



Original “Start Acquisition” TCP Command (EPICS->PiXirad-1 Detector):
“DAQ:! LOOP *nframes shwidth dlywidth romode trgmode trsfmode biasmode*\n”
romode option list will be enhanced with “FTE” -> {“1COL0”, “1COL1”, “2COL”, “DTF”, “FTE”}

New TCP Command (EPICS->PiXirad-1 Detector) will be added to manage delays:
“DAQ:! SET_FTE_CONF *cycles exp1dt exp2dt sepdt*”
cycles : *unsigned integer how many times the EXP0,EXP1 sequence must be repeated (>1 means “accumulate”);*
exp1dt: *float (us);*
exp2dt: *float (us);*
sepdt : *float(us);*

From Image reception point of view (PiXirad-1 Detector->EPICS) a “frame” in “FTE” mode is the same as a “frame” in “2COL” mode;
The selection between internal or external triggers follows the same principles as before.
The only difference is that, when “FTE” mode is selected every frame acquisition needs *cycles* * 2 pulses at “Sync-in”;
The new firmware will be compatible with old interfaces implementations.