
- Added support for AC Current Sensor to gui and vrm-logscript
- Changes to vrm-logscript
    - BMV Historic data and other similar parameters are logged on change only, to reduce bandwidth usage and database space
    - Backlog information, and flush backlog are added to menu item VRM logger
    - Added logging of update settings (auto-update, update-to-, local ip-address)
    - Fixed bug in Solar charger state (ON/OFF) param: it sent 4, it should have been 0.
    - Energy (kWh) data sent to VRM portal, as used for the consumption and solar yield tab, has been improved in many ways, but can still be further improved.
- Improved remote diagnostics. (menu Settings -> General -> Remote Support) See datasheet FAQ for more information
- Fixed bug: Temperature alarms on a Multi where interpreted as warnings, and warnings as alarms.
- Manual firmware update (with the recovery image) now also works from some USB sticks
- Added preliminary version of GPRS modem support. Test available on request.

Known issues:
- Updating from a previous v1.11-RC requires recovery from a card/stick! Even though it looks like you auto-updated to v1.11-RC4
- Finding a USB-GPS might take a while
- Remote support on/off setting will be changed from On to Off after a manual firmware update with recovery image.
- Support of recovery from USB sticks does not work on all sticks.

v1.10 – 8-11-2013
Production test changes only, therefore not deployed to automatic update system. Production tests are fixes in the MK2 test script.

v1.09 – 6-11-2013
Recovery image: http://www.victronenergy.com/feeds/ccgx/images/CCGX-v1_09-recover.zip

Changes:
- Fixed 'losing internet connection' bug. See v1.08 for details.

Known issues:
- When connecting multiple BMV's or VE.Direct MPPT's, the one used for the overview is chosen randomly.
- Bug: Connection to BMV-600 and BMV-700 can be lost after a random time. To get the BMV back online you have to power cycle the BMV (unplug the RJ-12 cable at the back of the BMV, and plug it back in again – Fixed in v1.11.

Limitations:
- The CCGX connected to VE.Bus cannot be combined with other MK2-based products: VE.Bus BMS, VE.Bus to NMEA2000 interface, BPP2, CCGX, VEConfigure2 and 3, VGR2, VER, Solar-Switch and custom built applications and software based on the MK2. These combinations can result in sudden power outages and other unexpected problems.
- Do not connect two Color Controls to the same VE.Bus network, see previous limitation.
- CCGX cannot be combined with a VE.Bus BMS. Will be fixed in as soon as possible – Solved in v1.11

- Data from BMV's connected with a VE.Direct cable or the VE.Direct USB cable will be logged to the VRM website, but the data is not yet visible on the website. This is being worked on right now and will be fixed in the coming weeks – Fixed with new VRM website, 12 dec 2013.

v1.08 – 4-11-2013

Changes:

- Added support for MPPT 70/15, MPPT 75/15, MPPT 100/15 en MPPT 75/50. Notes:
  - They can be connected both with a direct VE.Direct cable as well as a VE.Direct to USB interface.
  - Multiple can be connected at the same time.
  - The firmware version in the MPPT Solar Charger must be v1.09 or later. MPPT solar charger firmware can be updated with a VE.Direct to USB interface.
  - The 70/15 needs to be from year/week 1308 or later. Earlier 70/15's are not compatible with the Color Control GX. MPPT 70/15's currently shipping from our warehouse are of the required newer version.
- Added support for connecting multiple BMV's at the same time
- Added time zone setting in menu
- Fixed bug: grid converter power for L2, L3 is sometimes not read (and kWh-counted) properly. Sometimes it is.

Known issues:

- When connecting multiple BMV's or VE.Direct MPPT's, the one used for the overview is chosen randomly.
- Bug: in some situations, after losing its internet connection, the Color Control requires a restart to have a working internet connection again. (DHCP random address bug). For details see v1.07. Bug is fixed in v1.09
- Bug: Connection to BMV-600 and BMV-700 can be lost after a random time. To get the BMV back online you have to power cycle the BMV (unplug the RJ-12 cable at the back of the BMV, and plug it back in again.

Limitations:

- The CCGX connected to VE.Bus cannot be combined with other MK2-based products: VE.Bus BMS, VE.Bus to NMEA2000 interface, BPP2, CCGX, VEConfigure2 and 3, VGR2, VER, Solar-Switch and custom built applications and software based on the MK2. These combinations can result in sudden power outages and other unexpected problems.
- Do not connect two Color Controls to the same VE.Bus network, see previous limitation.
- CCGX cannot be combined with a VE.Bus BMS. Will be fixed in as soon as possible.
- Data from BMV's connected with a VE.Direct cable or the VE.Direct USB cable will be logged to the VRM website, but the data is not yet visible on the website. This is being worked on right now and will be fixed in the coming weeks.

v1.07 – 30-09-2013

Recovery image: http://www.victronenergy.com/feeds/ccgx/images/CCGX-v1_07-recover.zip

Changes:

- Fixed both known issues from v1.06

Limitations:

- The CCGX connected to VE.Bus cannot be combined with other MK2-based products: VE.Bus BMS, VE.Bus to NMEA2000 interface, BPP2, CCGX, VEConfigure2 and 3, VGR2, VER, Solar-Switch and custom built applications and software based on the MK2. These combinations can result in sudden power outages and other unexpected problems. Note that making a solution for the combination of the CCGX and a VE.Bus BMS is top priority; it is expected in November 2013.
- Do not connect two Color Controls to the same VE.Bus network, see previous limitation.
- CCGX cannot be combined with a VE.Bus BMS. Will be fixed in as soon as possible.
- Only one BMV can be connected. It can be connected with a VE.Direct cable, a VE.Direct USB cable or the VE.Can to NMEA2000 cable together with a BMV-60xS to NMEA2000 interface. Connecting more than one at the same time will be possible in the near future (November).
- Data from BMV's connected with a VE.Direct cable or the VE.Direct USB cable will be logged to the VRM website, but the data is not yet visible on the website. This is being worked on right now and will be fixed in the coming weeks.

Known issues:

- Bug: grid converter power for L2, L3 is sometimes not read properly. This also affects the kWh-counters. Occurrence: random. Sometimes it is counted properly. This bug has always been there, since day one. Fixed in v1.08

- Bug: in some situations, after losing its internet connection, the Color Control requires a restart to have a working internet connection again. Details:
  If the Color Control does not receive response on its DHCP request, it will generate a random ip-address. It will not retry getting an ip address through DHCP for at least 3 days, perhaps forever. A typical situation where this happens is: AC power fails, customers internet router (and DHCP server) is switched off. The Color Control GX is powered from the battery and stays connected. Its Ethernet links goes down. Then the power is restored, router gets power, Ethernet connection comes up again, but the DHCP server is not yet ready. Color Control creates the random address, and will be disconnected from VRM. Workaround: reboot the Color Control GX. This bug has always been there, since day one. Bug will be fixed in v1.09

v1.06 – 27-09-2013
Changes:
- added support for BMV-60xS and BMV-70x connected via the VE.Direct ports. Only one BMV can be connected, more will be possible in the near future.
- bug "kwh-counters not logged to vrm after mk2_dbus service restarted" is fixed
- production test changes
- the current date and time, as shown in the settings menu, is now constantly updated. It used to be updated only once when the user entered this menu.

Known issues:
- When a BMV is not connected during power up, going to the Overview will cause all values to stop working.
- When you are in a second level menu and then go to the overview, the gui does not function proper anymore when a BMV is connected. To go back to normal operation remove BMV or press escape (A, left top) button

v1.05 – 05-09-2013
Production test changes only, therefore not deployed to automatic update system

v1.04 – 05-09-2013
Changes:
- implemented workaround for missing/losing VE.Bus data bug
- removed shutdown functionality and added reboot option in menu settings/general. This is because of a hardware change (REV1): the Color Control GX will now always be on, it is no longer possible to switch it off.
- added key-press: when keeping a key pressed it will keep scrolling
- python sources are now also on CCGX, which makes it easy to change these (open source)

Known issues:
- Model and version from VE.Can products is not logged to VRM Portal
- After updating a Multi the CCGX should be rebooted for correct working of the kWh counters
- The battery values are randomly chosen from a BMV or Lynx-Ion when both are available
- Missing some translations

Limitations:
- Data is logged only with device instance 0

v1.03 – 14-08-2013
Changes:
- Added alarm relay functionality and settings to configure it
- Added support for BMV (connected through BMV to NMEA2000 interface) in the main menu
- Added support for BlueSolar MPPT 150/70 in the main menu
- Added option in menu to choose which types of automatic updates to except (Release / Release Candidate / Testing)
- Added check for updates 5 minutes after power up (it used to be only at 02:00 UTC)
- Bug fix: total PV watts reported in the overview for paralleled MPPT 150/70 is now correct
- Bug fix: total PV watts reported in the overview measured by multiple AC Current Sensors is now correct
- Various updates to the translations
- Bug fix: format of VE.Bus version number reported to VRM portal is now correct

Known issues:
- Model and version from VE.Can products is not logged to VRM Portal
- After updating a Multi the CCGX should be rebooted for correct working of the kWh counters
- The battery values are randomly chosen from a BMV or Lynx-Ion when both are available
- Missing some translations

Limitations:
- Data is logged only with device instance 0

v1.01 – 19-07-2013
Changes:

- MAC Address visible when Ethernet is offline
- Logger is on by default (only true when newly programmed or recovered)
- Added VRM portal ID in VRM online portal menu
- Added 'UTC' to current date and time
- Added notification when there is an update available online (only visible when automatic updating is switched off)
- Added possibility to define AC in 2 (for Quattro) when a custom profile is selected

Known issues:

- Model and version from VE.Can products is not logged to VRM Portal
- Model and version of VE.Bus products is not formatted correctly (2612205.0)
- After updating a Multi the CCGX should be rebooted for correct working of the kWh counters
- The battery values are randomly chosen from a BMV or Lynx-Ion when both are available
- Missing some translations
- Some texts, for example 'uur' which means hour, are shown in Dutch, even when English language is chosen

Limitations:

- Data is logged only with device instance 0
- The CCGX will log data from Lynx Ions, Lynx Shunt VE.Can, BMV and Solar Charger 150/70 to the VRM portal.

v1.00 – 17-7-2013
First release

Known issues:

- Model and version not proper logged due to missing on the dbus
- After updating a Multi the CCGX should be rebooted for correct working of the kWh counters
- The battery values are randomly chosen from a BMV or Lynx-Ion when both are available
- Missing some translations

Limitations:

- Data is logged only with device instance 0
- The CCGX will log data from Lynx Ions, Lynx Shunt VE.Can, BMV and Solar Charger 150/70 to the VRM portal. But it will not show anything about these devices on its own display. Use the System overview page on the VRM Portal to check if these products are connected OK.