**Detectors summary:**

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| --- | --- | --- | --- |
| Detector | Mode | Typical experiment | Parameters |
| UHFQC\_input\_average\_detector | Input Average | Scope trace | nr\_samples (int)  nr\_averages (int) |
| UHFQC\_integrated\_average\_detector | Integrated Average | T1, AllXY | integration\_length (float in ns)  nr\_averages (int)  channels (list of ints)  result\_logging\_mode (‘raw’, ‘lin\_trans’, ‘digitized’)  real\_imag (bool)  seg\_per\_point (int)  values\_per\_point (int)  values\_per\_point\_suffex (list of str) |
|  | Integrated Average Single | Chevron pixel, Cryoscope | single\_int\_avg (bool)  values\_per\_point=1 |
| UHFQC\_correlation\_detector |  |  | integration\_length (float in ns)  nr\_averages (int)  rotate (bool)  real\_imag (bool)  channels (list of ints)  correlations (list of tuples)  value\_names (list of str)  seg\_per\_point (int)  single\_int\_avg (bool)  thresholding (bool) |
| UHFQC\_integration\_logging\_det | Result Logging | Readout Histograms | integration\_length (float in ns)  nr\_shots (int)  channels (list of ints)  result\_logging\_mode (‘raw’, ‘lin\_trans’, ‘digitized’) |