Tuskuba with imnoise(I1\_mono,'gaussian',31/256)





SGBM on noisy Tsukuba images (sigma = 31)



SGBM on clean Tsukuba images



Hirschmuller after leftRightCheck resulted in a blank image

Try sigma = 15



Try sigma = 5



Try using localvar instead: imtool(imnoise(i1mono,'localvar',0.002\*rand(size(i1mono))))





Wrote my own noise infusing function, adds noise with a sigma = 1 using pixel value as mean. Also presmooths the image to look more like images from the snapdragon, and offsets the intensity levels in one image from the other by 20 intensity levels, which isn’t too bad for Tsukuba:

 

Matlab disparity function gives



Hirschmuller gives: