File Parameter IDs and Definitions

NOTES:

- Parameters and/or values for parameters may not be valid for all file types.
- Only parameters listed are available to Get/Set functions
- HD = Value is Set to/Get from Header

0 Integer: Size of File Header (Number of bytes before data)
1 Integer: Swap Bytes (0 = No, 1 = Yes)
2 float: HD: Header version (Get Only)
3 integer: HD: Camera/Controller Number (needed for multiple cameras)
4 integer: HD: Camera Type (value depends on manufacturer)
5 integer: HD: Camera Logic Output Setting
6 integer: HD: Chip X Dimension (Actual)
7 integer: HD: Chip X Pre Pixels
8 integer: HD: Chip X Post Pixels
9 integer: HD: Chip Y Dimension (Actual)
10 integer: HD: Chip Y Pre Pixels
11 integer: HD: Chip Y Post Pixels
12 integer: HD: X Dimension Acquired (accounts for ROIs)
13 integer: HD: Y Dimension Acquired (accounts for ROIs)
14 integer: HD: Shutter Type
15 integer: HD: Readout Mode (Full, Kinetics, etc.)
16 integer: HD: Number of Clears
17 integer: HD: Strips per Clear
18 integer: HD: Minimum Block Size
19 integer: HD: Number of Blocks
20 integer: HD: Timing Mode (Internal Sync, External Sync, etc.)
21 integer: HD: Triggered Timing Option (1=True,0=False)
22 integer: HD: Continuous Clears Option (1=True,0=False)
23 integer: HD: External Trigger Option (1=True,0=False)
24 float: HD: ADC Rate (1MHz, 100KHz, etc.)
25 float: HD: ADC Offset
26 float: HD: Exposure Time in Seconds
27 integer: HD: Number of Accumulations
28 float: HD: Experiment Temperature
29 integer: HD: Intensifier Gate Mode
30 integer: HD: Intensifier Gain
31 integer: HD: Max number of ROIs Allowed In Header (-1 = No Max)
32 integer: HD: Number of ROIs
33 integer: Index of ROI in Header to Access (1 based)
34 integer: HD: X Start of ROI
35 integer: HD: X End of ROI
36 integer: HD: X Bin of ROI
38 integer: HD: Y Start of ROI

39 integer: HD: Y End of ROI
40 integer: HD: Y Bin of ROI
42 integer: HD: Live Background Subtraction Applied (0=No,1=Yes)
43 integer: HD: Live Flat Field Applied (0=No,1=Yes)
44 integer: HD: Live Absorbance Applied (0=No,1=Yes)
45 integer: HD: Pulser Type (value depends on manufacturer)
46 integer: HD: Pulser Mode (Repetitive/Sequential)
47 float: HD: Repetative Pulse Width (usec)
48 float: HD: Repetative Pulse Delay (usec)
49 integer: HD: Sequential Increments: 1=Fixed, 2=Exponential
50 float: HD: Sequential Pulse Width Start (usec)
51 float: HD: Sequential Pulse Width End (usec)
52 float: HD: Sequential Pulse Delay Start (usec)
53 float: HD: Sequential Pulse Delay End (usec)
54 integer: HD: Number of On Detector Accumulations
55 float: HD: X Calibration Offset
56 float: HD: X Calibration Adjust
57 integer: HD: X Calibration Current Display Unit
58 integer: HD: X Calibration Is Valid Flag (0 = Not, 1 = Valid)
59 integer: HD: X Calibration Unit of Input of Calibration Values
60 integer: HD: X Calibration Linear Unit Used by Polynomial Coefficient Type
61 integer: HD: X Calibration Order of Polynomial Calibration
62 integer: HD: X Calibration Maximum Number of Pairs of Calibration Points
63 integer: HD: X Calibration Number of Valid Pairs of Calibration Points
64 float: HD: X Calibration Index of Point Pair
65 float: HD: X Calibration Point Pair - Pixel Position
66 float: HD: X Calibration Point Pair - Calibration Value
67 integer: HD: X Calibration Maximum Number of Polynomial Points
68 integer: HD: X Calibration Index of Polynomial Coefficient
69 float: HD: X Calibration Polynomial Coefficient
70 float: HD: X Calibration Laser Position (wavelength)
71 integer: HD: Center to Center X Size of Pixel (in um)
72 integer: HD: Center to Center Y Size of Pixel (in um)
73 integer: HD: Size of Gap Between Pixels in X Direction (in um)
74 integer: HD: Size of Gap Between Pixels in Y Direction (in um)

Ids 75 to 78 can be used to return the value as string or long data types
String Format = mm-dd-yyyy hh:mm:ss, Long Format = seconds since Jan 1 1970
75 string/long: HD: Local Date/Time Start of Data Storage
76 string/long: HD: UTC Date/Time Start of Data Storage
77 string/long: HD: Local Date/Time End of Data Storage
78 string/long: HD: UTC Date/Time End of Data Storage
79 64 bit integer: HD: Starting time of Data Storage in tics (stored as 64 bit signed integer)
80 64 bit integer: HD: Ending time of Data Storage in tics (stored as 64 bit signed integer)
81 integer: Start/End Time in Tics (via IDs 79,80) available in header (Read Only)
82 integer: Date/Time (via IDs 75-78) available in header (Read Only)