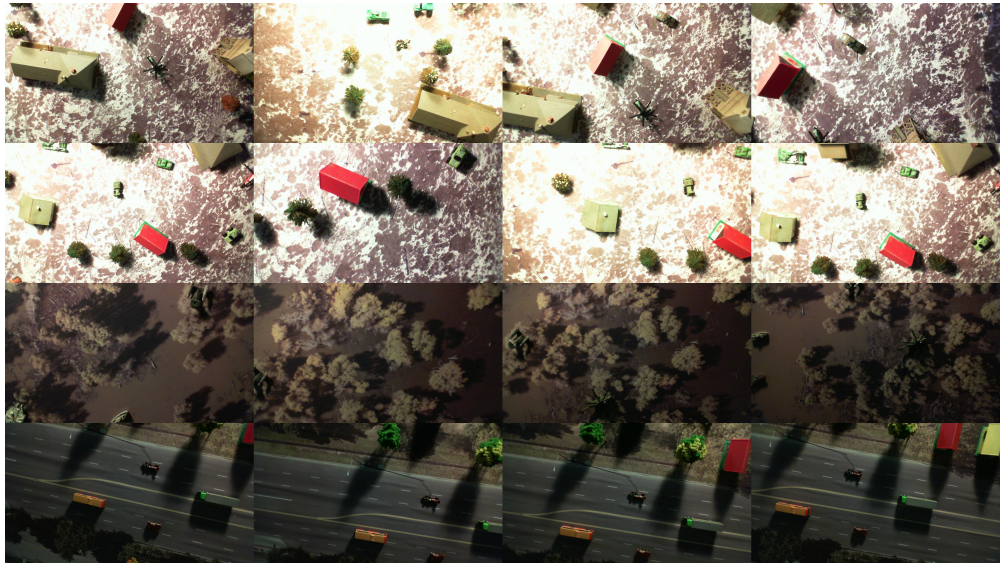
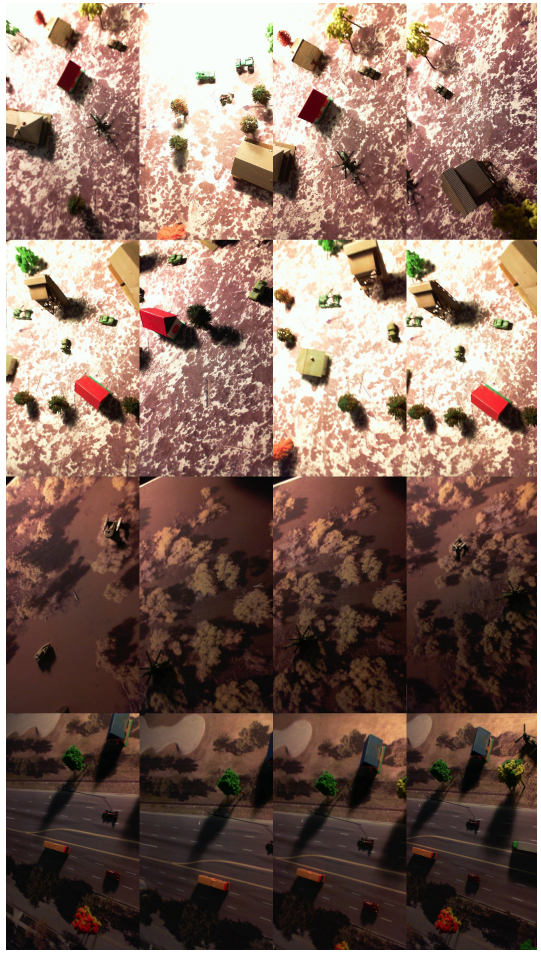
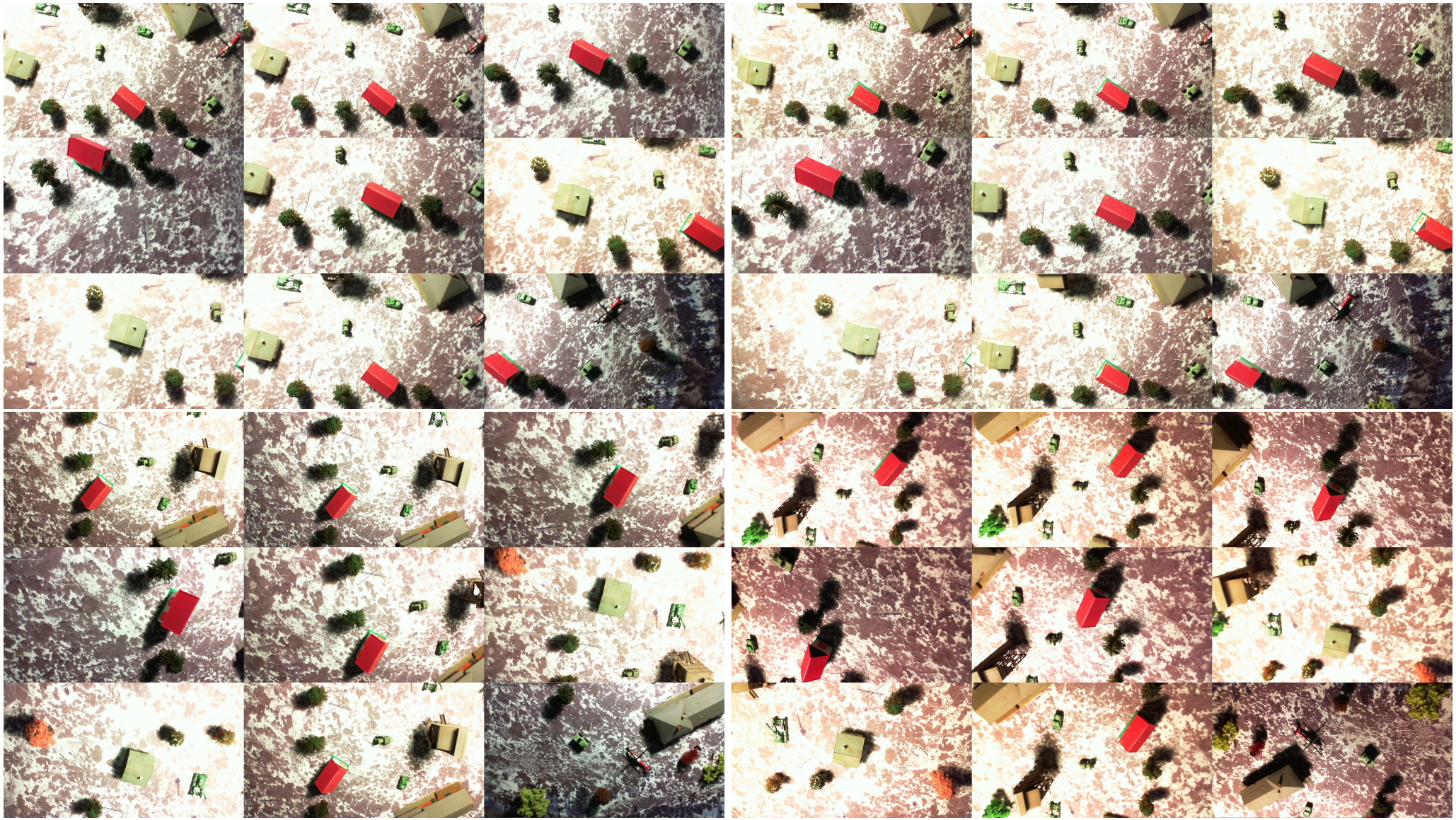
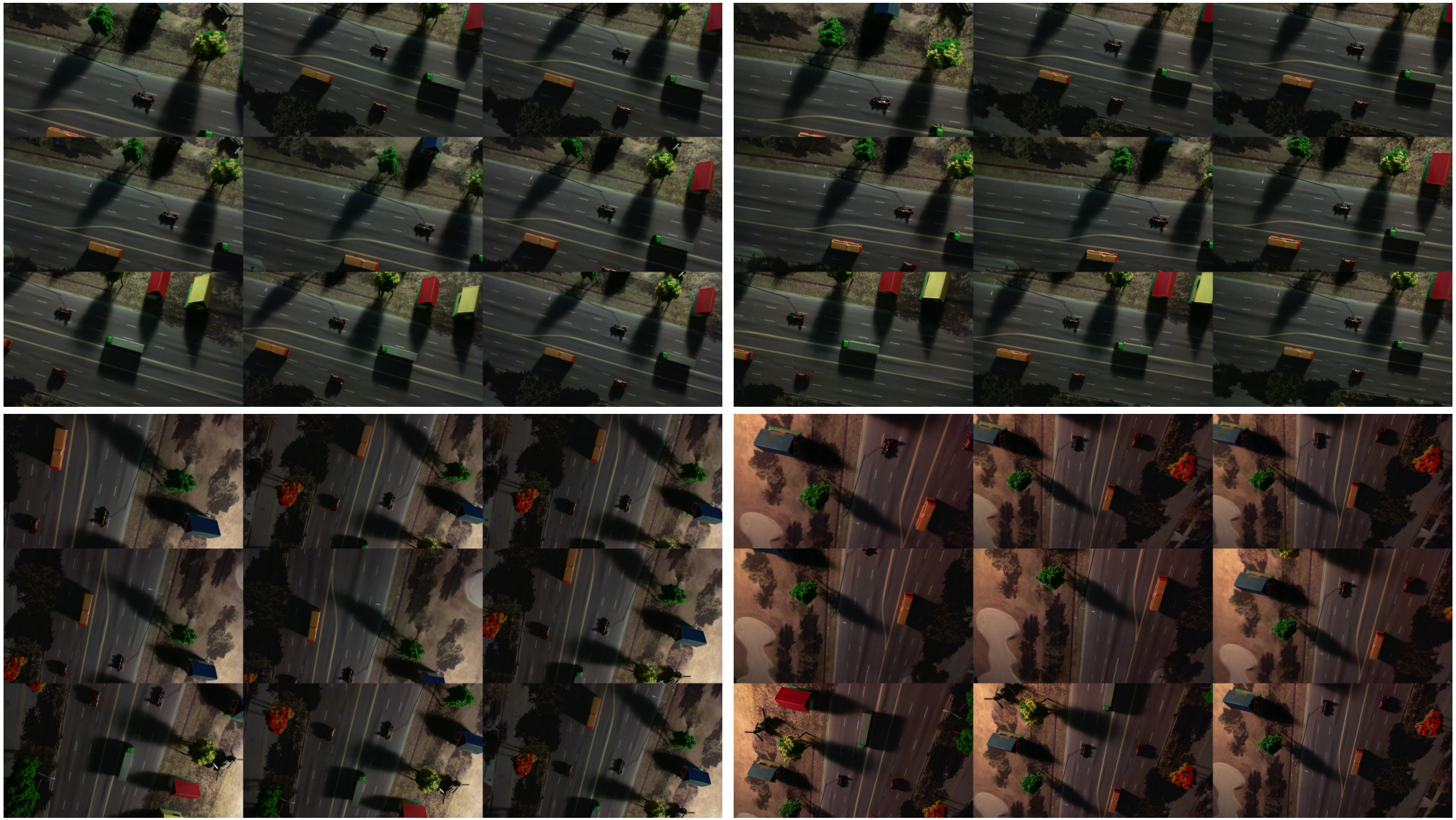
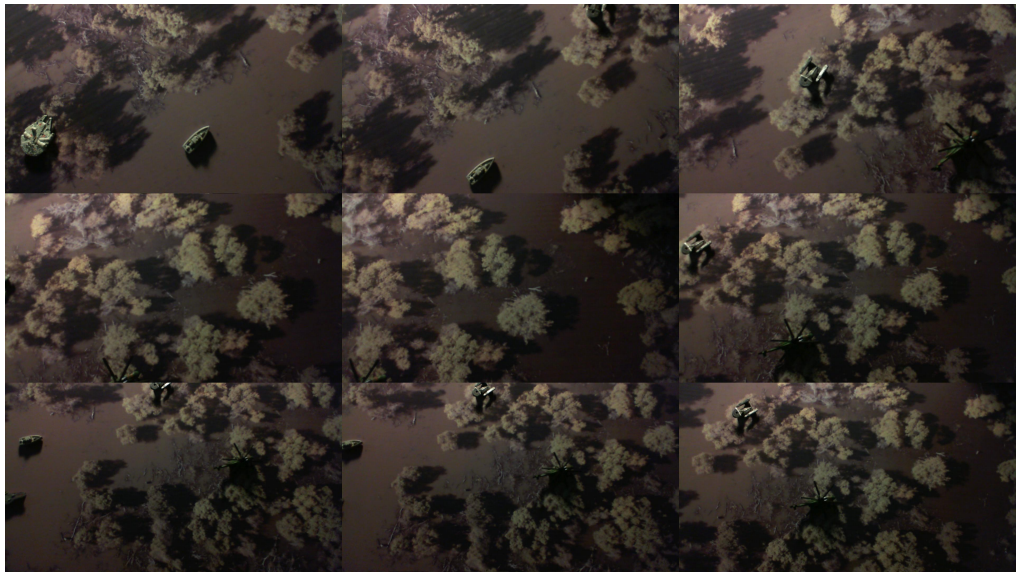
Color Transform Evaluation

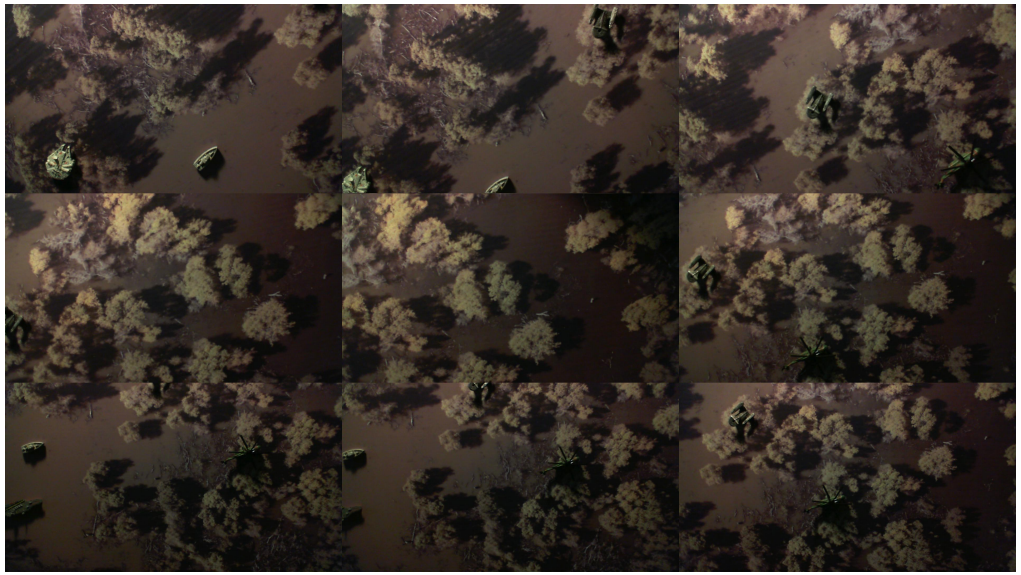


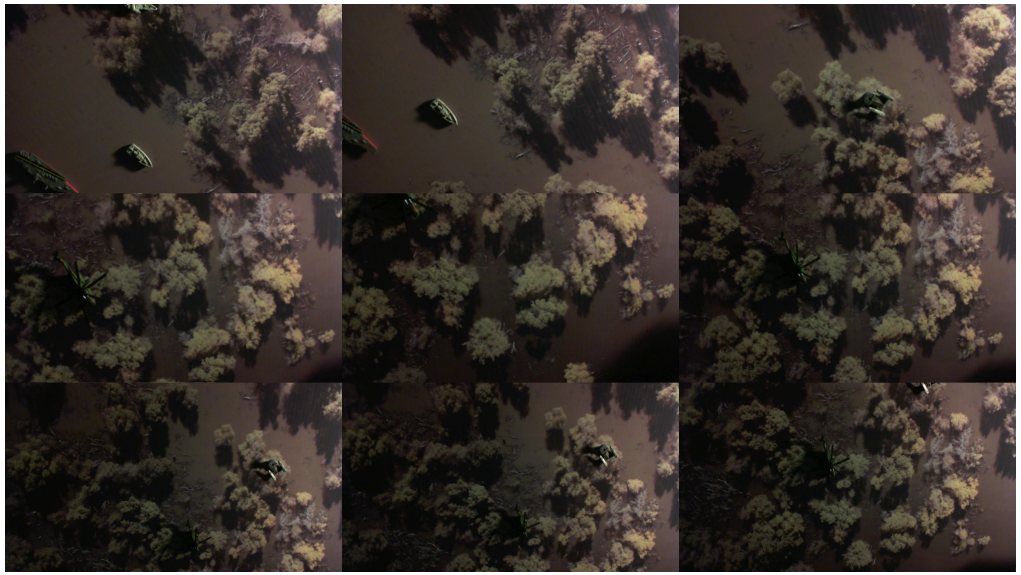


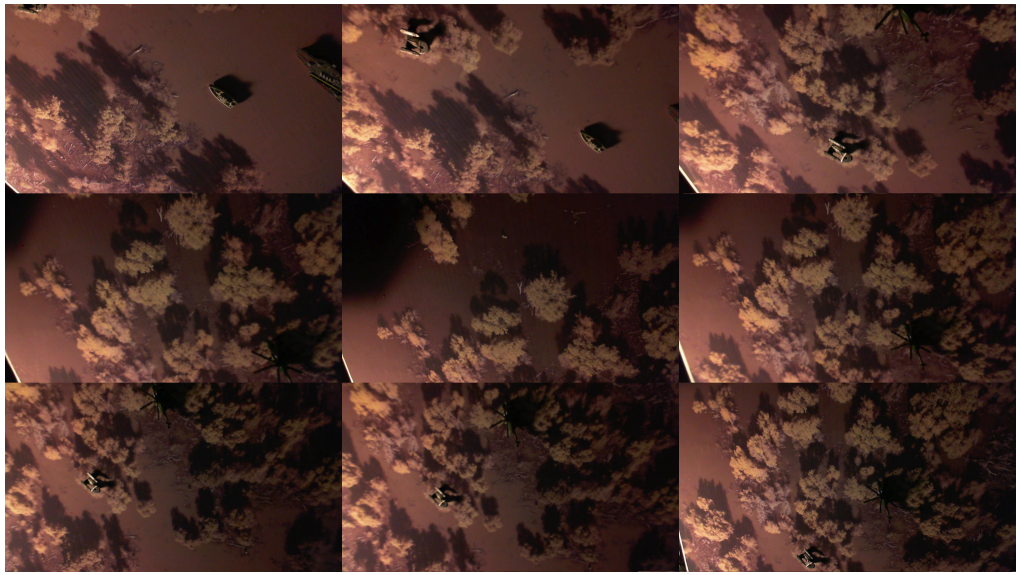






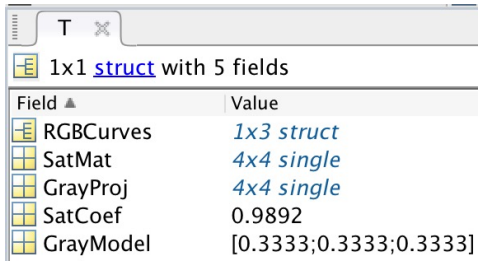






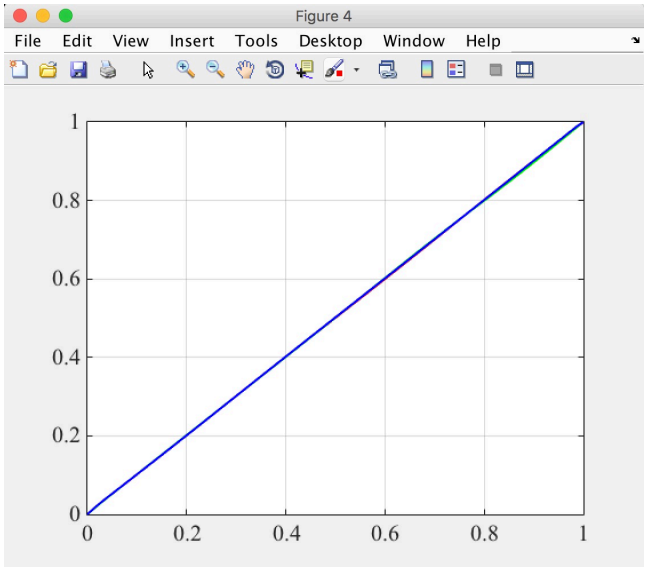
Process

- Two independent steps:
- Pictures for learning the color difference $\xrightarrow{match\ \&\ collect\ color\ data}$ color transfer parameter T e.g.

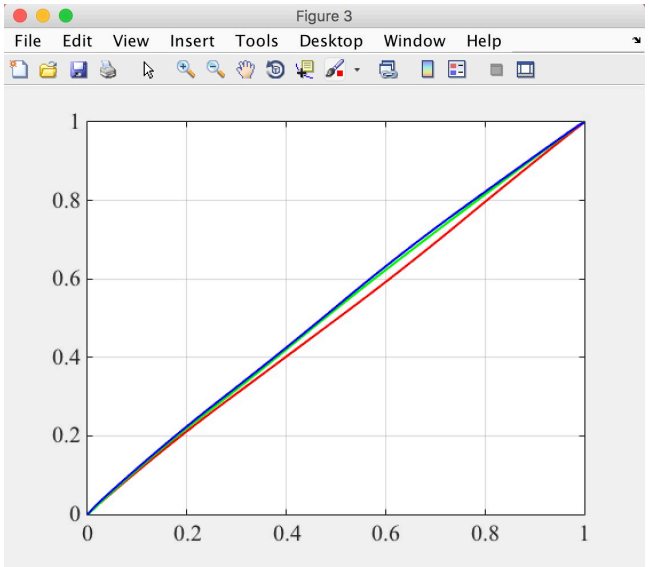


- Original pictures $\xrightarrow{T+color\ transfer\ function}$ Result pictures

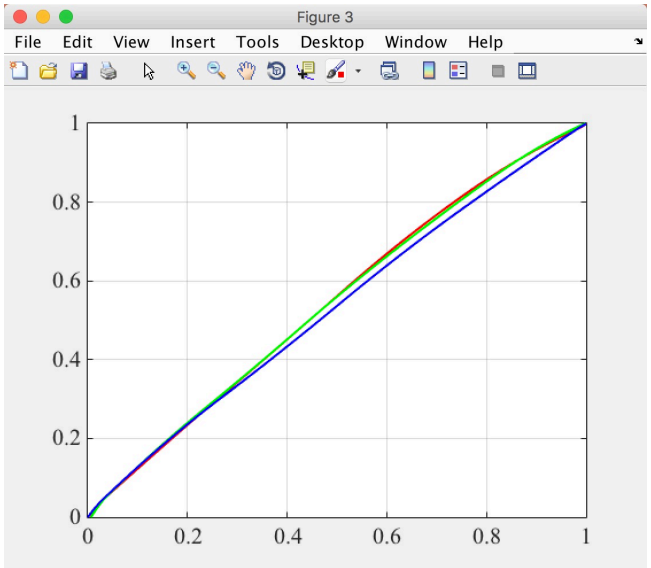
Source: camera0
Reference: camera0



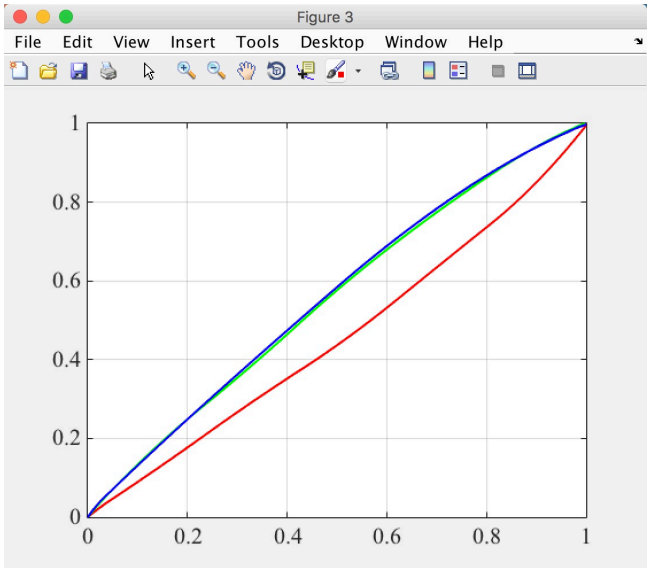
Source: camera1
Reference: camera0

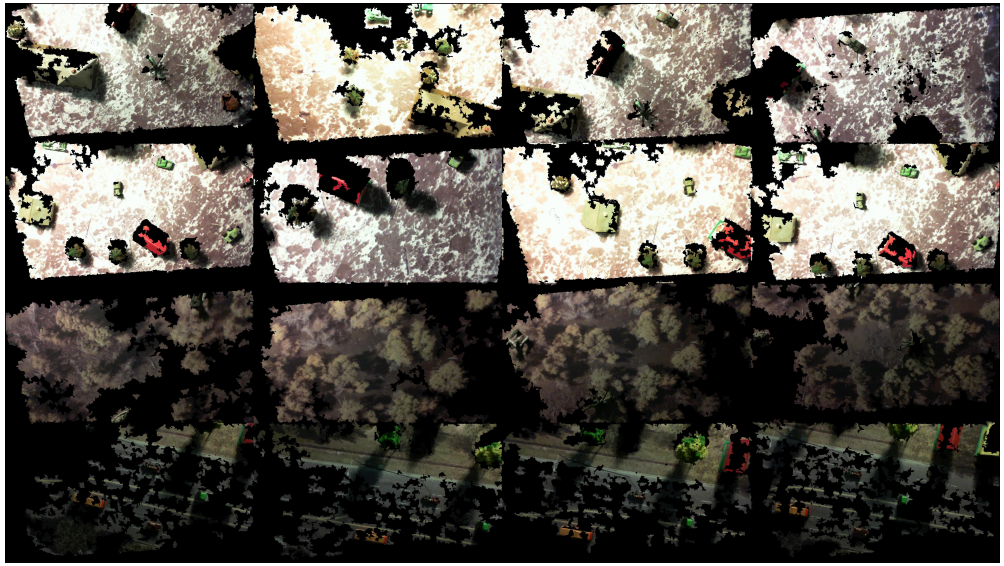


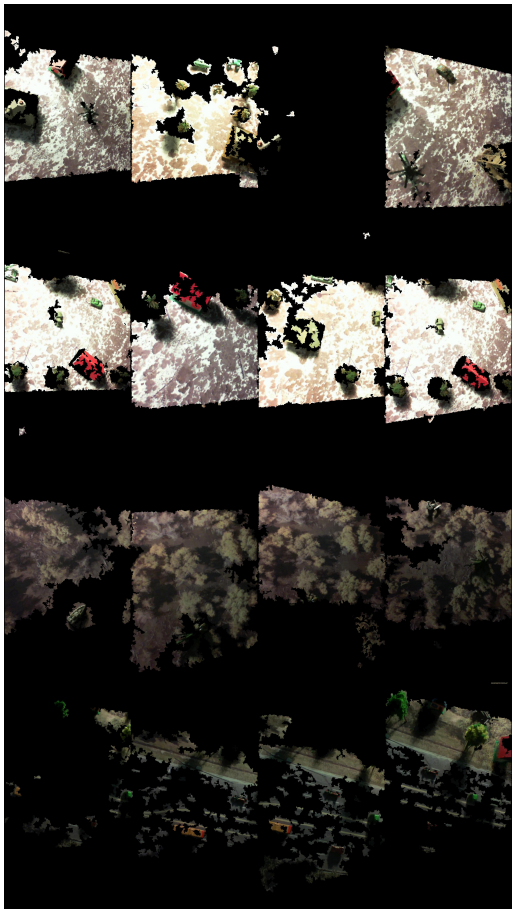
Source: camera2
Reference: camera0

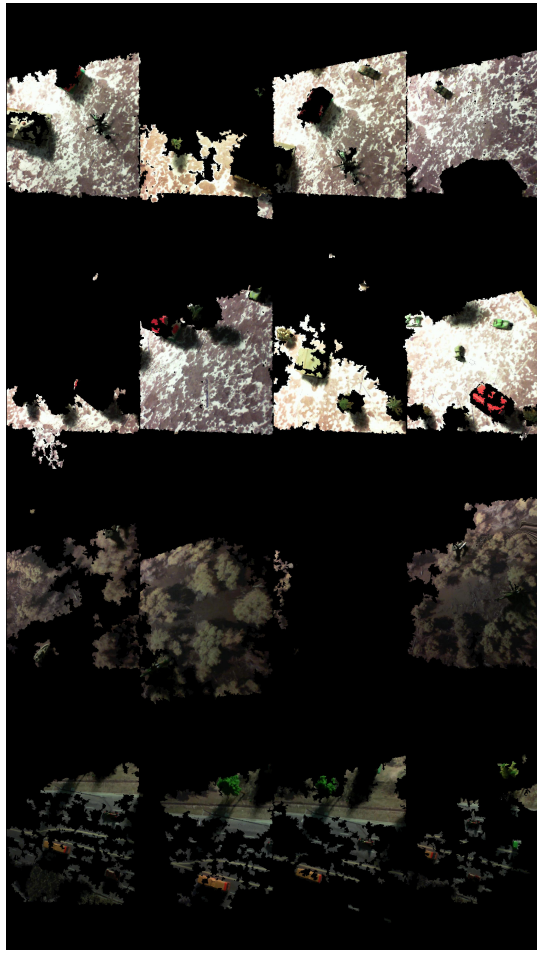


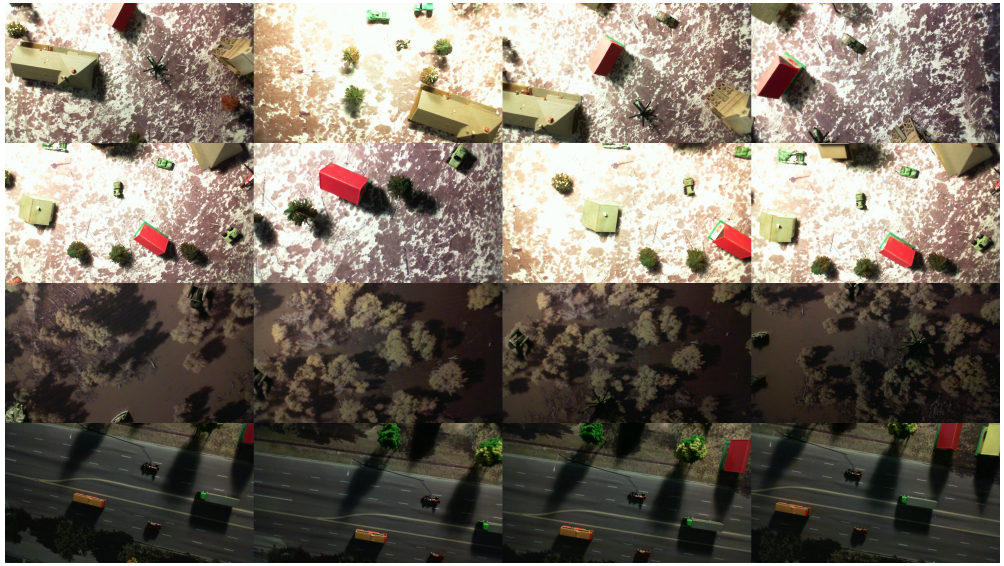
Source: camera3
Reference: camera0

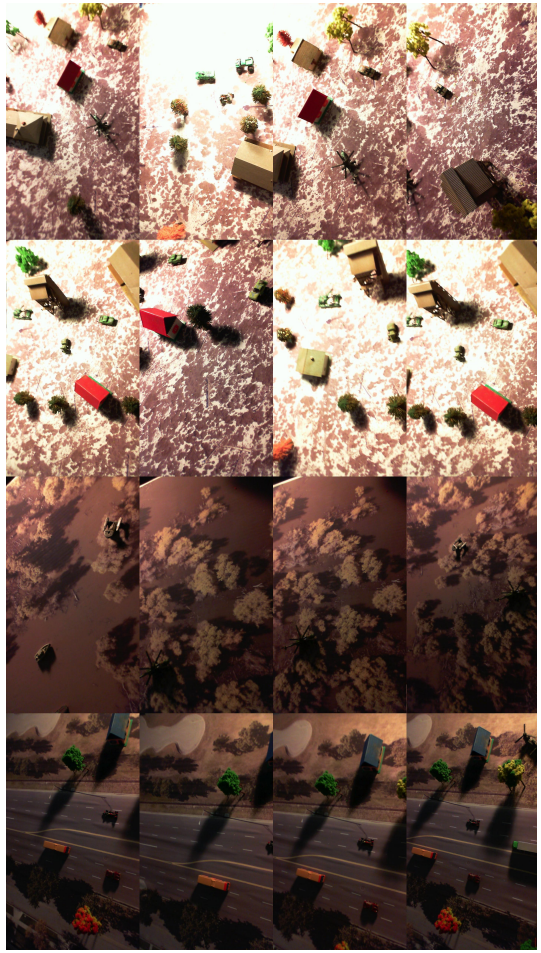


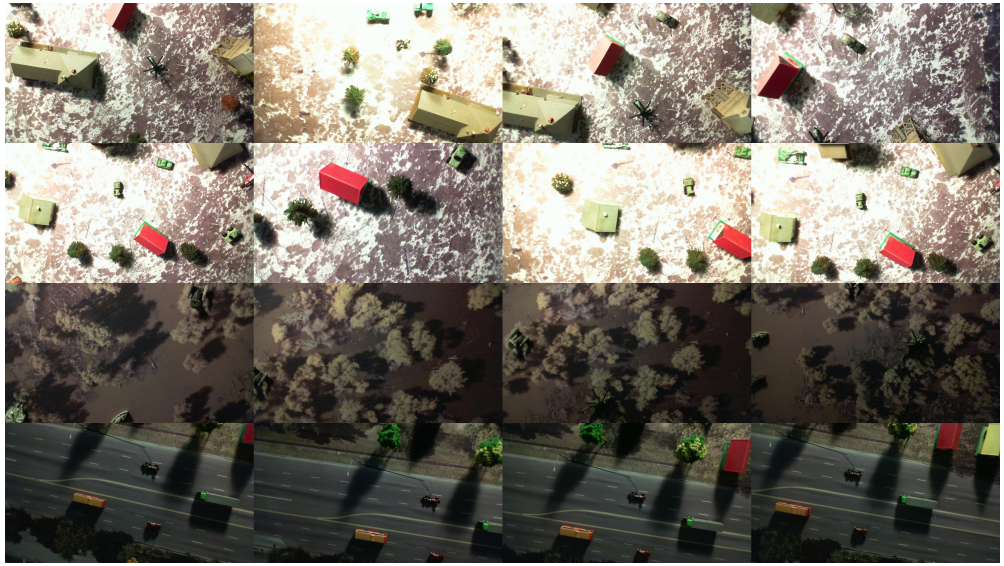


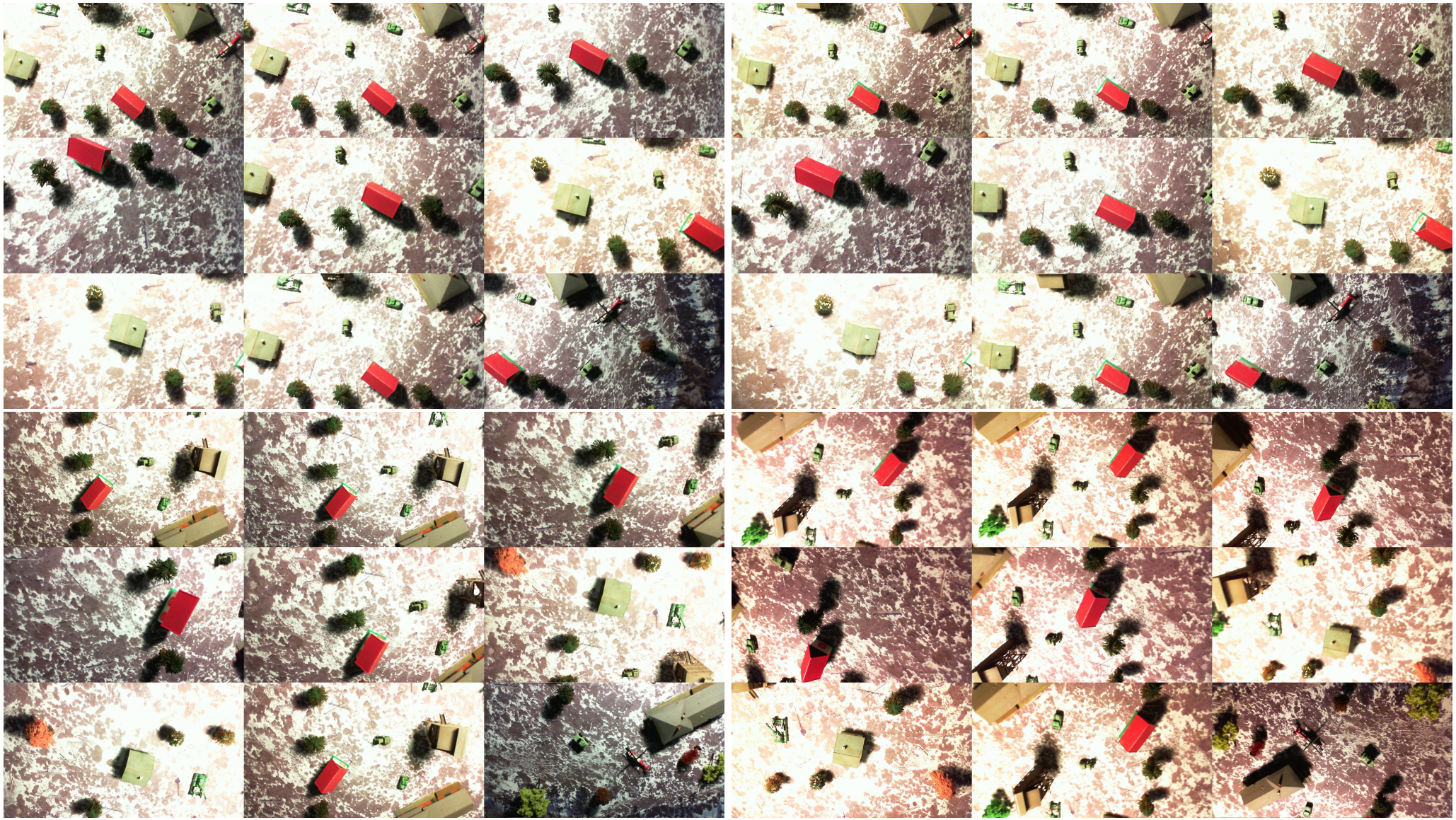


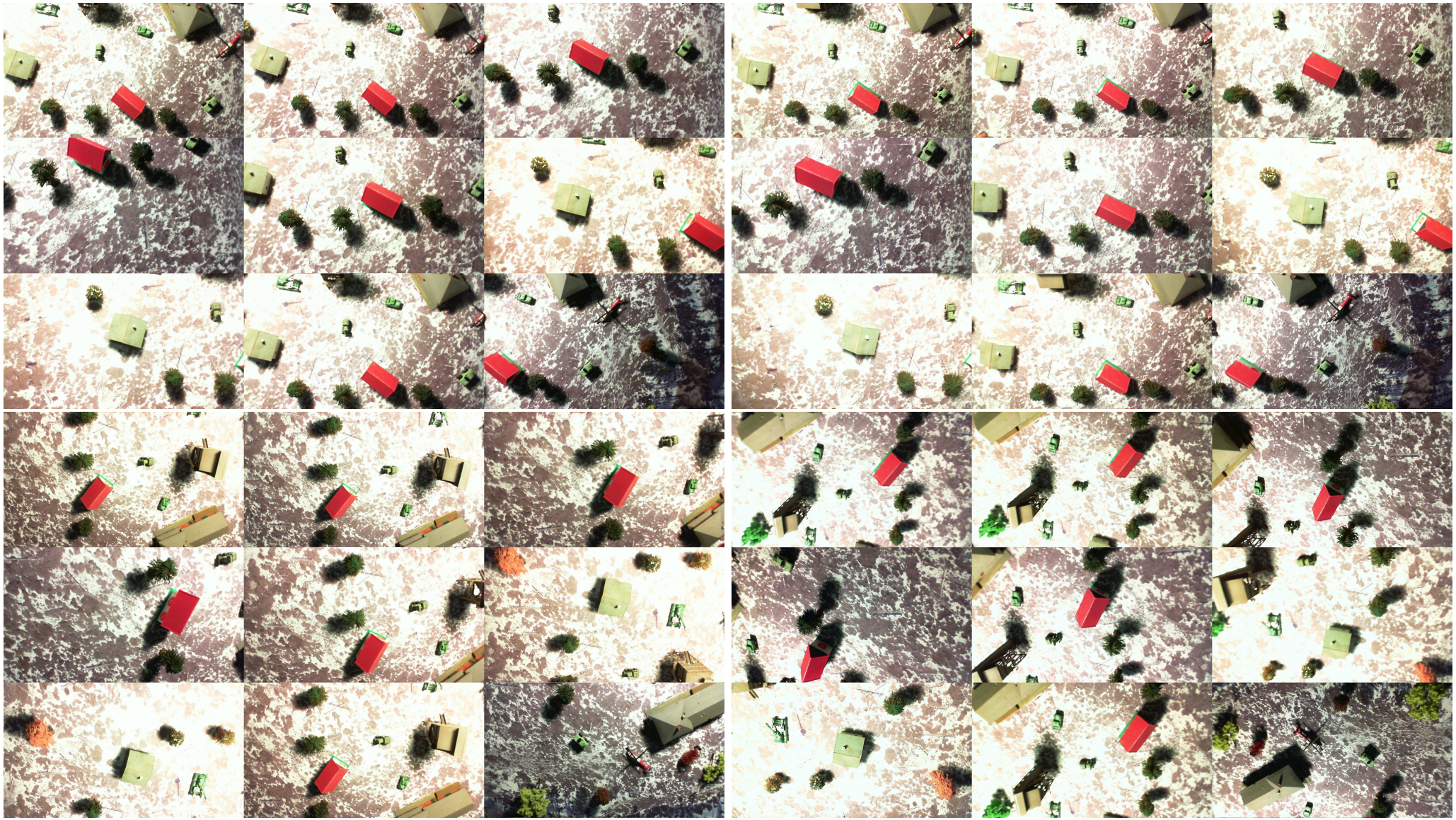


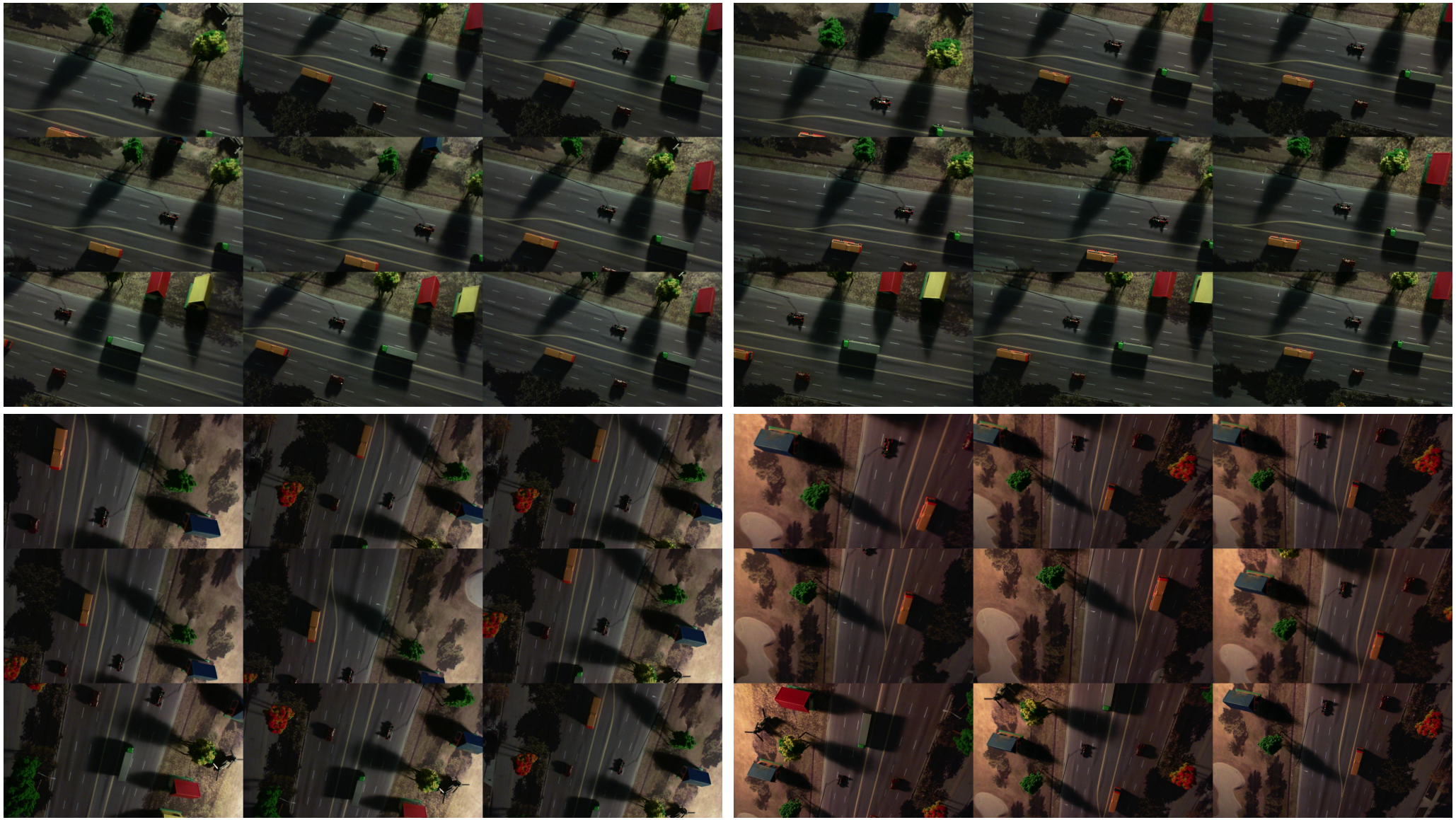


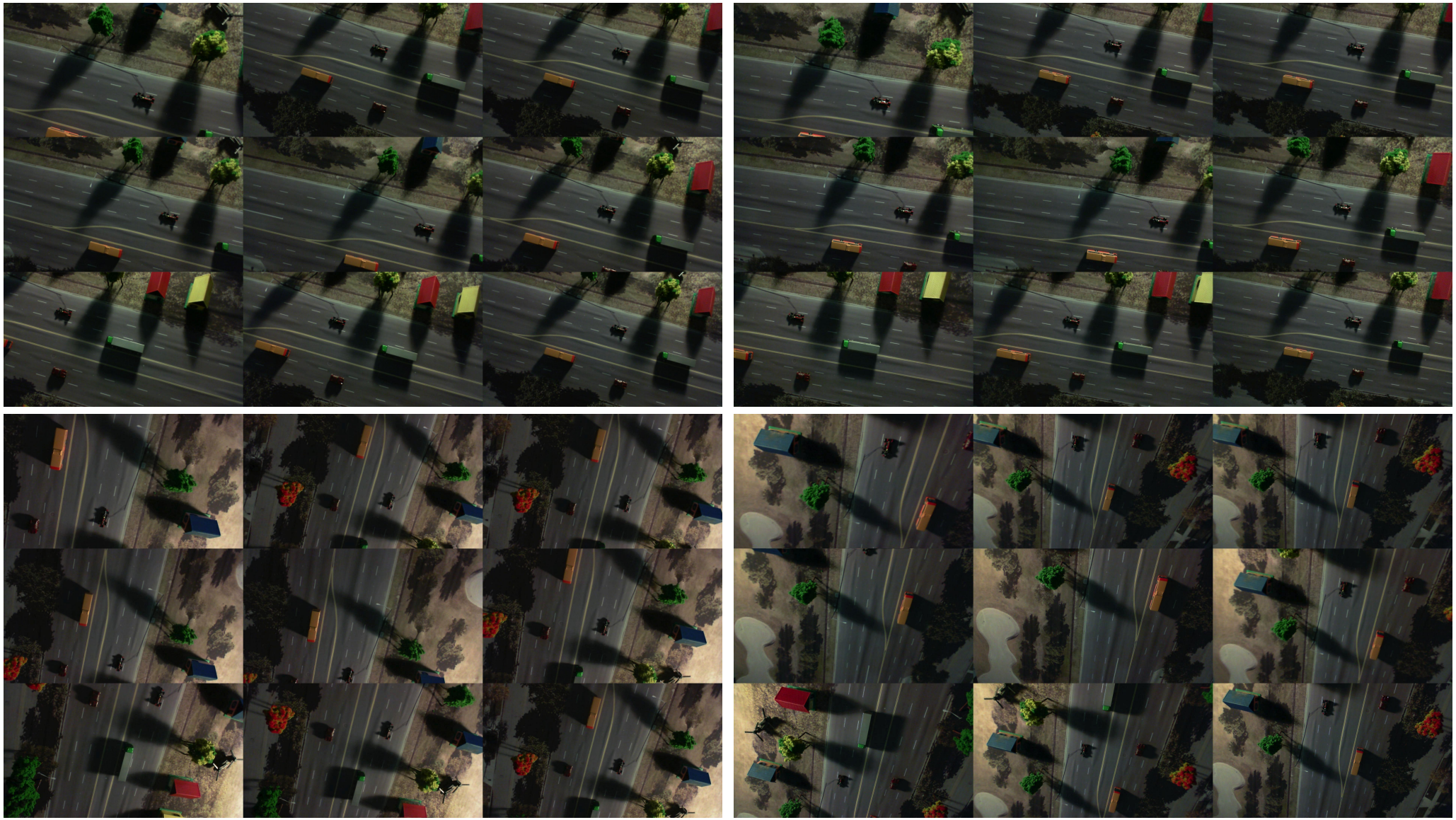


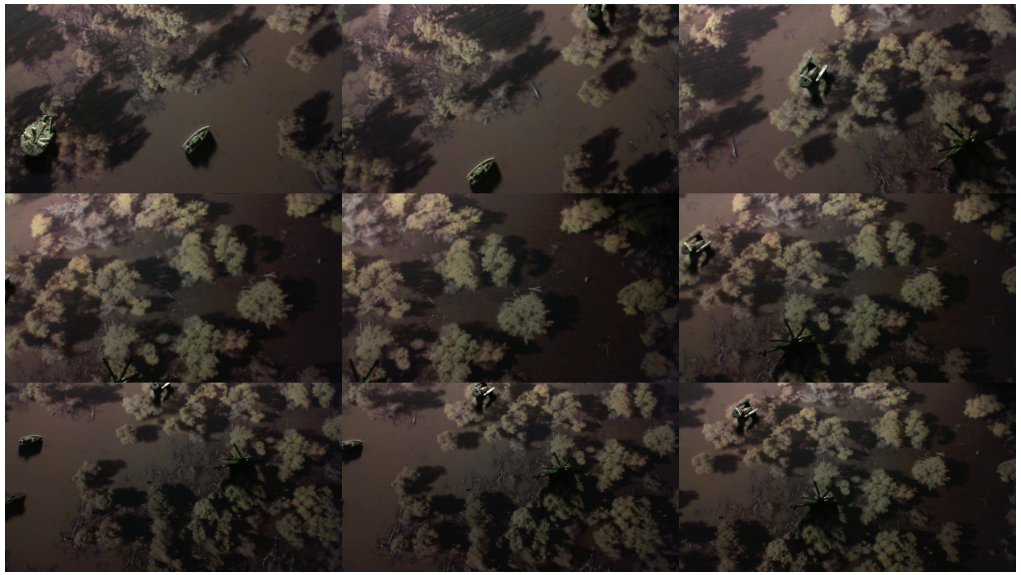


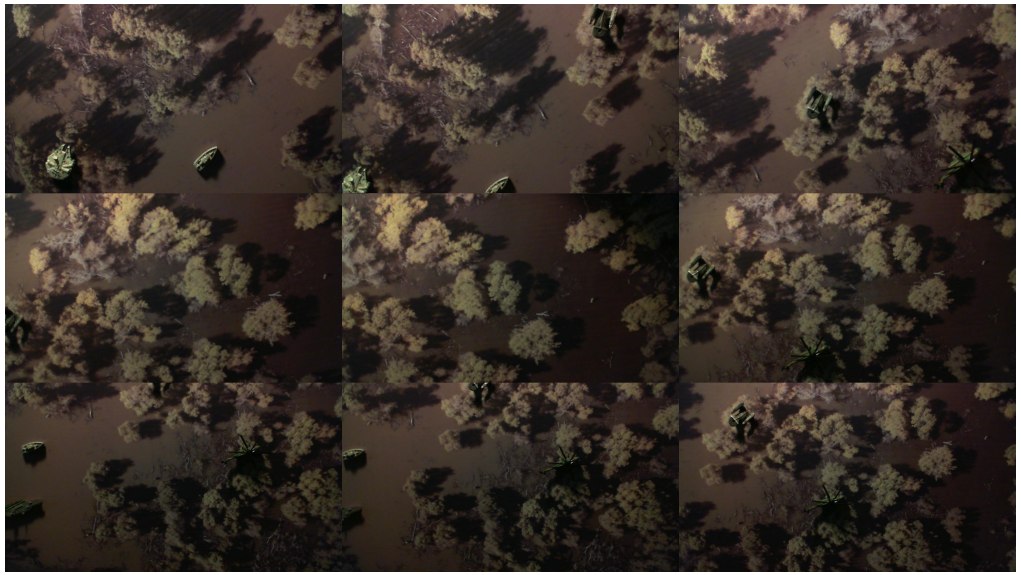


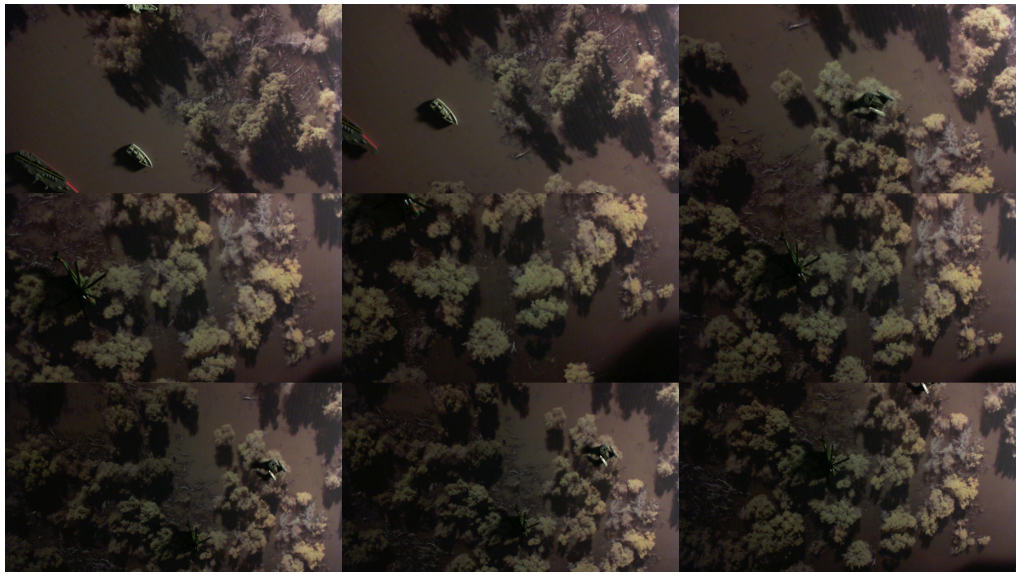


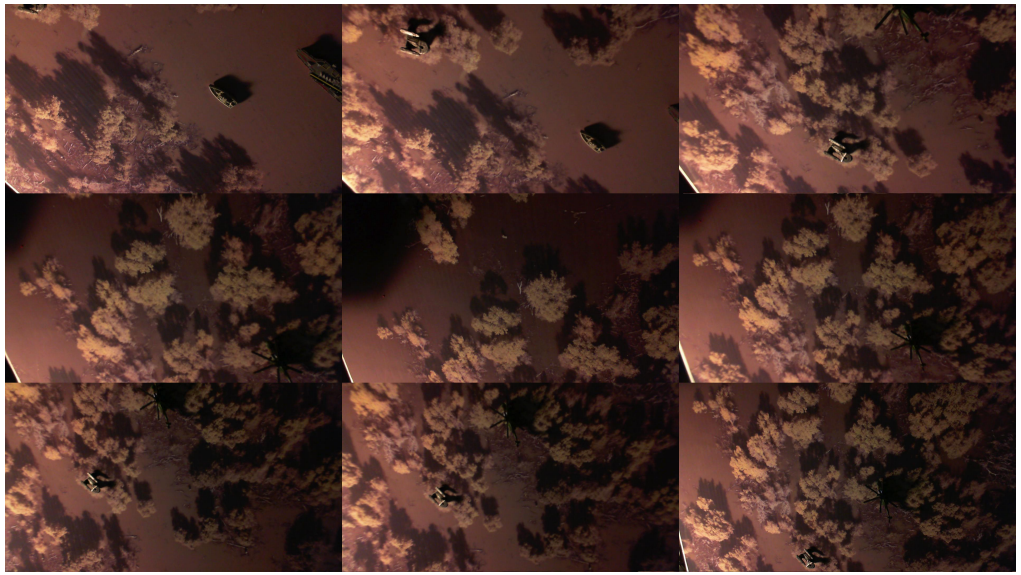


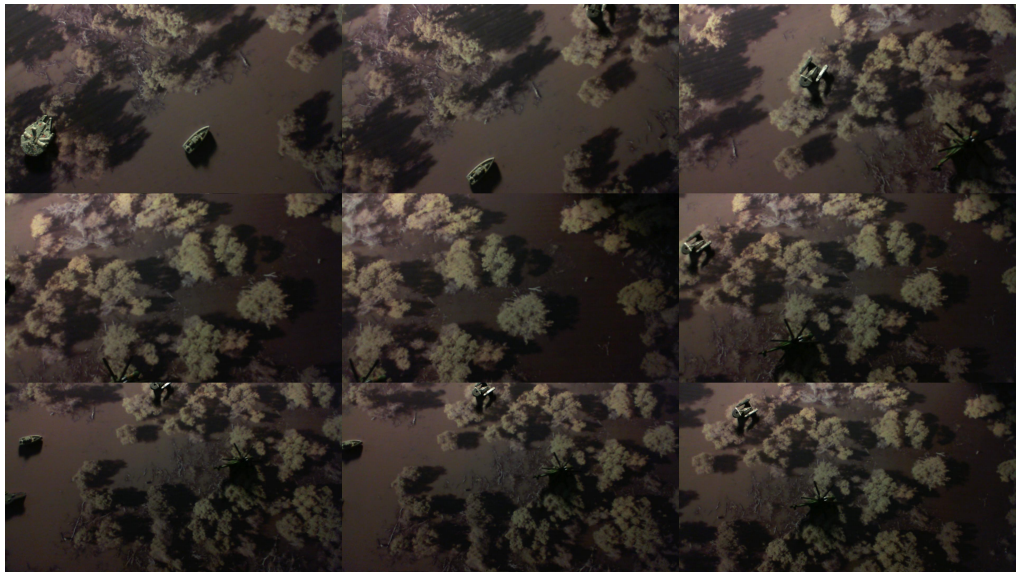


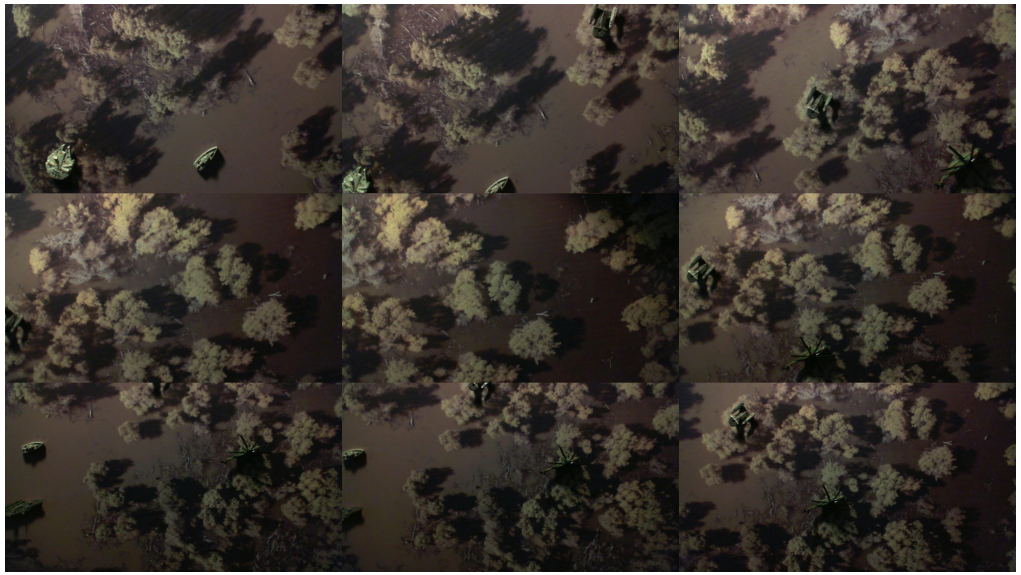


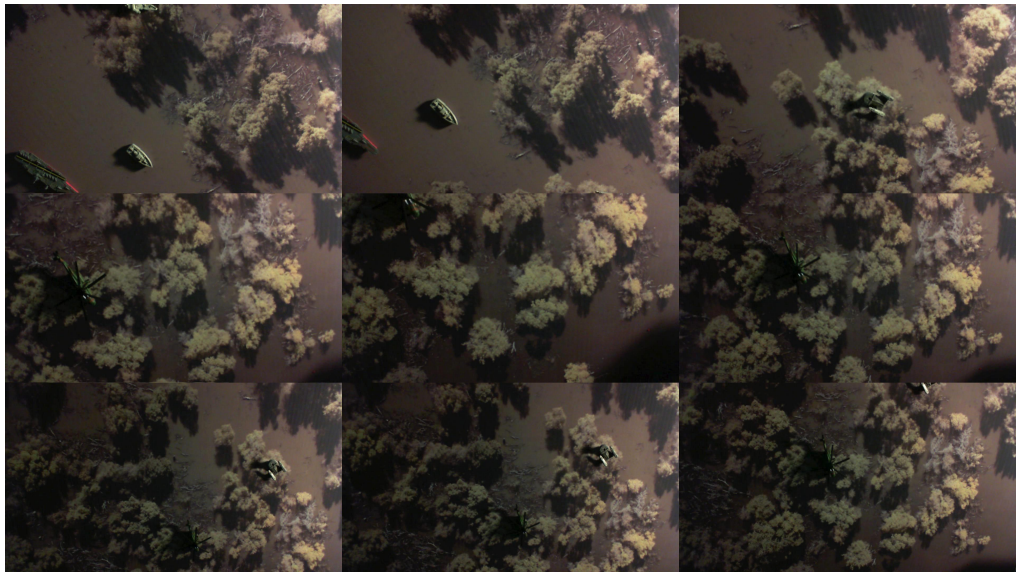


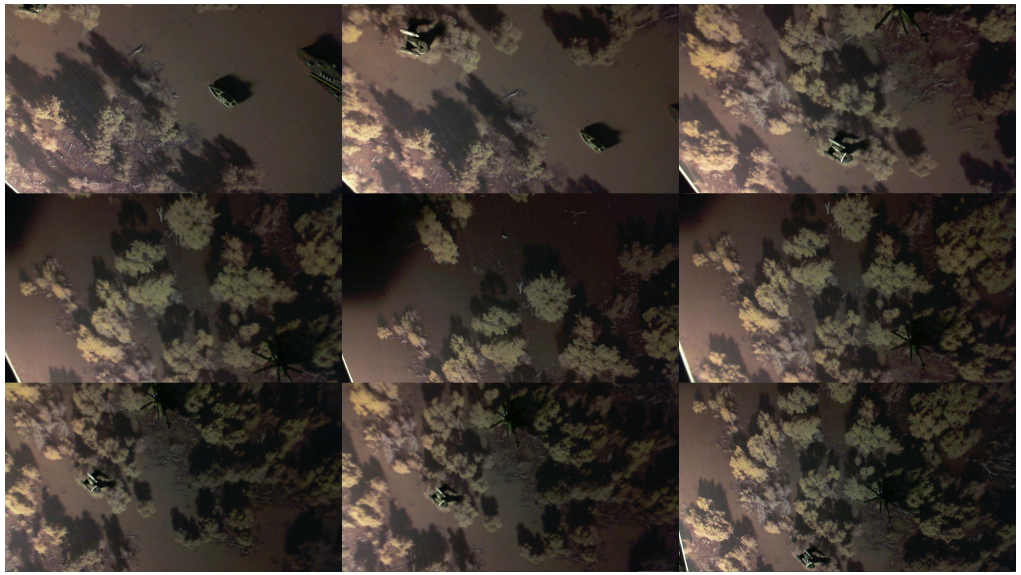




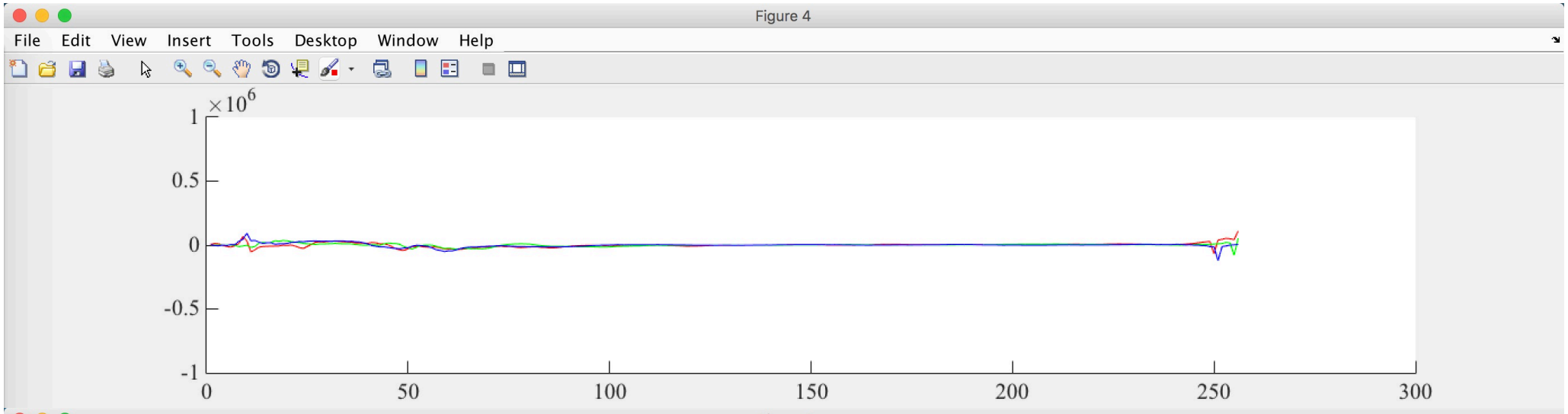


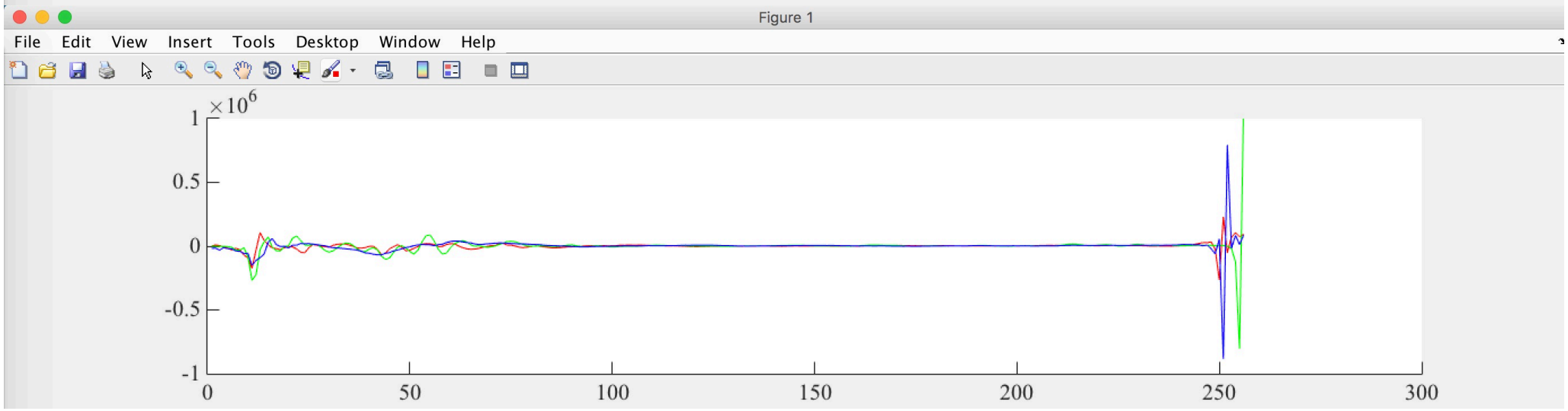




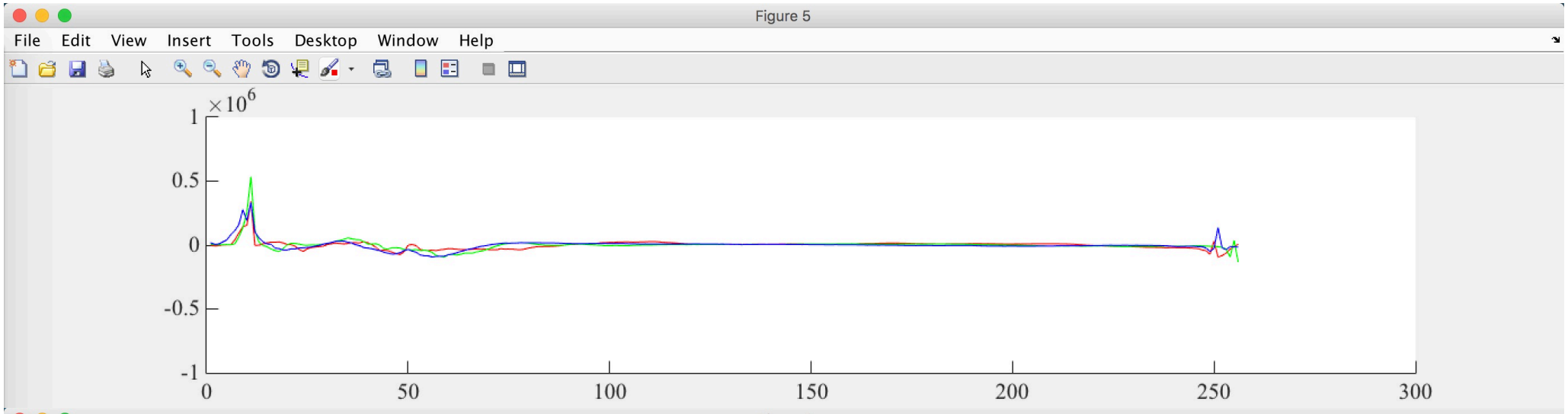


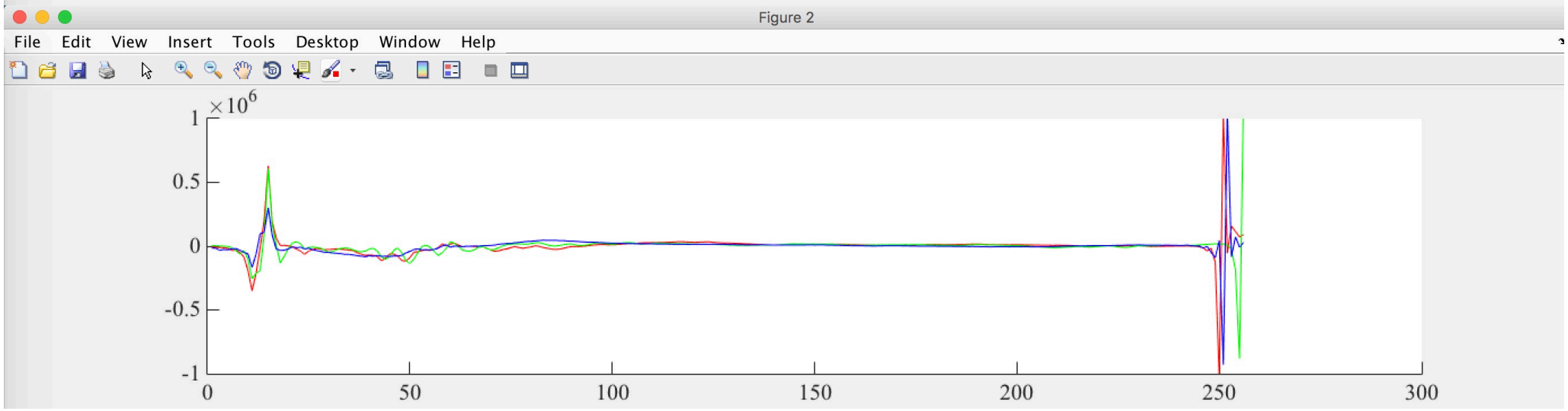
RGB difference between source/result and reference



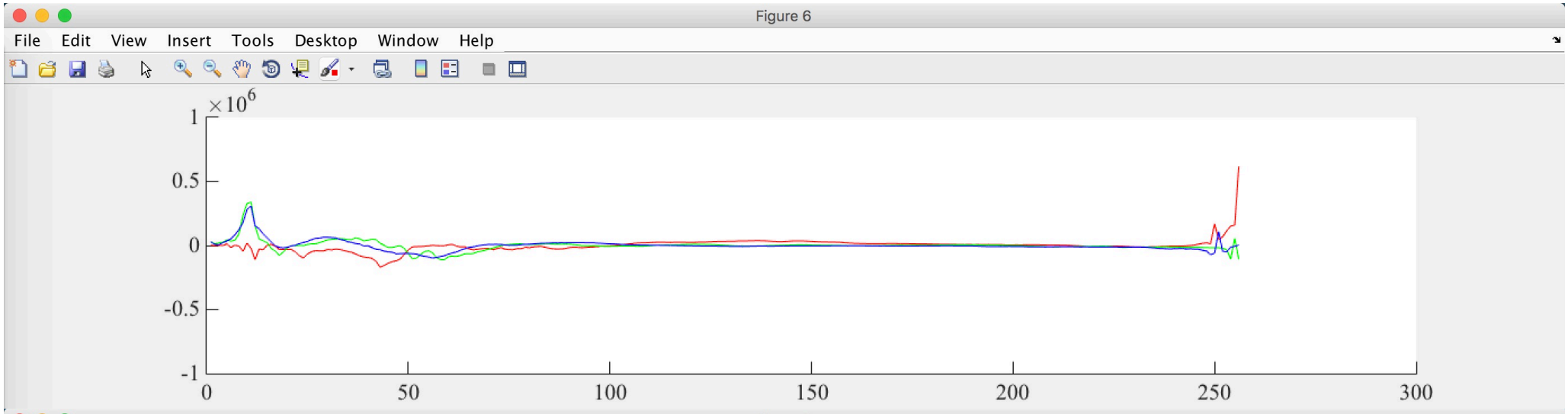


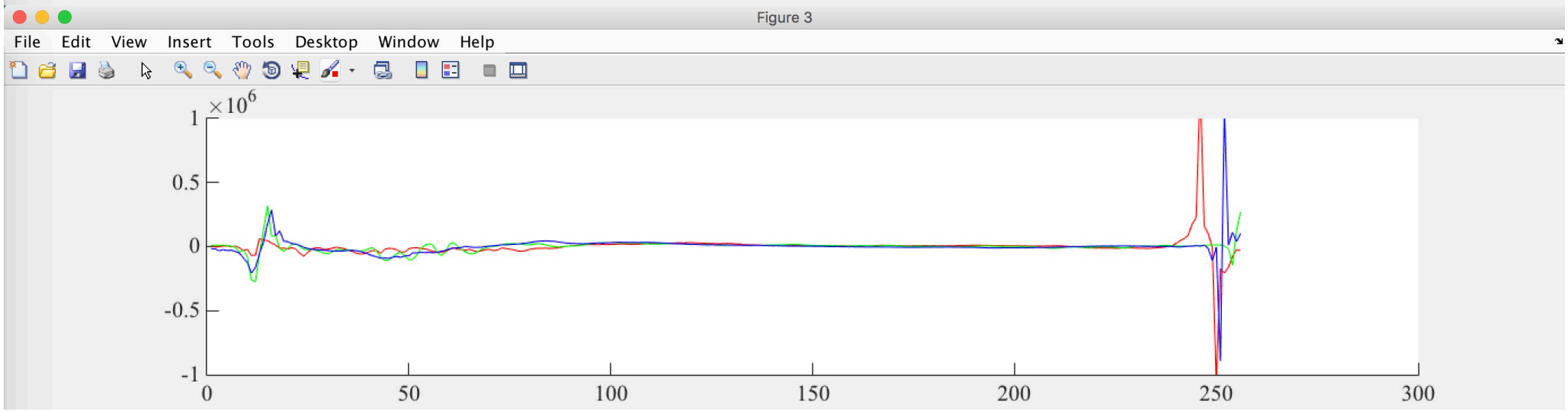
RGB difference between source/result and reference





RGB difference between source/result and reference





Speed test(transfer a 3*3=9 frames image)

Environment:

MacBook Pro (Retina, 15-inch, Mid 2014)	
Processor	2.2 GHz Intel Core i7
Memory	16 GB 1600 MHz DDR3
Startup Disk	Macintosh HD
Graphics	Intel Iris Pro 1536 MB

- Average run time (including reading & writing files): 1.26s
- Average run time (not including reading and writing files): 0.646s