**LabVIEW/Hardware Install and Set Up for use of Quantel System in minimal Runtime mode**

**Jan 9, 2015**

**Software**

Install LV Runtime 20xx and device drivers disc being sure to include:

NI-Motion

NI-Scope

NI-Switch

A copy of LabVIEW programs from lab and driver install files are at

Z:\Bio-Med Team folders\Ketterling\LabVIEW Install (64 bit machines may need 64 drivers for non NI hardware)

Install these 3rd party driver packages (need these even if not using the hardware)

Quantel Aviso Software

Acqiris 4.2c CD (may move folder to local drive)

Alazar - autorun.exe

If no actual Alazar card is installed, will need to manually place some dlls as explained the

AlazarMissingDlls folder.

GaGe CsDrvXX.exe (GaGe driver in 32 or 64 bit OS)

OceanOptics Don’t want to install but may need to compile with the .NET for ocean optics deleted in the global variable.

Misc Software Settings

Many of the software settings are tied to selections on front panel of QuantelGetData with location being one of the primary variables. The location settings are found in block diagram <CTRL> E 1, lower left case structure the key items are:

***Acqiris address*** – PCI::INSTR0 covers most cases but may need PCI::SERxxxxx

***Data paths*** – Need to choose partition.

**Hardware**

Measurement and Automation Setup.

Create virtual cards for a 6602 and a 6621 card.

Hardware Names

Multipurpose DAQ card (6221) ID should be "Dev1"

If an NI digitizer is used, name it "Dig1"

For special case with Quantel motor drive unit and second 6602 (or 6601 Card) name the card "Quant"

M&A Settings

Add these Data Neighborhood\NI-DAQmx Tasks if not present from profile transfer

~~“DIO-L2 L3” – Digital Output on Dev1/port0/line2 +Dev1/port0/line3~~

“Dev1 FlipFlop” – Digital Output on Dev1/port0/line1

“QuantFlipFlop”- Digital Output on Quant/port0/line0

~~“QuantGate” - Gate signal when using Aviso Quant\ctro~~