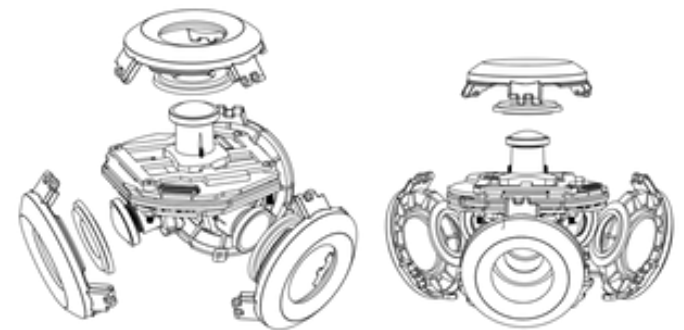
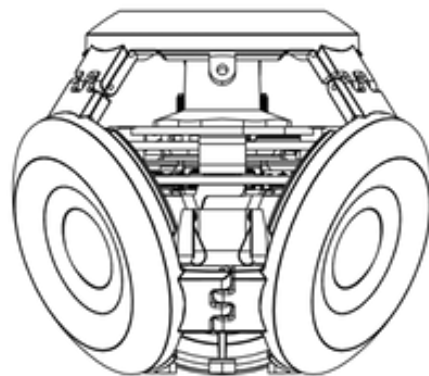


# connecting to the picture



# Bublcam: 360° Camera Technology for Everyone



The bublcam is a 360° camera and software technology that shares everything around you through spherical photos and videos.

Created by

Bubl  
Technology  
Inc.



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**808 backers** pledged  
\$346,122 CAD to help bring this  
project to life.

# OPTICS

Aperture:	f/2.0	Minimum Focus Distance:	25cm
Field of View:	4 lenses x 190° FOV (160° used)	Sensor:	5MP x 4
Focal Length:	1.2mm		

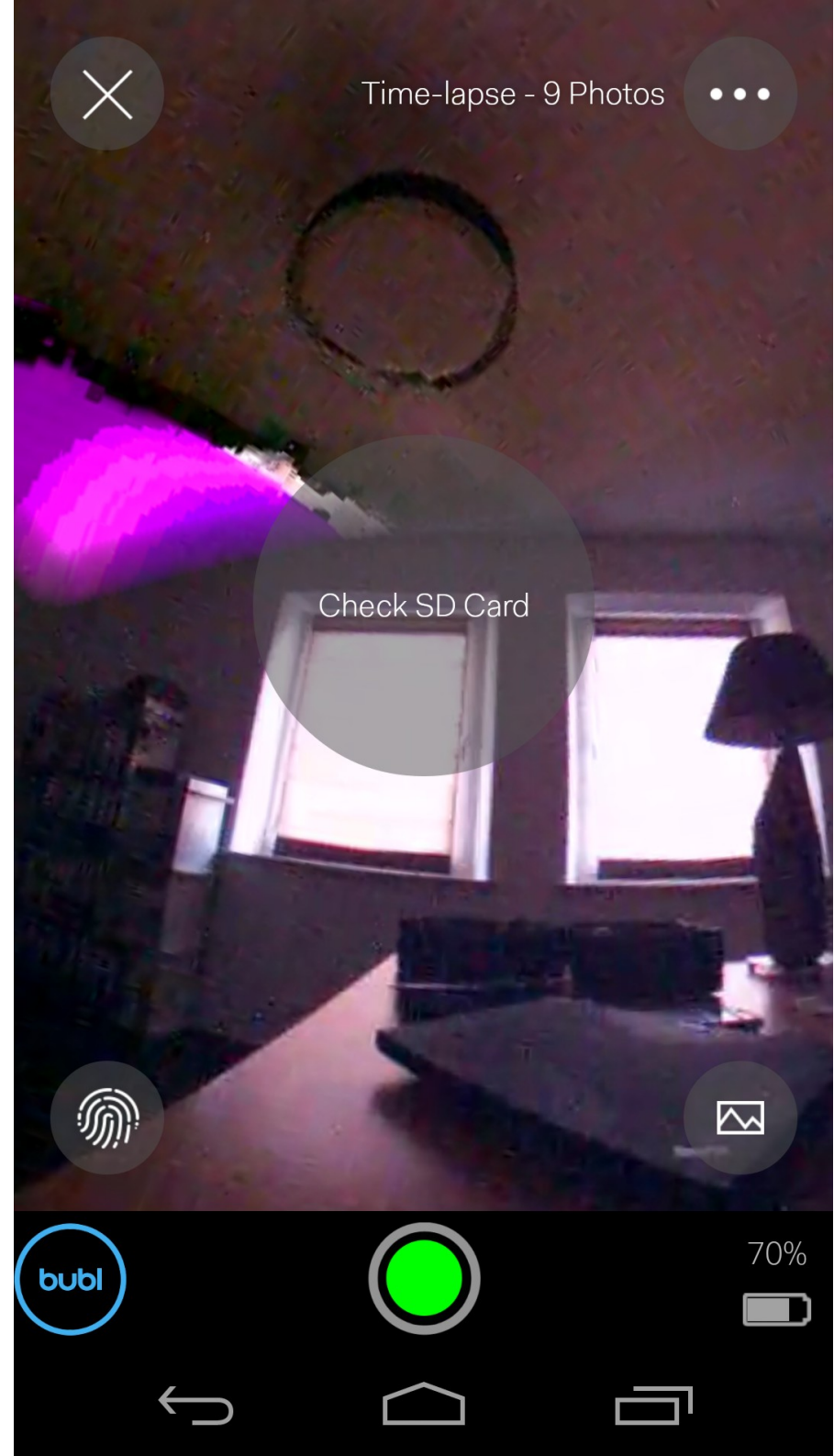
# VIDEO MODE

Video File Format:	Saved as .MP4, H.264	Video File Resolution:	
Microphone:	OmniPUI mic -45dB+-3	Multiplex*	
		30 fps:	1440p x 1440p
Audio Format:	MP3	15 fps:	1920p x 1920p
		Equirectangular**	
		30 fps:	1984 x 992p
		15 fps:	2688p x 1344p

# IMAGE MODE

Photo File Format:	Saved as .JPG	Image File Resolution:	Multiplex* 3840p x 3840p
Approx. Image Resolution:	14MP		Equirect** 5376p x 2688p

What's the problem?



# Let's take a look at the Wi-Fi

```
▶ Frame 56: 243 bytes on wire (1944 bits), 243 bytes captured (1944 bits)
▶ Ethernet II, Src: TexasIns_3b:2a:c0 (88:33:14:3b:2a:c0), Dst: IPv4mcast_fb (01:00:5e:00:00:fb)
▶ Internet Protocol Version 4, Src: 192.168.0.100 (192.168.0.100), Dst: 224.0.0.251 (224.0.0.251)
▶ User Datagram Protocol, Src Port: 5353 (5353), Dst Port: 5353 (5353)
▼ Domain Name System (response)
  Transaction ID: 0x0000
  ▶ Flags: 0x8400 Standard query response, No error
    Questions: 0
    Answer RRs: 5
    Authority RRs: 0
    Additional RRs: 0
  ▼ Answers
    ▶ _bubl_node._tcp.local: type PTR, class IN, Bublcam3[REDACTED]0._bubl_node._tcp.local
    ▶ Bublcam3[REDACTED]0._bubl_node._tcp.local: type TXT, class IN, cache flush
    ▶ Bublcam3[REDACTED]0._bubl_node._tcp.local: type SRV, class IN, cache flush, priority 0, weight 0, port 3000, target Bublcam3[REDACTED]0.local
    ▶ Bublcam3[REDACTED]0.local: type AAAA, class IN, cache flush, addr fe80::8a33:14ff:fe3b:2ac0
    ▶ Bublcam3[REDACTED]0.local: type A, class IN, cache flush, addr 192.168.0.100
```

kern.info kernel: [ 1.820000] NET: Registered protocol family 10

kern.info kernel: [ 1.830000] IPv6 over IPv4 tunneling driver

# Inside the bublcam

- BusyBox v1.22.1 (2015-06-03 18:22:54 UTC)
- ARM926EJ-S revision 5 (ARMv5TEJ)
- DM365 (Digital Media System-on-Chip) of the DaVinci series from Texas Instruments
- Open Ports: 80, 5353, 3000, 56700

t  
a  
k  
e  
  
a  
  
p  
h  
o  
t  
o

```
16:45:44 executing /opt/bubl/scripts/image_capture.sh
16:45:44 RED FLASH COMMAND RECEIVED
16:45:44 LED CHANGE: STARTCAPTURE
16:45:44 image capture script says: RED_FLASH
16:45:45 LED CHANGE: CAPTURE
16:45:46 image capture script says: Initializing...
16:45:46 Creating multiplex buffer...
16:45:46 Creating capture...
16:45:46 Signalling camera 0...
16:45:46 LED CHANGE: SAVING
16:45:46 image capture script says: SAVING
16:45:46 image capture script says: Signalling camera 1...
16:45:47 image capture script says: Signalling camera 2...
16:45:47 image capture script says: Signalling camera 3...
16:45:47 image capture script says: Cleaning up...
16:45:47 image capture script says: Saving image...
16:45:47 Initializing encoder...
16:45:47 image capture script says: Encoding image...
16:45:48 image capture script says: Saving thumbnail...
16:45:48 image capture script says: Initializing encoder...
16:45:48 image capture script says: Encoding image...
16:45:48 image capture script says: Done!
16:45:48 image capture script says: BUBL_FILE /mnt/media/dcim/100bubl0048.jpg
16:45:48 capture script exit
16:45:48 exit code: 0
16:45:48 initializing ActiveState
16:45:49 LED CHANGE: PHOTOMODE
```







