

## CF Imager system



## Additions to Manual

Only major changes are listed, there are usually also various minor bug fixes, optimisations and error handling improvements.

V2.219 – released 17<sup>th</sup> June 2010, changes:

- Export Colony Data bug fix from V2.213

V2.218 – released 7<sup>th</sup> June 2010, changes:

- Open/Save File bug fix from V2.217

V2.217 – released 11<sup>th</sup> March 2010, changes:

- Full Stingray camera support – New updated Dolphin replacement
- Camera Driver Fix Dialog - for camera upgrades and broken installations
- Camera image is now correctly flipped in horizontal axis
- Reports if 'Dark level' is too high – saves ruining an run if the door is left open !
- Automatic checking for updates – done on start-up, requires Internet access
- Fixed occasional crash on Exit / Camera Disconnect

V2.213 - released 28<sup>th</sup> October 2009, changes:

- Histogram Values: now has extra 'value' column + Scale Info (Full Scale + Bin size)
- Export to Folder now includes image type in filenames + progress text shows what it is doing
- Thumbnail Info: made more consistent for different image types
- Histogram/Bitmap: fixed Full Range Histogram for NPQ + various scale errors
- Fixed bugs in Image Data Values and Histogram Values (Export via Clipboard & to Folder)
- Preparing for Stingray Camera support (not yet enabled):
  - Added Camera DLL/SYS version checks
  - info shown on Hardware dialog + if problem on Camera Connection

V2.212 - limited release 15<sup>th</sup> September 2009, changes (from V2.209):

- Build/Auto Build changes
  - was allowing an NPQ to be built from 2 Fm images, now requires Fm and Fm'
  - Current Pulse Fm (CP Fm), used for NPQ etc, now shown on thumbnails with white highlight
  - Auto Build Options (was Build Options), gives options for which Fm to use for NPQ etc.
  - All defaults are to use same search as previously, for data consistency:  
FvPFmPandFqPFvP: CP Fm else 1st Fm, NPQ & FvFmFo: CP Fm else Nearest Previous Fm
- Copy to Clipboard renamed as Export via Clipboard.
- Image menu + Thumbnail and Image context (right click) menus made more consistent
- Export via Clipboard and other options are on Thumbnail menu for easy access
- CPU usage considerably reduced by adding waits into the sampling code
- Aperture Adjust for Map and Calibration - now gives coloured bar to help reach optimal signal
- Lights Calib, now gives a warning before starting

- AVT Error handling improved + added DLL version check to Hardware Dialog

V2.209 - released 13<sup>th</sup> March 2009, changes (from V2.207):

- Corrected extreme protocol settings which can excessively stress the LEDs
- Improved Protocol Dialog operation and appearance
- Amended results resolution to 3 SF
- Some exported data was in 0-255 format, this is all now correctly "Factor Corrected"
- Added Remote Control - for operation of FluorImager by 3rd Party software
- Program and Setup files are digitally signed by Dr Nigel Brooks

V2.207 changes:

- Bug fix: Wasn't giving a new document on start-up

V2.206 changes:

- Opening of multiple IGR files from File|Open, Explorer or Command Line
- File|Export to Folder + Toolbar button - exports all IGR file data to .txt (info), .csv (data), and .png (image) files in folder of same name as IGR file