Emerging Technology

360° CAMERA AT CARLETON UNIVERSITY LIBRARY

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Why 360°?
Comparing real space vs digital versions of the space
How do we fit this into the library?
Initial research brought me to this, the mothership of all cameras.

16 GoPros total cost: approximately $8000 USD
$10,967.60 CAD
Too Expensive!!!
**Commercial 360 Cameras**

### Giroptic
- **Pros:**
  - Live Streaming
  - Multiple Attachments
  - 3 cameras
- **Cons:**
  - Kickstarter *
  - Not commercially available through retailers such as Amazon
- **Price:** $341.22 CAD
- **Rating:** 7/10

### Ricoh Theta S
- **Pros:**
  - Good Rating
  - Available commercially through retailers
  - Easy to create and upload 360 images and video
- **Cons:**
  - Price* (Although it is good compared to others)
- **Price:** $449.99 CAD
- **Rating:** 4.2/5

### Bublcam
- **Pros:**
  - Canadian (Toronto)
  - 4 cameras
- **Cons:**
  - Price
  - Sold out constantly
  - Not commercially available through retailers such as Amazon
- **Price:** $1094.99 CAD
- **Rating:** 5/10

### Kodak
- **Pros:**
  - Kodak is a reputable brand
- **Cons:**
  - Mediocre rating
  - Not true 360
- **Price:** $356.30 CAD
- **Rating:** 3.5/5

### LG 360 Camera
- **Pros:**
  - Value
- **Cons:**
  - No Flash Memory
- **Price:** $279.95 CAD
- **Rating:** 4.1/5

*Images link to camera website*
Street View ready 360° Cameras

**Street View Mobile Ready:** 360 cameras that can publish Street View directly from a mobile app.

**Street View Auto Ready:** 360 cameras tailored for vehicle-based collection with the highest accuracy.

**Street View VR ready:** 360 cameras or systems that collect geometry in addition to generating sets of connected 360 photos.

**Street View Workflow Ready:** Publishing tools (sometimes bundled with cameras) that can upload to Street View accounts.

Image Source: https://www.theverge.com/2017/5/10/15604914/google-street-view-360-degree-cameras-gopro-samsung
Google Cardboard Viewers

Google Cardboard Viewers can be found online through retailers such as Amazon for as little as $7 to $10 but can range up to $100+

The headsets are designed to fit different sized phones. Make sure to select a viewer that fits the size of your phones.

Here are some resources for Google Cardboard Viewers:

Get your Cardboard (most listed in USD)

https://vr.google.com/cardboard/get-cardboard/

Viewers can also be found on Amazon.ca by searching “Google Cardboard Viewers”
Image Sources

Discovery Centre /Library images:
https://library.carleton.ca/sites/default/files/service_points/discovery_landscape.jpg
http://ottawa.ca/include/doors/Discovery%20Centre,%20MacOdrum%20Library.jpg

Mother ship of all cameras slide image sources

Google 360 Camera Photos: https://petapixel.com/2015/05/28/the-google-jump-360-camera-rig-uses-16-gopros/

360 camera slide image sources

Giroptic: https://photos.prnewswire.com/prnvar/20160609/377660?max=1600
Kodak: https://www.bhphotovideo.com/images/images2500x2500/kodak_sp360_yl_sp360_action_camera_16mp_cmos_1086567.jpg