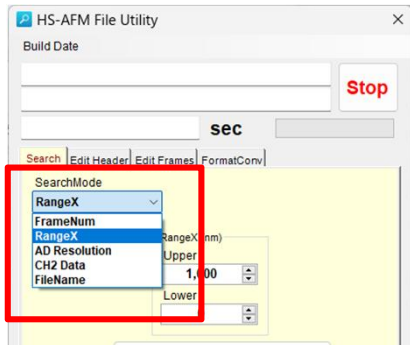


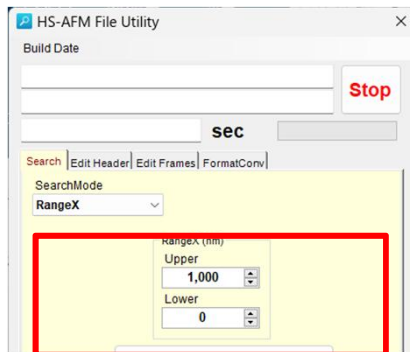
# Quick Guide for HS-AFM File Utility

## Search

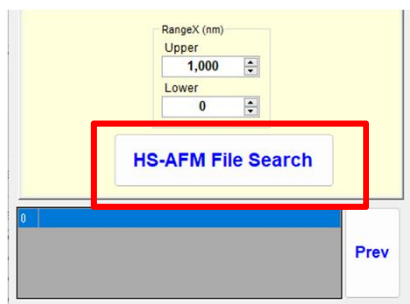
A function that searches ASD files in a folder that match with the search conditions.



1. Select the type of parameter you want to search.



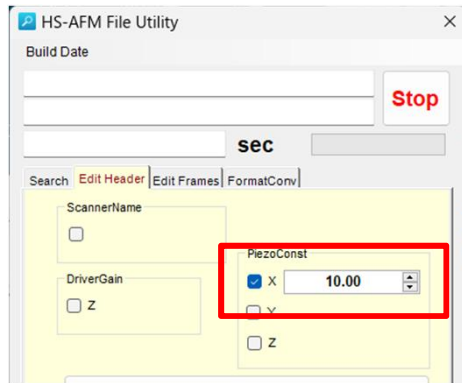
2. Enter the range and settings of the parameters.



3. After loading the folder containing the ASD files via D&D, press the Search button.

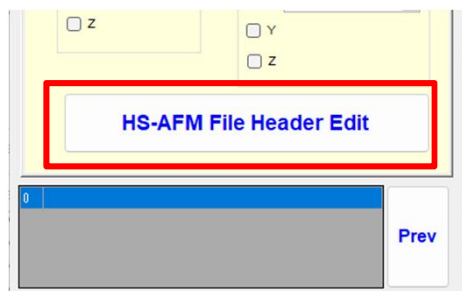
## Edit Header

A function to correct the parameters in the header of the ASD file if you realize a mistake in the scanner parameters after an experiment.



1. Check the checkbox next to the parameter.

2. Enter the numerical value of the parameter.



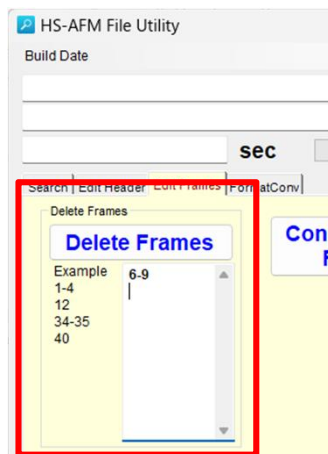
3. After loading the ASD file or the folder containing the ASD via D&D, press the Header Edit button.

## Edit Frames

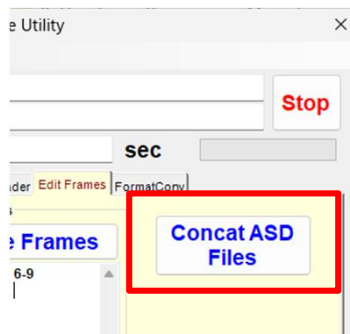
A function to delete specific frames within an ASD file (DeleteFrames) and a function to concatenate multiple ASD files (Concat).

The DeleteFrames is used to delete only frames where line noise is accidentally contained to some frames when a video file is generated.

The Concat is used when you want to generate a single video file from multiple ASD files or when you want to analyze data.



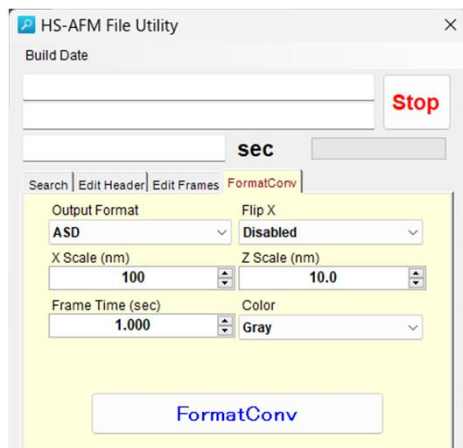
1. Enter the deleted frame number in the DeleteFrames group text box.
2. If you want to remove consecutive numbers, you can connect them with a hyphen, like 6-9.
3. 2. After loading the ASD file you want to edit in D&D, edit the header using the Delete Frames button.



1. After importing the multiple ASD files you want to concatenate via D&D, output the concatenated file using the Concat button. At this time, it is necessary to read files with the same pixel numbers and the same scan range.

## Format Conv

- Used to generate a single ASD file from multiple image (PNG, JPEG, TIFF etc.) files.
- Used to convert Olympus high-speed AFM is in TIFF format to an ASD file.
- Used to convert 24bit or 32bit images to 8bit images.
- Used to generate a single TIFF file (which can be opened by ImageJ). from multiple image (PNG, JPEG, TIFF) files



1. Enter the X scan size, Z range, frame time, etc. of the ASD file to be output.
2. First, convert the RGB data to 1CH grayscale and then output it, so set the color of the input image in Color mode. Select "Gray" for black and white images such as those used in Olympus AFM, and "AFM Gold" for gold-colored images used in high-speed AFM. If it is neither, set "Gray".
3. After loading a folder containing the image files you want to convert into ASD files via D&D, press the FormatConv button to output the ASD file.