Color Control GX

Firmware version v1.20

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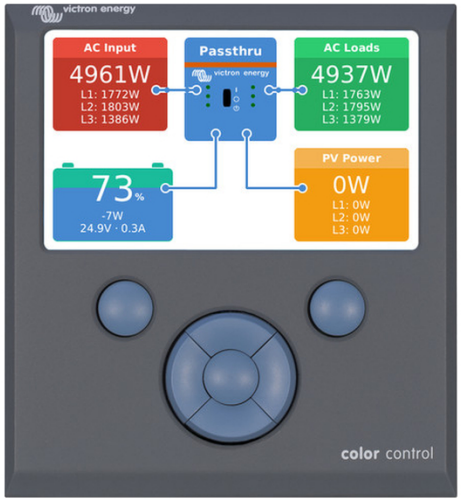

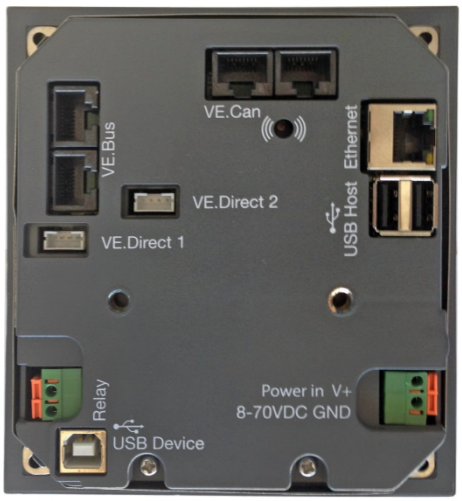

Color Control GX

The Color Control (CCGX) provides intuitive control and monitoring for all products connected to it. The list of Victron products that can be connected is endless: Inverters, Multis, Quattros, all our latest MPPT solar chargers, BMV-700, BMV-600, Lynx Ion + Shunt and more.

VRM Online Portal

Besides monitoring and controlling products on the CCGX, the information is also forwarded to our free remote monitoring website: the VRM Online Portal. To get an impression of the VRM Online Portal, visit https://vrm.victronenergy.com, and try our demo. See also the screenshots further down in this datasheet.

Future functionality

The CCGX has endless possibilities. To implement all our ideas and wishes will take years. There are therefore many features that are not yet available. Functions marked with 'Future function' will become available later on, as a firmware update. Firmware updates are free of charge, as with all Victron products. Updating the product is easy: the CCGX will update itself automatically, as long as it is connected to the internet. Manual updates can be done with a USB stick and microSD cards.

Supported products

- Multis and Quattros, including split-phase and three phase systems. Monitoring and control (on/off and current limiter). Changing settings is not yet available.
- BlueSolar MPPT 150/70 and the MPPT 150/85. Current solar output is visible on the overview screen, and all parameters are logged to the VRM online portal. Note that the VRM App has a nice overview showing data of the BlueSolar MPPT 150/70 as well. When multiple BlueSolar MPPTs with VE.Can are used in parallel, the Color Control will show all information as one. See also our blog-post about synchronizing multiple MPPT 150/70 solar chargers.
- BlueSolar MPPT Solar Chargers with a VE.Direct port (70/15, 75/15, 100/15, 100/30, 75/50, 100/50, 150/35) can be connected to the VE.Direct ports on the CCGX. Connecting multiple at the same time is possible. They will all appear as a separate Solar Charger in the device list.
- BMV-700 family can be connected directly to the VE.Direct ports on the CCGX. Use the VE.Direct Cable for this. See our pricelist.
- BMV-600 family can be connected to the VE.Direct ports on the CCGX. Use the VE.Direct to BMV60xS cable for that. See our pricelist.
- Lynx Ion + Shunt
- Lynx Shunt VE.Can
- Skylla-i
- NMEA2000 tanksensors
- A USB GPS can be connected to the USB port. Location and speed will be visible on the display, and the data is sent to the VRM Portal for tracking purposes. The map on VRM will show the latest position.
- WiFi USB. See our pricelist.

Note that there are more options for products which use the VE.Direct ports, such as BMVs and small MPPTs. They can also be connected through USB, useful when more than two products need to be connected. Use an off-the-shelf USB-hub, and the VE.Direct to USB interface, ASS030530000.

Other highlights

- When connected to the internet, the CCGX will update itself automatically when there is a new software version available.
- Multiple languages: English, Chinese, German, Italian, Spanish, French, Swedish and Dutch.
- Use the CCGX as a Modbus-TCP gateway to all connected Victron products. See our Modbus-TCP FAQ for more information.

Notes for existing VGR2 and VER users

- Opposite to the Victron Global Remote 2 (VGR2) and Victron Ethernet Remote (VER), the CCGX stores all data locally during network interruptions. As soon as the connection to the VRM Online Portal is restored, it will automatically send all backlogged data to the portal. Data can then be analyzed on https://vrm.victronenergy.com.
- Remote VEConfigure is not yet supported by the CCGX. This functionality is expected in 2015 Q1. It will be even better than the VGR2 and VER: it will include support for changing Assistants and their settings.
- The local website, as present on the VER, is not yet supported.
- The CCGX has no internal GPRS modem: you cannot insert a sim-card into the CCGX. Use an off-the-shelf GPRS or 3G router instead. See the blog post about 3G routers.

More information

For help with installation please read the Color Control GX Manual and visit the Frequently Asked Questions page.

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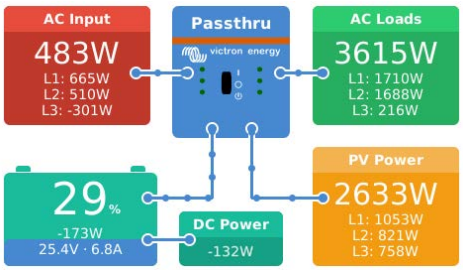
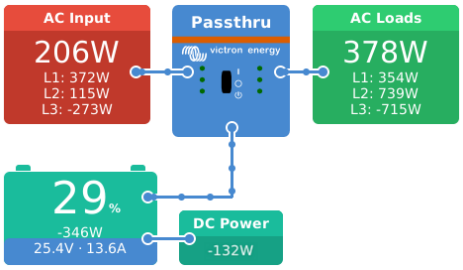
Color Control GX			
Power supply voltage range	9 – 70 V DC		
Current draw	12 V DC	24 V DC	48 V DC
Switched off	0 mA	0 mA	0 mA
Display off	140 mA	80 mA	40 mA
Display at minimum intensity	160 mA	90 mA	45 mA
Display at maximum intensity	245 mA	125 mA	65 mA
Potential free contact	3A / 30V DC / 250V AC (Normally open)		
	Communication ports		
VE.Direct	2 separate VE.Direct ports – isolated		
VE.Can	2 paralleled RJ45 sockets – isolated		
VE.Bus	2 paralleled RJ45 sockets – isolated		
USB	2 USB Host ports – not isolated		
Ethernet	10/100/1000MB RJ45 socket – isolated except shield		
	3rd party interfacing		
Modbus-TCP	Use Modbus-TCP to monitor and control all products connected to the Color Control GX		
JSON	Use the VRM JSON API to retrieve data from the VRM Portal		
	Other		
Outer dimensions (h x w x d)	130 x 120 x 28 mm		
Operating temperature range	-20 to +50 °C		

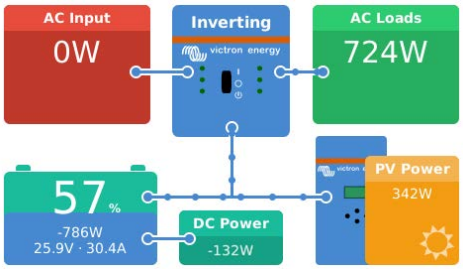
Overview - Multi with PV Inverter on output (Hub-2)



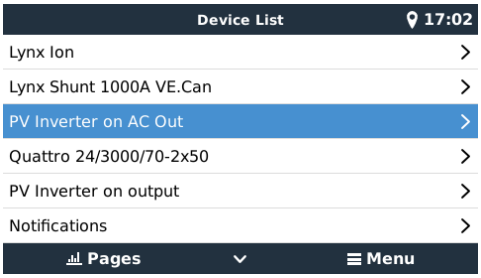
Overview - Multi



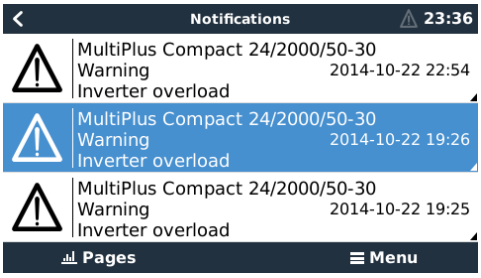
Overview - Multi with MPPT 150/70



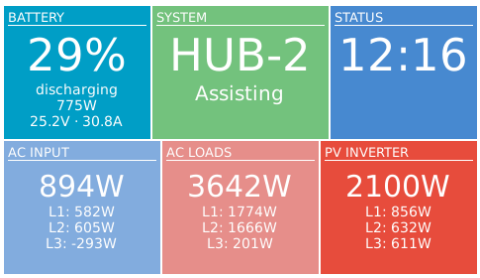
Main menu



Alarm notifications



Tiles overview – Hub-2 system



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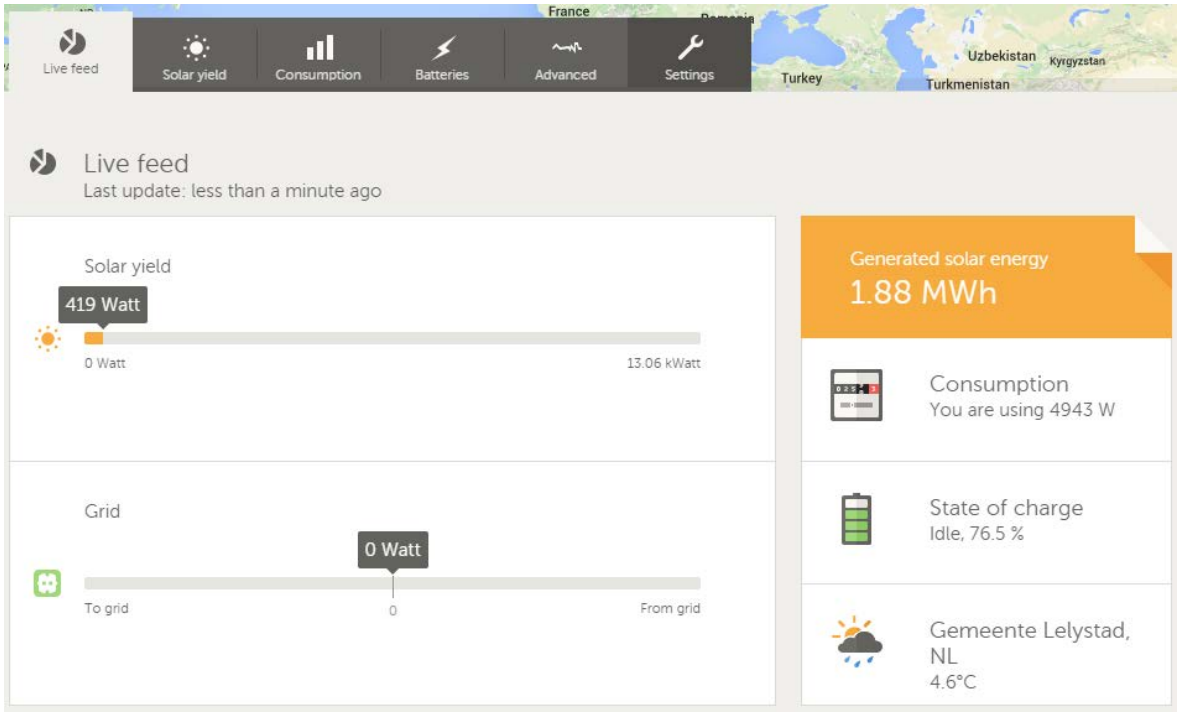
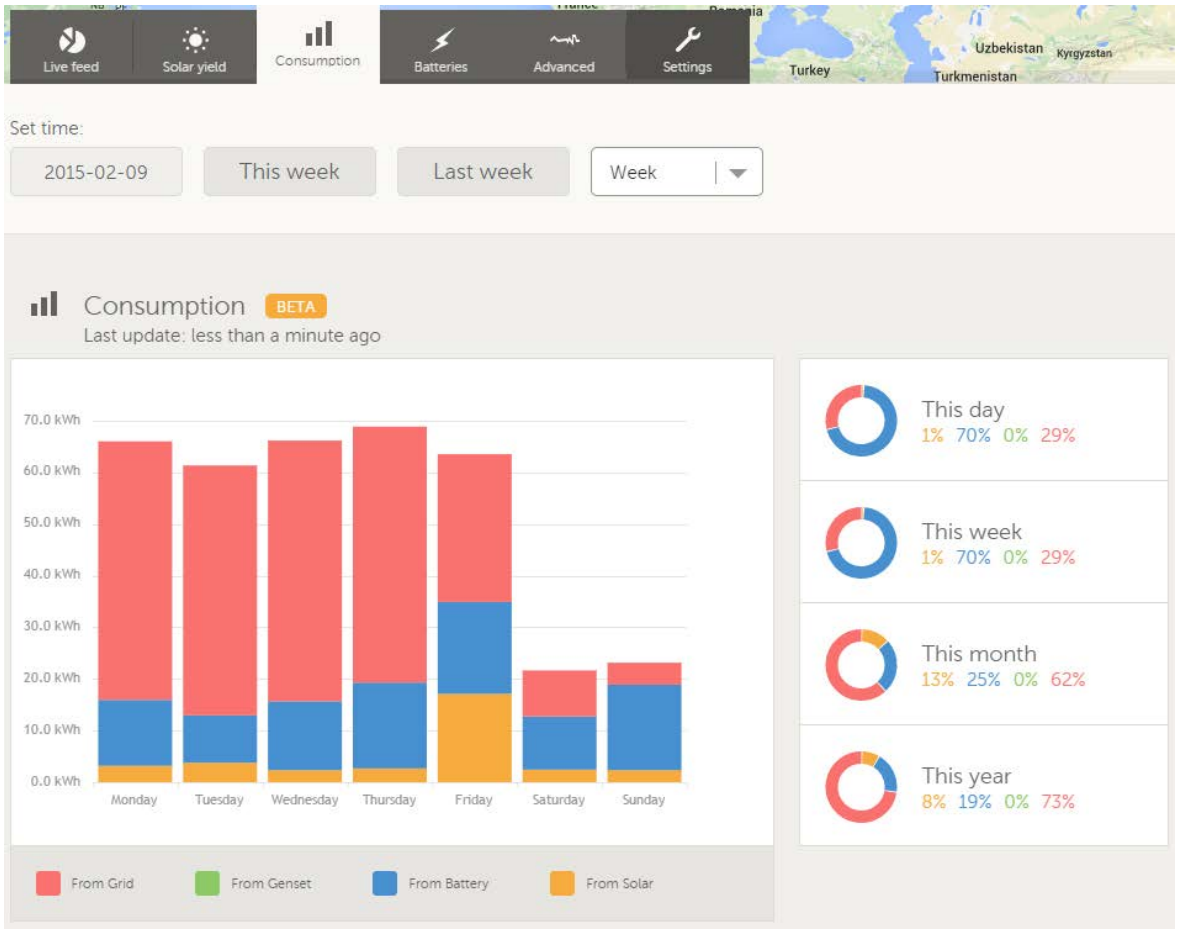
VRM Portal – Live feed



VRM Portal – Consumption



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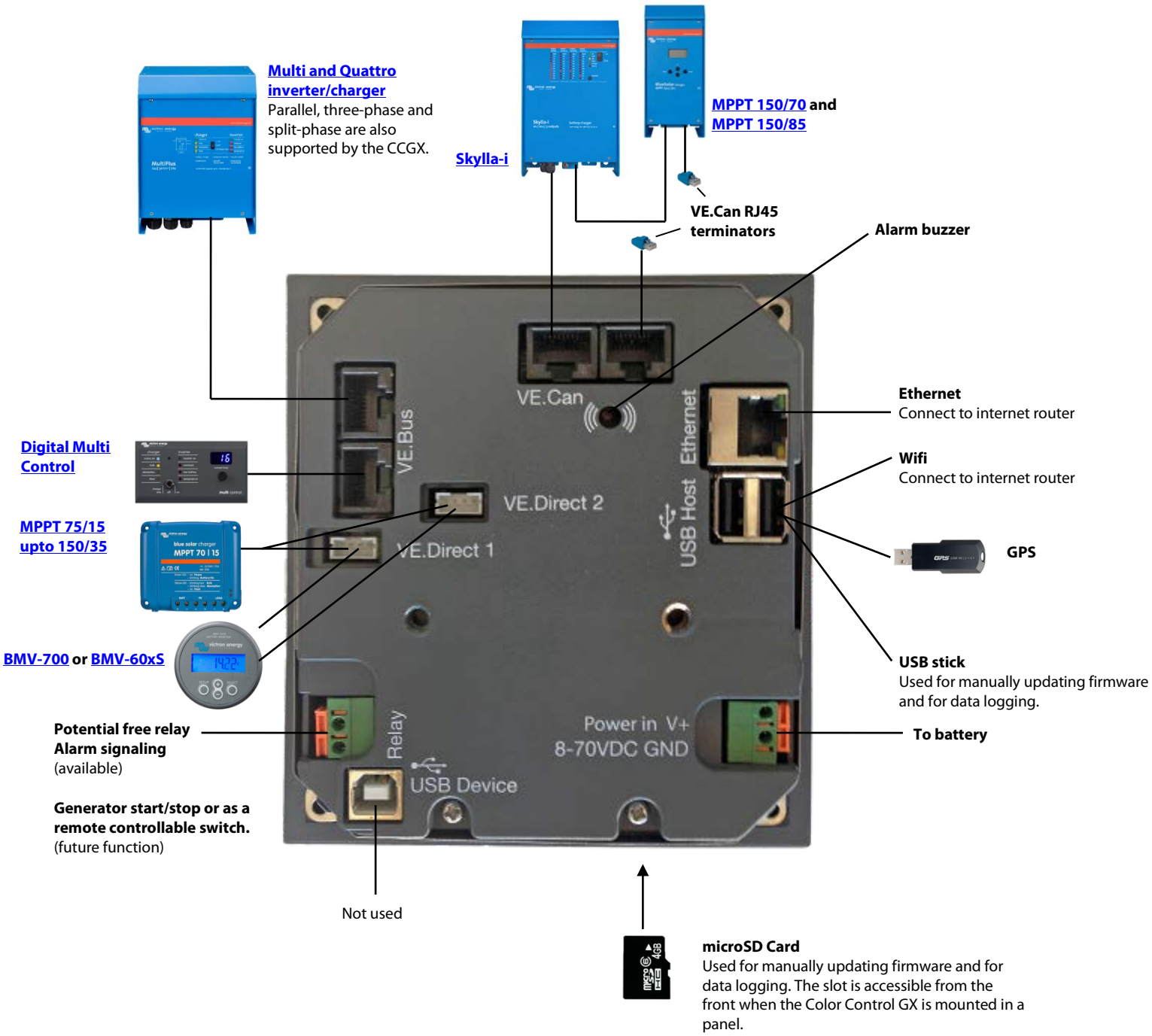
Color Control GX schematic diagram



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