InSegtCone Manual

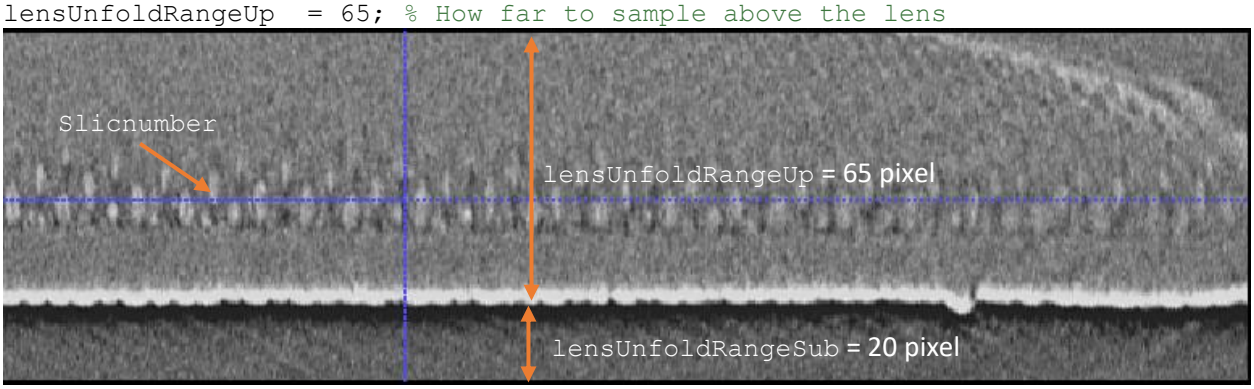
1. Change parameters in InSegtCone_input.m

```
saveDir % define the file prefix in the file name to be saved
datafile % microCT data file
labelfile % label file

%label value from volumetric segmentation
maskLabelValue % cone label
lensLabelValue % lens surface label

% subregion division
NumSectionX = 3; %divide into 3 parts in X direction (PCA space) for fitting
NumSectionY = 2; %divide into 3 parts in y direction (PCA space) for fitting


% the size of the data to unfold. Marked on the figure below.
lensUnfoldRangeSub = 20; % How far to sample below the lens
lensUnfoldRangeUp  = 65; % How far to sample above the lens
```




```
% parameters for training. Marked on the figure above.
slicenumber = [88 90 94 96 92 88]; % can decide manually by picking a good
slice

trainType = 1;
% 4 different ways of initialting the training:
% 0. no prior labelling. train from scratching
% 1. the other subregions use the last trained subregion as initial guess,
except the first one.
% 2. Use the saved training label png. Need to be exactly the same slice.
% Suitable for re-run the program to improve manual labelling
% 3. Use the saved dictionary.
```

2. Watch the video tutorial to see how to train the slice.