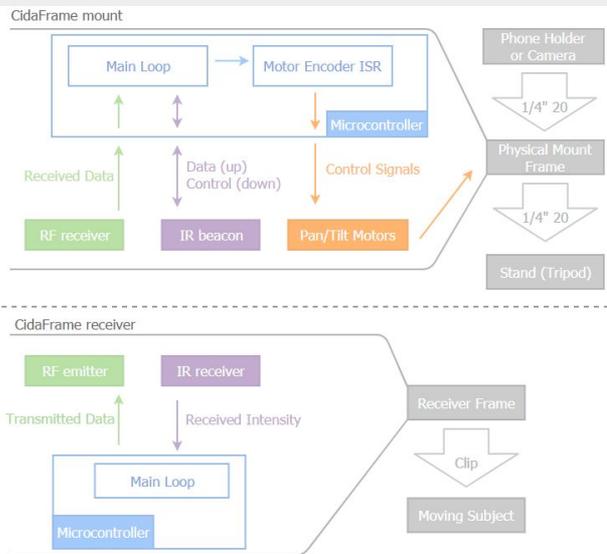


Introduction

CidaFrame is a cost-effective wireless tracking device mount suitable for smartphones and small cameras. Using an IR beacon to identify a user-worn tracker, which uses RF to send return signals, users can keep themselves in frame without a camera person.

- Put phone on record, place on mount
- Hold/wear tracker, turn on mount
- Mount will follow you as you move!

System Overview



Details

- Capable of full 360 degrees of rotation
- Maximum tracker range is currently around 3 meters - limited by IR beacon range
- Arduino used in mount base
- RF communications from tracker to base

Market

- Amateur vloggers can experiment with using this technology for cheap
- With a streaming camera, monitoring an animal at home (place tracker on collar)

Future Work

- Should replace RF communication with Bluetooth
- Need to acquire better actuators for beacon
- For prototype, could leverage smartphone processing ability to do computer vision tracking (with Bluetooth)
- Remote trigger for taking pictures with smartphone

Conclusion

With the widespread popularity of sharing video and media, an inexpensive tracking mount can be used by any solo amateur videographer or photographer. With a modular design and ease of use, CidaFrame is a convenient device for anyone interested in creating video or photos with their phone.

