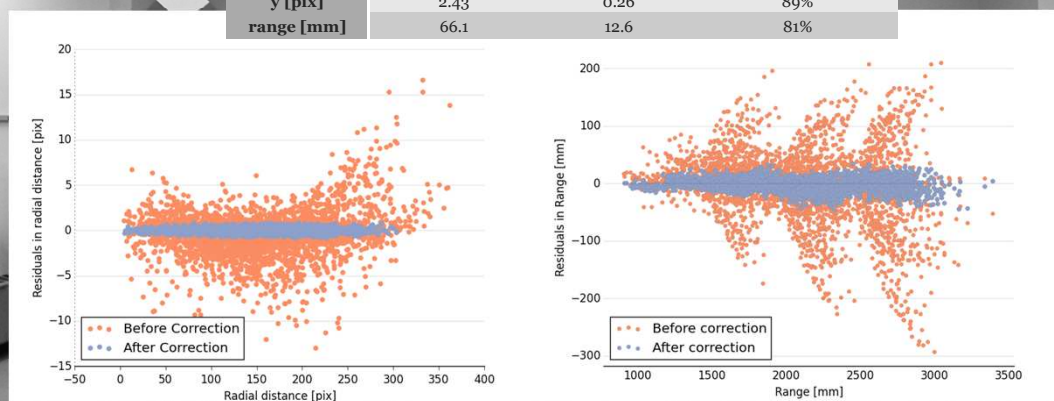


Self-Calibration for Systematic Errors

Residuals	Before Calibration	After Calibration	Percent Improvement
x [pix]	1.98	0.26	87%
y [pix]	2.43	0.26	89%
range [mm]	66.1	12.6	81%

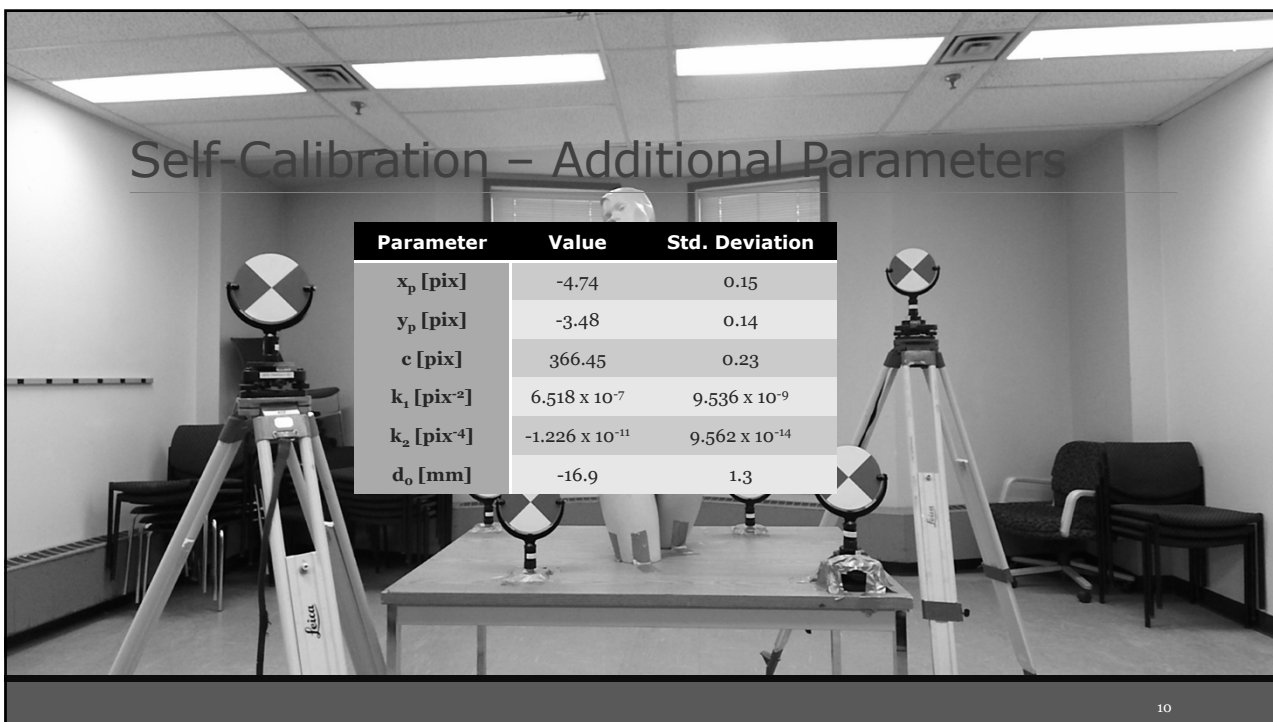
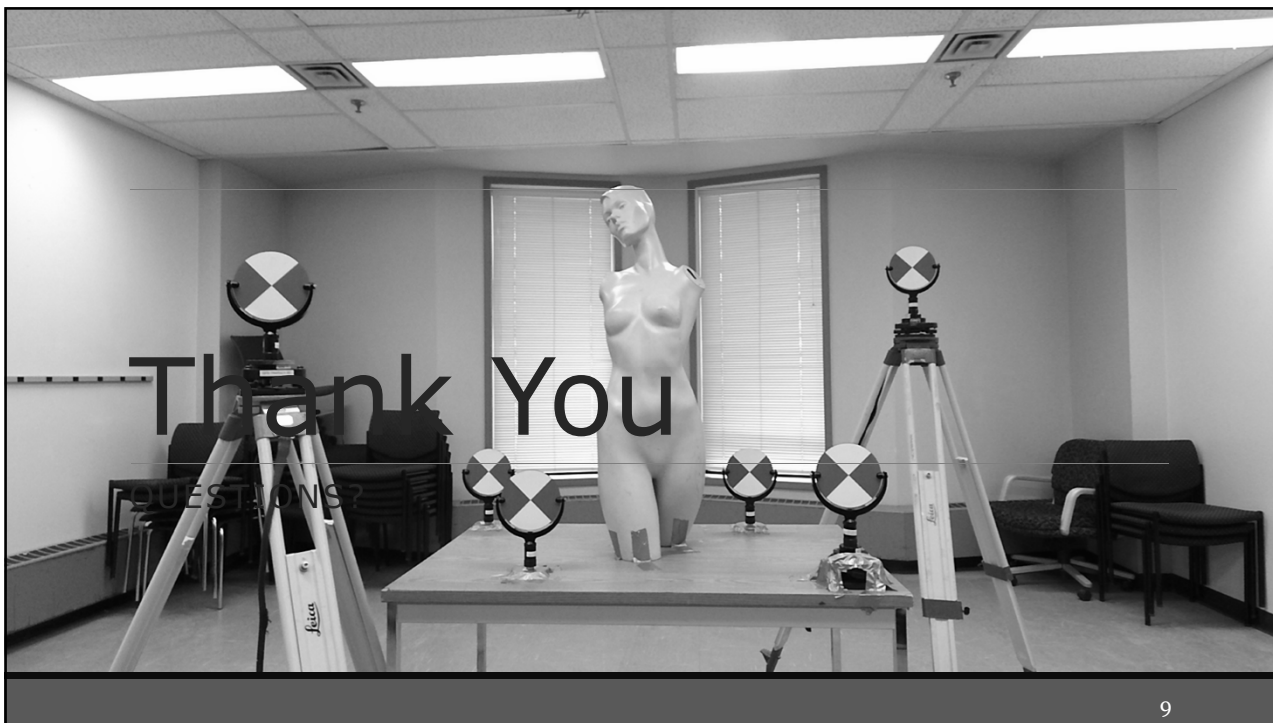


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Conclusions

- Sensor has negligible warm-up time compared to other ToF cameras on market
- Precise motion capture with the Kinect 2 is possible, with some considerations
 - Ideal range at 1.0 m – 2.5 m
 - Highly reflective targets are desirable
 - See full paper for more details
- Calibration for interior systematic effects can produce significant (> 81%) improvement to residuals

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Vignette Effect

