

LivePics-24: A Multi-person Multi-camera Multi-settings Live Photos Dataset

By O. Kulkarni, A. Mishra, S. Arora, V. K. Singh, and P. K. Atrey

For more information about the dataset, visit the project website:

<https://www.cs.albany.edu/~patrey/research/LivePics24/>

This dataset is made publicly available solely for research purposes, with users expected to cite the following paper and other related papers that stem from this work.

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Change Log:
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Version 0.0 released ...

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Dataset Information
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The LivePics24 dataset contains a total of 17,850 files, containing 8,925 key-image files and their corresponding 8,925 live image files captured using the live mode feature on iPhone cameras. The dataset comprises images taken from two different cameras placed at different angles. The images have groups of subjects ranging from 1 to 6, with some images containing people wearing face masks. The main purpose of this dataset is to collect various files using the Live Photos feature to help researchers study, examine, and test their hypotheses and algorithms.

Taxonomy of Dataset Images

Images are organized into folders for easy access. First, they are organized by the camera that took the photos. Then, they are organized into whether the subjects are masked or unmasked. They are then organized based on the number of subjects in the images.

Individual images are named in the following format:

IMG_0001.HEIC

IMG_0001.MOV

Where, the Key representative single frame photo ends in “.HEIC”, while the corresponding video part of the Live photos is stored with “.MOV” extension.

Metadata Spreadsheet

The linked metadata spreadsheet helps navigate the dataset and find desired images. They are designated using ranges, with the names expressing the navigation path to find the images. Note that the ranges in the metadata file are all **inclusive**.

For example:

“C1>N>2S>0001.MOV - C1>N>2S>0034.MOV”

from row 2 of the Camera 1 sheet, indicates that all the images from IMG_0001.MOV to IMG_0034.MOV are images taken by camera 1 (hence, C1), with 2 subjects (hence, 2S) that are unmasked (hence, N).

You can navigate to the desired images by using the pathway indicated in their naming. In our example above, in order to access them, Follow the following directory path:

 C1 →  N →  2S.

The naming conventions follow the following legend:

- C1: Indicates that images were taken using camera 1.
- C2: Indicates that images were taken using camera 2.
- Y: Indicates that the subjects in the image are masked.
- N: Indicates that the subjects in the image are unmasked.
- 1S: Indicates that the image contains 1 subject.
 - M: Indicates that the subject in the photo identified as Male.
 - F: Indicates that the subject in the photo identified as Female.
- 2S: Indicates that the image contains 2 subjects.
- 3S: Indicates that the image contains 3 subjects.
- 4S: Indicates that the image contains 4 subjects.
- 5S: Indicates that the image contains 5 subjects.
- 6S: Indicates that the image contains 6 subjects.

Camera 1 Images

The Camera 1 folder contains 11,112 files, containing corresponding .MOV and .HEIC files. Of these files, 5,168 of these files contain images with masked subjects, while 5,944 files contain images with unmasked subjects.

Masked Images:

- 1 Subject: 2360 total files
 - Male: 618 files
 - Image Ranges:
 - C1>Y>1S>M>8300.MOV - C1>Y>1S>M>8485.MOV
 - C1>Y>1S>M>8300.HEIC - C1>Y>1S>M>8485.HEIC
 - C1>Y>1S>M>9501.MOV - C1>Y>1S>M>9559.MOV
 - C1>Y>1S>M>9501.HEIC - C1>Y>1S>M>9559.HEIC
 - C1>Y>1S>M>9878.MOV - C1>Y>1S>M>9941.MOV
 - C1>Y>1S>M>9878.HEIC - C1>Y>1S>M>9941.HEIC
 - Female: 1742 files
 - Image Ranges:
 - C1>Y>1S>F>5614.MOV - C1>Y>1S>F>5895.MOV
 - C1>Y>1S>F>5614.HEIC - C1>Y>1S>F>5895.HEIC
 - C1>Y>1S>F>6743.MOV - C1>Y>1S>F>7130.MOV
 - C1>Y>1S>F>6743.HEIC - C1>Y>1S>F>7130.HEIC
 - C1>Y>1S>F>7897.MOV - C1>Y>1S>F>8099.MOV
 - C1>Y>1S>F>7897.HEIC - C1>Y>1S>F>8099.HEIC
- 2 Subjects: 356 files
 - Image Ranges:
 - C1>Y>2S>0035.MOV - C1>Y>2S>0115.MOV
 - C1>Y>2S>0035.HEIC - C1>Y>2S>0115.HEIC
 - C1>Y>2S>0231.MOV - C1>Y>2S>0237.MOV
 - C1>Y>2S>0231.HEIC - C1>Y>2S>0237.HEIC
 - C1>Y>2S>9410.MOV - C1>Y>2S>9500.MOV
 - C1>Y>2S>9410.HEIC - C1>Y>2S>9500.HEIC
- 3 Subjects: 394 files
 - Image Ranges:
 - C1>Y>3S>9200.MOV - C1>Y>3S>9313.MOV
 - C1>Y>3S>9200.HEIC - C1>Y>3S>9313.HEIC

- C1>Y>3S>9795.MOV - C1>Y>3S>9877.MOV
- C1>Y>3S>9795.HEIC - C1>Y>3S>9877.HEIC
- 4 Subjects: 478 files
 - Image Ranges:
 - C1>Y>4S>8702.MOV - C1>Y>4S>8940.MOV
 - C1>Y>4S>8702.HEIC - C1>Y>4S>8940.HEIC
- 5 Subjects: 556 files
 - Image Ranges:
 - C1>Y>5S>7286.MOV - C1>Y>5S>7563.MOV
 - C1>Y>5S>7286.HEIC - C1>Y>5S>7563.HEIC
- 6 Subjects: 1024 files
 - Image Ranges:
 - C1>Y>6S>5102.MOV - C1>Y>6S>5613.MOV
 - C1>Y>6S>5102.HEIC - C1>Y>6S>5613.HEIC

Unmasked Images

- 1 Subject: 2858 total files
 - Male: 1032 files
 - Image Ranges:
 - C1>N>1S>M>4592.MOV - C1>N>1S>4603.MOV
 - C1>N>1S>M>4592.HEIC - C1>N>1S>4603.HEIC
 - C1>N>1S>M>6167.MOV - C1>N>1S>M>6350.MOV
 - C1>N>1S>M>6167.HEIC - C1>N>1S>M>6350.HEIC
 - C1>N>1S>M>8116.MOV - C1>N>1S>M>8299.MOV
 - C1>N>1S>M>8116.HEIC - C1>N>1S>M>8299.HEIC
 - C1>N>1S>M>9560.MOV - C1>N>1S>M> 9683.MOV
 - C1>N>1S>M>9560.HEIC - C1>N>1S>M> 9683.HEIC
 - C1>N>1S>M>E4592.MOV - C1>N>1S>M>E4603.MOV
 - C1>N>1S>M>E4592.HEIC - C1>N>1S>M>E4603.HEIC
 - Female: 1826 files
 - Image Ranges:
 - C1>N>1S>F>4574.MOV - C1>N>1S>4590.MOV
 - C1>N>1S>F>4574.HEIC - C1>N>1S>4590.HEIC
 - C1>N>1S>F>5896.MOV - C1>N>1S>F>6164.MOV
 - C1>N>1S>F>5896.HEIC - C1>N>1S>F>6164.HEIC
 - C1>N>1S>F>6413.MOV - C1>N>1S>F>6742.MOV
 - C1>N>1S>F>6413.HEIC - C1>N>1S>F>6742.HEIC
 - C1>N>1S>F>7596.MOV - C1>N>1S>F>7896.MOV
 - C1>N>1S>F>7596.HEIC - C1>N>1S>F>7896.HEIC

- C1>N>1S>F>E4590.MOV
 - C1>N>1S>F>E4590.HEIC
 - 2 Subjects: 582 files
 - Image Ranges:
 - C1>N>2S>0001.MOV - C1>N>2S>0034.MOV
 - C1>N>2S>0001.HEIC - C1>N>2S>0034.HEIC
 - C1>N>2S>0116.MOV - C1>N>2S>0230.MOV
 - C1>N>2S>0116.HEIC - C1>N>2S>0230.HEIC
 - C1>N>2S>9314.MOV - C1>N>2S>9409.MOV
 - C1>N>2S>9314.HEIC - C1>N>2S>9409.HEIC
 - C1>N>2S>9942.MOV - C1>N>2S>9999.MOV
 - C1>N>2S>9942.HEIC - C1>N>2S>9999.HEIC
 - 3 Subjects: 664 files
 - Image Ranges:
 - C1>N>3S>8975.MOV - C1>N>3S>9197.MOV
 - C1>N>3S>8975.HEIC - C1>N>3S>9197.HEIC
 - C1>N>3S>9684.MOV - C1>N>3S>9794.MOV
 - C1>N>3S>9684.HEIC - C1>N>3S>9794.HEIC
 - 4 Subjects: 496 files
 - Image Ranges:
 - C1>N>4S>8487.MOV - C1>N>4S>8700.MOV
 - C1>N>4S>8487.HEIC - C1>N>4S>8700.HEIC
 - C1>N>4S>8941.MOV - C1>N>4S>8974.MOV
 - C1>N>4S>8941.HEIC - C1>N>4S>8974.HEIC
 - 5 Subjects: 354 files
 - Image Ranges:
 - C1>N>5S>7133.MOV - C1>N>5S>7285.MOV
 - C1>N>5S>7133.HEIC - C1>N>5S>7285.HEIC
 - C1>N>5S>7564.MOV - C1>N>5S>7595.MOV
 - C1>N>5S>7564.HEIC - C1>N>5S>7595.HEIC
 - 6 Subjects: 990 files
 - Image Ranges:
 - C1>N>6S>4606.MOV - C1>N>6S>5101.MOV
 - C1>N>6S>4606.HEIC - C1>N>6S>5101.HEIC
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Camera 2 Images

The Camera 2 folder contains 6,738 files, containing corresponding .MOV and .HEIC files. Of these files, 2,832 of these files contain images with masked subjects, while 3906 files contain images with unmasked subjects.

Masked Images:

- 1 Subject: 1574 total files
 - Male: 326 Files
 - Image Ranges:
 - C2>Y>1S>M>9009.MOV - C2>Y>1S>M>9171.MOV
 - C2>Y>1S>M>9009.HEIC - C2>Y>1S>M>9171.HEIC
 - Female: 1248 files
 - Image Ranges:
 - C2>Y>1S>F>6901.MOV - C2>Y>1S>F>7188.MOV
 - C2>Y>1S>F>6901.HEIC - C2>Y>1S>F>7188.HEIC
 - C2>Y>1S>F>7916.MOV - C2>Y>1S>F>8162.MOV
 - C2>Y>1S>F>7916.HEIC - C2>Y>1S>F>8162.HEIC
 - C2>Y>1S>F>8682.MOV - C2>Y>1S>F>8775.MOV
 - C2>Y>1S>F>8682.HEIC - C2>Y>1S>F>8775.HEIC
 - 2 Subjects: 62 files
 - Image Ranges:
 - C2>Y>2S>9833.MOV - C2>Y>2S>9863.MOV
 - C2>Y>2S>9833.HEIC - C2>Y>2S>9863.HEIC
 - 3 Subjects: 0 files
 - 4 Subjects: 48 files
 - Image Ranges:
 - C2>Y>4S>9355.MOV - C2>Y>4S>9393.MOV
 - C2>Y>4S>9355.HEIC - C2>Y>4S>9393.HEIC
 - 5 Subjects: 278 files
 - Image Ranges:
 - C2>Y>5S>8339.MOV - C2>Y>5S>8477.MOV
 - C2>Y>5S>8339.HEIC - C2>Y>5S>8477.HEIC
 - 6 Subjects: 870 files
 - Image Ranges:
 - C2>Y>6S>6463.MOV - C2>Y>6S>6900.MOV
 - C2>Y>6S>6463.HEIC - C2>Y>6S>6900.HEIC
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Unmasked Images:

- 1 Subject: 1918 total files
 - Male: 842 files
 - Image Ranges:
 - C2>N>1S>M>7349.MOV - C2>N>1S>M>7596.MOV
 - C2>N>1S>M>7349.HEIC - C2>N>1S>M>7596.HEIC
 - C2>N>1S>M>8818.MOV - C2>N>1S>M>9008.MOV
 - C2>N>1S>M>8818.HEIC - C2>N>1S>M>9008.HEIC
 - Female: 1076 files
 - Image Ranges:
 - C2>N>1S>F>7189.MOV - C2>N>1S>F>7297.MOV
 - C2>N>1S>F>7189.HEIC - C2>N>1S>F>7297.HEIC
 - C2>N>1S>F>7641.MOV - C2>N>1S>F>7915.MOV
 - C2>N>1S>F>7641.HEIC - C2>N>1S>F>7915.HEIC
 - C2>N>1S>F>8505.MOV - C2>N>1S>F>8681.MOV
 - C2>N>1S>F>8505.HEIC - C2>N>1S>F>8681.HEIC
- 2 Subjects: 150 files
 - Image Ranges:
 - C2>N>2S>9655.MOV - C2>N>2S>9715.MOV
 - C2>N>2S>9655.HEIC - C2>N>2S>9715.HEIC
 - C2>N>2S>9908.MOV - C2>N>2S>9921.MOV
 - C2>N>2S>9908.MOV - C2>N>2S>9921.MOV
- 3 Subjects: 160 files
 - Image Ranges:
 - C2>N>3S>9413.MOV - C2>N>3S>9496.MOV
 - C2>N>3S>9413.HEIC - C2>N>3S>9496.HEIC
- 4 Subjects: 366 files
 - Image Ranges:
 - C2>N>4S>9172.MOV - C2>N>4S>9354.MOV
 - C2>N>4S>9172.HEIC - C2>N>4S>9354.HEIC
- 5 Subjects: 330 files
 - Image Ranges:
 - C2>N>5S>8165.MOV - C2>N>5S>8338.MOV
 - C2>N>5S>8165.HEIC - C2>N>5S>8338.HEIC
 - C2>N>5S>8748.MOV - C2>N>5S>8504.MOV
 - C2>N>5S>8748.HEIC - C2>N>5S>8504.HEIC
- 6 Subjects: 982 files
 - Image Ranges:
 - C2>N>6S>5967.MOV - C2>N>6S>6460.MOV
 - C2>N>6S>5967.HEIC - C2>N>6S>6460.HEIC

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Contact Information
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Please contact the authors {onkulkarni@albany.edu} for any questions regarding the dataset.

THANK YOU!