camera

Connection to camera on Android device

Description

A `camera` object represents a connection to a camera on an Android™ device. After you create the object, you can acquire images from the camera using Object Functions.

Creation

Syntax

```
cam = camera(m,name)
```

Description

`cam = camera(m,name)` connects to the camera specified by `name` on the Android device `m`. example

Input Arguments

expand all

`m` — Android mobile device connection
mobiledev object

Android mobile device connection, specified as a `mobiledev` object.

`name` — Camera name
`'back'` | `'front'`

Properties

expand all

`Name` — Camera name
`'back'` | `'front'`

`AvailableResolutions` — Available resolutions
cell array

`Resolution` — Camera resolution
character vector | string

`Flash` — Camera flash mode
`'auto'` | `'on'` | `'off'`

`Autofocus` — Camera autofocus mode
`'on'` | `'off'`

Object Functions

`snapshot`	Acquire single image frame from Android device camera

Examples

collapse all

Connect to a Camera on an Android Mobile Device

This example assumes that you have already installed and set up MATLAB® Mobile™ on your Android device and connected to the MathWorks® Cloud. For more information about these steps, see Sensor Data Collection with MATLAB.

Start MATLAB Mobile on your Android device.

On the **Commands** screen of MATLAB Mobile, create a `mobiledev` object `m`.

```
m = mobiledev
```

```
m =
mobiledev with properties:

                  Connected: 1
             AvailableCameras: {'back' 'front'}
                      Logging: 0
             InitialTimestamp: ''

    AccelerationSensorEnabled: 0
 AngularVelocitySensorEnabled: 0
        MagneticSensorEnabled: 0
     OrientationSensorEnabled: 0
        PositionSensorEnabled: 0

 Supported functions
```

The `AvailableCameras` property indicates that this device has both `'back'` and `'front'` cameras.

Create a connection to the `'back'` camera of the device.

```
cam = camera(m,'back')
```

```
cam =
  Camera with properties:

                    Name: 'back'
    AvailableResolutions: {'640x480'  '1280x720'}
              Resolution: '640x480'
                   Flash: 'off'
               Autofocus: 'on'
```

Creating the connection returns the `camera` object and its properties.

See Also

`mobiledev` | `snapshot`

Topics

Acquire Images from Android Camera

Classify Images from Android Camera Using Pretrained Network

Introduced in R2019a
