



vGauge G12C firmware can be updated by loading a FLASH MEMORY file from PC/Laptop using the supplied 6-pin to USB cable.

A firmware update utility (BMPLoad) and latest G12C firmware file can be obtained from the vGauge support Web site.

The first step in performing a firmware update is connecting the supplied USB adapter cable to host PC/Laptop and verifying proper USB drivers are installed and a new COM port number is assigned in DEVICE MANAGER



In this example - COM PORT 5 was assigned to the G12C display when the USB cable was attached to the host PC. Verify the correct COM port by disconnecting the USB



cable and it should disappear from the list. Reconnect should reinstall the same COM PORT number.

Once you have verified the COM PORT number assigned to the G12C display, proceed to running the BMPLoad.exe utility to connect and download the update.

Start BMPLoad by double clicking on the BMPLoad.exe file. Once started, select the correct COM PORT number from the drop down list and select 57600 as the BAUD rate.

🛤 BMPload V1.8.0 - Supports SLCD, SLCD6, SLCD43	
BMP List	Selected BMP Information File Name Size Colors Bits per Pixel Bytes per Line Total bytes Notes Macro File
Add BMP Remove BMP Load BMP List Save BMP List	Add Macro File Font List File Add Font List Firmware Upgrade Add Firmware
Port Settings Binary Image Load / Save Port COM5 Baud Rate 57600 USB Connect Autobaud Connect	SLCD Status Status Not connected Bytes Available 0
Extra Settings Set Power On Macro Power On Macro Set Typematic Parameters Delay Repeat (x10ms) Enable Bitmap Compression Set Splash Screen Bitmap Number Set Control Port Port Number	Custom Palette ✓ High Color Set Aux Escape ABORT ASCII Hex Value Quit Set Touch Switch Debounce Delay (ms)



G12C Firmware Update

After configuring the COM PORT SETTINGS section, proceed to the CONNECT button

BMPload V1.8.0 - Supports SLCD, SLCD6, SLCD43	
BMP List	Selected BMP Information
	File Name
	Size Colors
	Bits per Pixel Bytes per Line
	Total butes Compressed
	Notes
	Macro File
	Add Macro File
	Font List File
	Add Font List
Add BMP Remove BMP Load BMP List Save BMP List	Firmware Upgrade
Sort BMP Files when added / loaded	Add Firmware
Port Settings Binary Image Load / Save	SLCD Status
Port COM5 Load from File Save to File	Status Connected
Baud Rate 57600 - CRC Value	Bytes Available 3145728
- USB Screen Snaphot	
AutobaudGetScreen	
Extra Settings	Custom Palette 🔽 High Color Store into SLCD ABORT
Power On Macro 1 🔽 Set Splash Screen 🗸	Set Aux Escape
Set Typematic Parameters Bitmap Number 1	ASCII Hex Value Quit
Uelay ☐ Set Control Port ☐ Repeat (x10ms) ☐ Port Number	Set Touch Switch Debounce

If successful connection, the STATUS section will show "Connected"



After connection to the G12C display, proceed to the Binary Image Load section and choose "Load from file" to select the firmware update file to transfer

Open Look in: C G12C_Update	Selected BMP Information File Name Size Colors Bite per Bitel Bytes per Line Compressed
Open Look in: 🔂 G12C_Update	Size Colors Bytes per Line Compressed
Open Look in: C G12C_Update	Bite cor Pivel Bytes per Line Compressed
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Look in: C G12C_Update	
CDI E 7 10212008 2 PIM	
CD1_3_/_10312006_2.814	
File name: CDI_5_7_10312008	8_2.BIN Open
Add BMP Files of type: Binary File (*.BIN)	Cancel
Sort BMP Fil	
Port Settings Binary Image L	oad / SaveSLCD StatusStatus
Port CUM5 Load from F	Puter Aurilable 3145728
Baud Rate 57600	
Log USB Disconnect Disconnect	GetScreen
Extra Settings	nap Compression 🔽 Custom Palette 🔽 High Color Store into SLCD ABORT
Power On Macro 1 Feet Splash S	Screen Set Aux Escape
Set Typematic Parameters	Port Set Touch Switch Debounce
Repeat (x10ms)	Number Delay (ms)

Select the correct firmware file and choose "OPEN" from the dialog.



After the correct file is selected, proceed to the STORE button in the lower right corner to start loading the new file.

🗱 BMPload V1.8.0 - Supports SLCD, SLCD6, SLCD43	
BMP List	Selected BMP Information
	File Name
	Size Colors
	Bits per Pixel Bytes per Line
	Total bytes Compressed
	Notes
	Font List File
	Add Font List
Add BMP Remove BMP Load BMP List Save BMP List	- Firmware Upgrade
Sort BMP Files when added / loaded	Add Firmware
Port Settings	SLCD Status
Port COM5 Load from File Save to File	Status Connected
Baud Rate 57600 Value	Bytes Available 3145728
Screen Snaphot	
Autobaud Disconnect GetScreen	
Extra Settings	
Power On Macro Development Carbon Power On Macro	Custom Palette V High Color Store into SLCD ABORT
Set Tunematic Parameters Bitmap Number 1	ASCII Hex Value
Delay Set Control Port	Quit Quit
Repeat (x10ms) Port Number	Delay (ms)



It will take from 2-3 minutes to copy the entire file to the unit. During this time the status section will show progress. Do not perform any other operation at this time as the G12C memory is first erased before new information is written. If interrupted, you will need to restart the procedure from the beginning.

🗱 BMPload V1.8.0 - Supports SI	LCD, SLCD6, SLCD43	
BMP List		Selected BMP Information
		File Name
		Size Colors
		Bits per Pixel Butes per Line
		I otal bytes Compressed
		Notes
		Macro File
		Add Macro File
		Font List File
		Add Font List
Add BMP Remove BMP	Load BMP List Save BMP List	
Sort BMP Files when added / loa	ded	Add Firmware
- Port Sottings		
Port COME	Binary Image Load / Save	Status Programming 2149548 Bytes, 2 % Completed
		D to A -1-11 21/6729
Baud Rate 57600 💌		Byres Available 10140/20
Lise Disconnect	Screen Snaphot GetScreen	
Extra Settings	Enable Bitmap Compression	Custom Palette 🔽 High Color Store into SLCD ABOBT
Power On Macro	🗹 Set Splash Screen 🗖	Set Aux Escape
☐ Set Typematic Parameters	Bitmap Number	ASCII Hex Value
Delay Repeat (x10ms)	Set Control Port Port Number	Set Touch Switch Debounce



M BMPload V1.8.0 - Supports SLCD, SLCD6, SLCD43	
BMP List	Selected BMP Information File Name Size Colors Bits per Pixel Bytes per Line Total bytes Compressed Notes Macro File Add Macro File Font List File Add Fort List Image: Selected BMP Information
Add BMP Remove BMP Load BMP List Save BMP List	Firmware Upgrade
Port Settings Binary Image Load / Save Port COM5 Baud Rate 57600 USB Connect Screen Snaphot GetScreen	SLCD Status Status Programmed 2149550 bytes in 387.3 seconds (5.6KB/s) Bytes Available 3145728
Extra Settings Very Set Power On Macro Power On Macro Power On Macro Set Typematic Parameters Delay Repeat (x10ms) Power On Macro Set Splash Screen Bitmap Number Set Control Port Port Number	Custom Palette V High Color Set Aux Escape ASCII Hex Value Delay (ms)

After successful completion, the status area will indicate unit is programmed

At this point the G12C is reprogrammed and should be power cycled to rest and load new settings.

Disconnect the USB cable from the unit and secure the dust protector cap.