

# Backing up Settings and Updating Firmware.

## Backing up settings

To back-up your existing settings to internal memory, connect via RS232 or Ethernet using the control UI or HyperTerminal. In the command line type – **System.BackupToSDCard()**. The unit will then return '!Done system.backuptosdcard' this indicates that the command has been accepted but not completed. Feedback will then be displayed showing the unit backing up the data to the internal memory. When the backup is complete the unit will display 'Backup: Complete'

## Firmware Updating

The CORIOmatrix has been designed for easy updating of both Software and Firmware to enable new facilities to be easily incorporated into units in the field. The method requires use of the USB rear connector to upload the new Firmware. Before carrying out this process the unit must have been powered up and logged into by use of the RS232 port.

## Connecting a PC to the CORIOmatrix

To upload the new Firmware a PC should be connected to the Rear USB connector. If this is the first time the PC is connected the PC may request drivers to be found, this is for the Serial Emulator, if these are not available then cancel this stage. The PC will then find an external drive. This is the internal SD Card and will come up with the Label TVONE. This drive is used to hold user files. To update the unit the user must drop two files into the root directory of this drive.

## Firmware File Description

The Firmware for the unit is a single file containing all the sub files required to load the system. The naming is in the form Mxxx\_S34.dat for the CORIOmatrix and Mxxx\_M00.dat for a CORIOmaster. The xxx being the version number.

The SD Card can have many Mxxx\_S34.dat files in the root directory. The user selects the desired file by the PLSBOOT file. This file is a 12 character long file that holds in text form the file to be uploaded. When a new file is sent to a customer a PLSBOOT is also sent that can replace the existing PLSBOOT in the root directory, the user can also directly edit the PLSBOOT on the TVONE drive to change the text to any of the Mxxx\_S34.dat files.

## Firmware update process

Once the new Firmware file and PLSBOOT file pointing to this file has been placed onto the TVONE drive the user should disconnect the USB cable and return to the RS232 control.

From the command line type - **Coriomax.software\_update()**

The reply should show that the PLSBOOT has been found and that it is loading the Mxxx\_S34.dat file.

The process then checks the file for integrity and will start Erasing the FLASH.

Files are then deleted and replaced. A message stating update successful will be shown followed by a rebooting of the system running the new Firmware. If it fails at any stage a command TVONE> prompt will appear.

## Restoring Settings

To restore backed up settings, internal memory, connect via RS232 or Ethernet using the control UI or HyperTerminal. In the command line type – **System.RestoreBackup()**. The unit will then return '!Done system.restorebackup' this indicates that the command has been accepted but not completed. Feedback will then be displayed showing the unit restoring the data from the internal memory. When the restore is complete the unit will display 'Restore: Complete' The unit will need to be rebooted to initiate the settings.