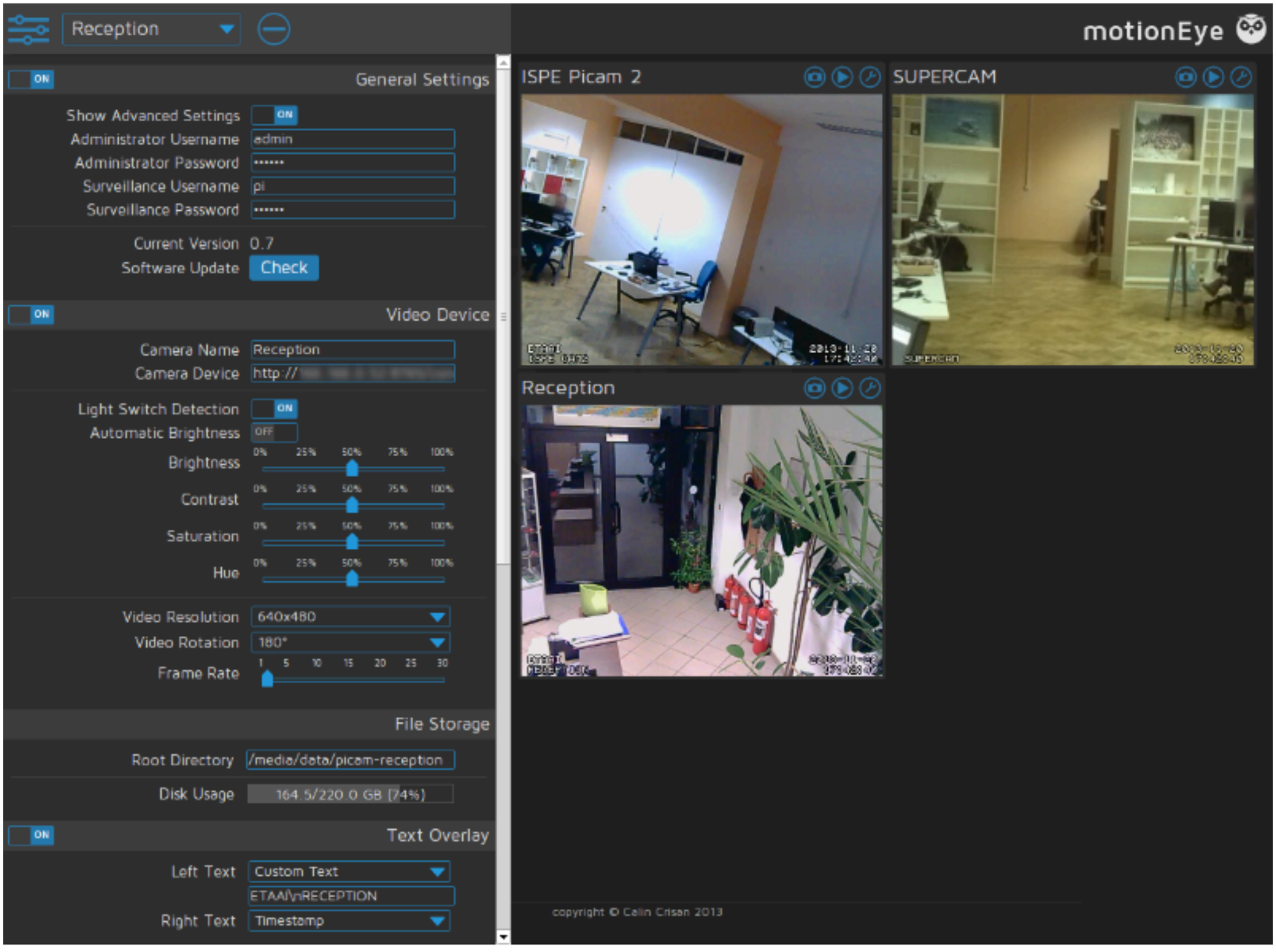
motionEye on RPI

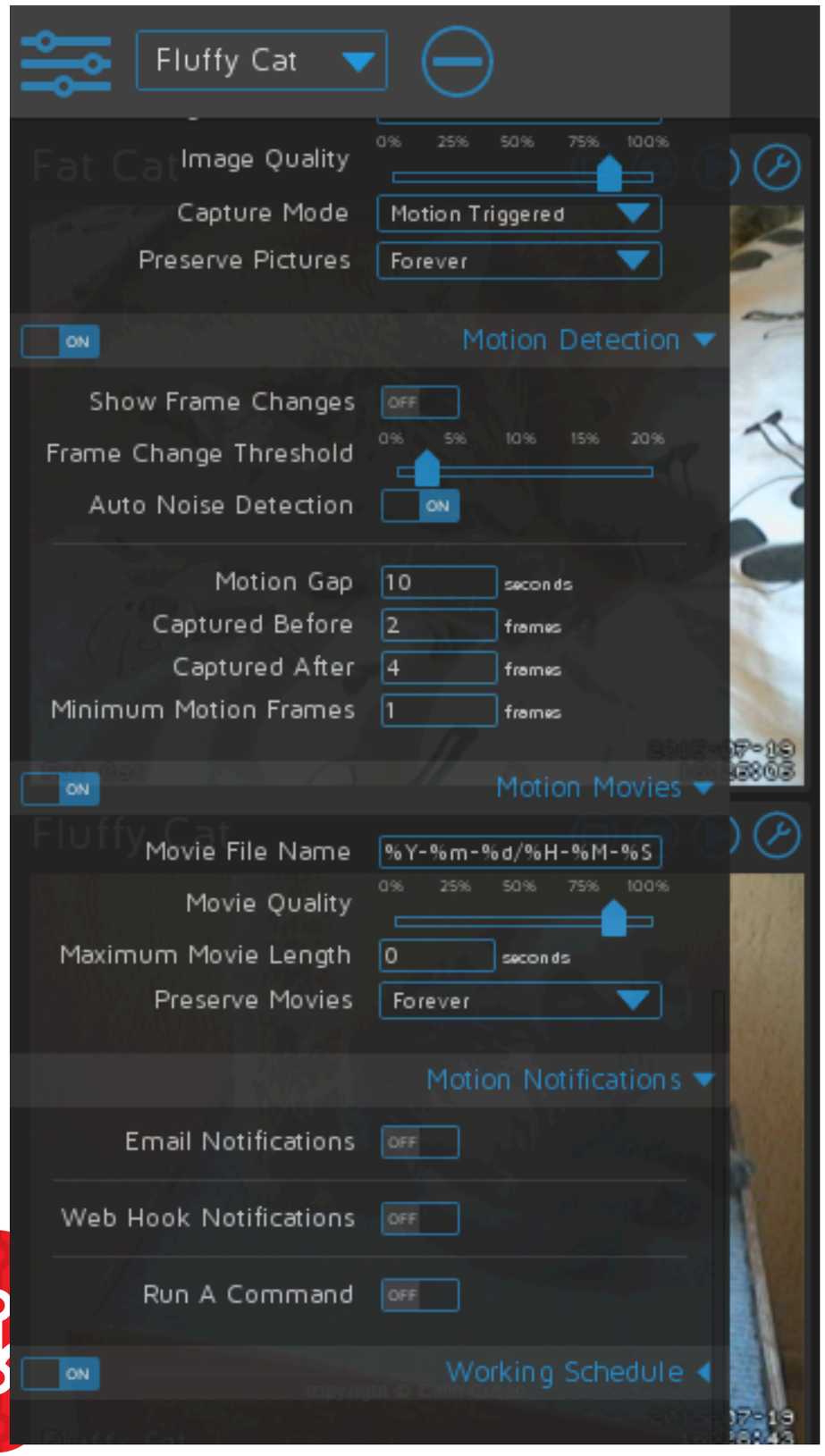
Features

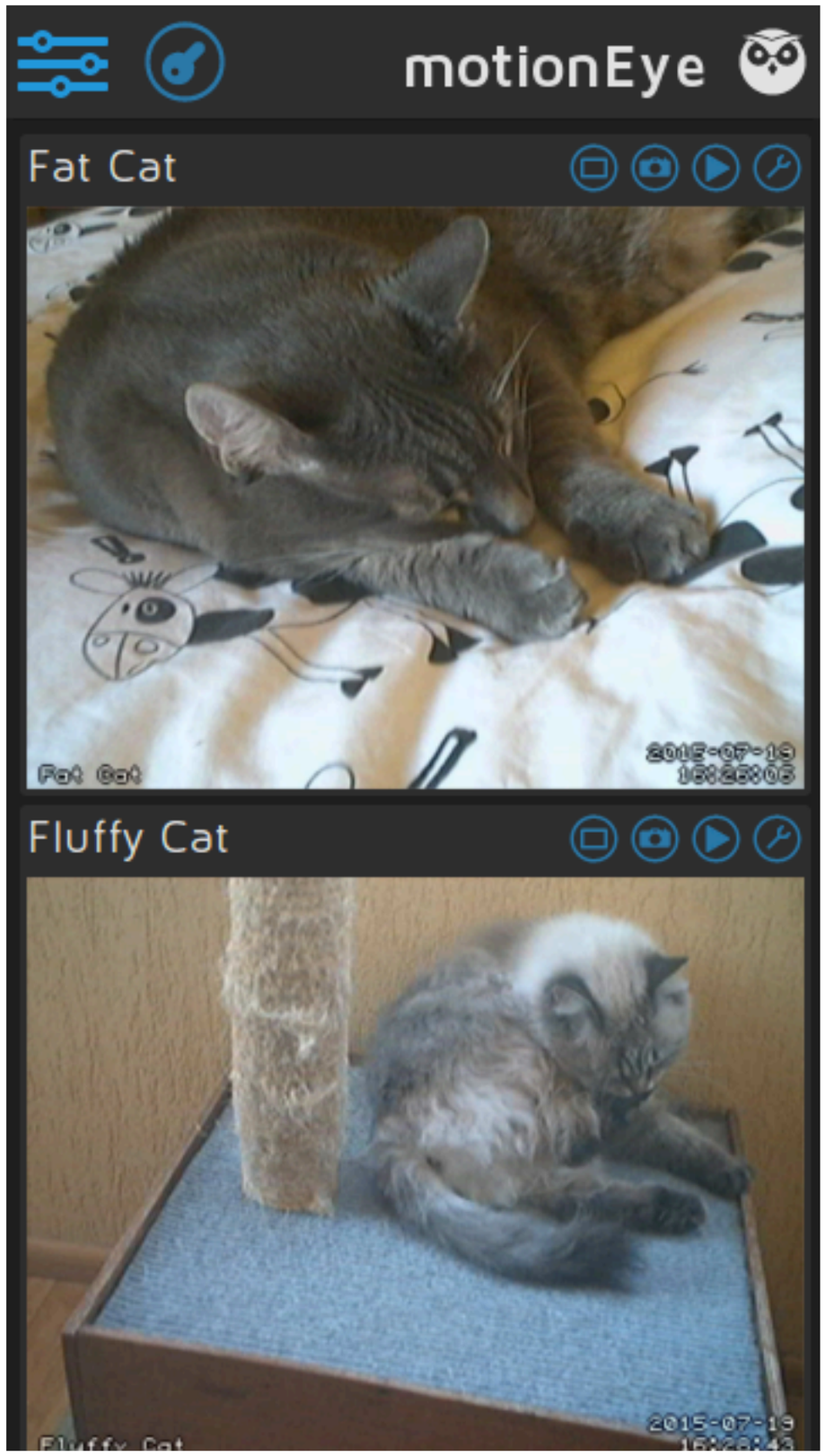
- Web-based application
- Desktop and mobile views
- Motion detection
- Save still images (jpg) and/or movies (avi, mov, mp4, mkv, etc.)
- Timelapse movies
- Notifications
- Upload service: Google, Dropbox

Desktop view



Mobile view


Fluffy Cat
Image Quality
0% 25% 50% 75% 100%
Capture Mode
Motion Triggered
Preserve Pictures
Forever
ON
Motion Detection
Show Frame Changes
OFF
Frame Change Threshold
0% 5% 10% 15% 20%
Auto Noise Detection
ON
Motion Gap
10
seconds
Captured Before
2
frames
Captured After
4
frames
Minimum Motion Frames
1
frames
ON
Motion Movies
Movie File Name
%Y-%m-%d/%H-%M-%S
Movie Quality
0% 25% 50% 75% 100%
Maximum Movie Length
0
seconds
Preserve Movies
Forever
Motion Notifications
Email Notifications
OFF
Web Hook Notifications
OFF
Run A Command
OFF
ON
Working Schedule


motionEye
Fat Cat
Fluffy Cat

Cameras

- Serial Camera
- USB
- Network

Versions

- **motionEyeOS**: ready-to-use
  - https://github.com/ccrisan/motioneyeos
- **motionEye**: over an existing system
  - https://github.com/ccrisan/motioneye

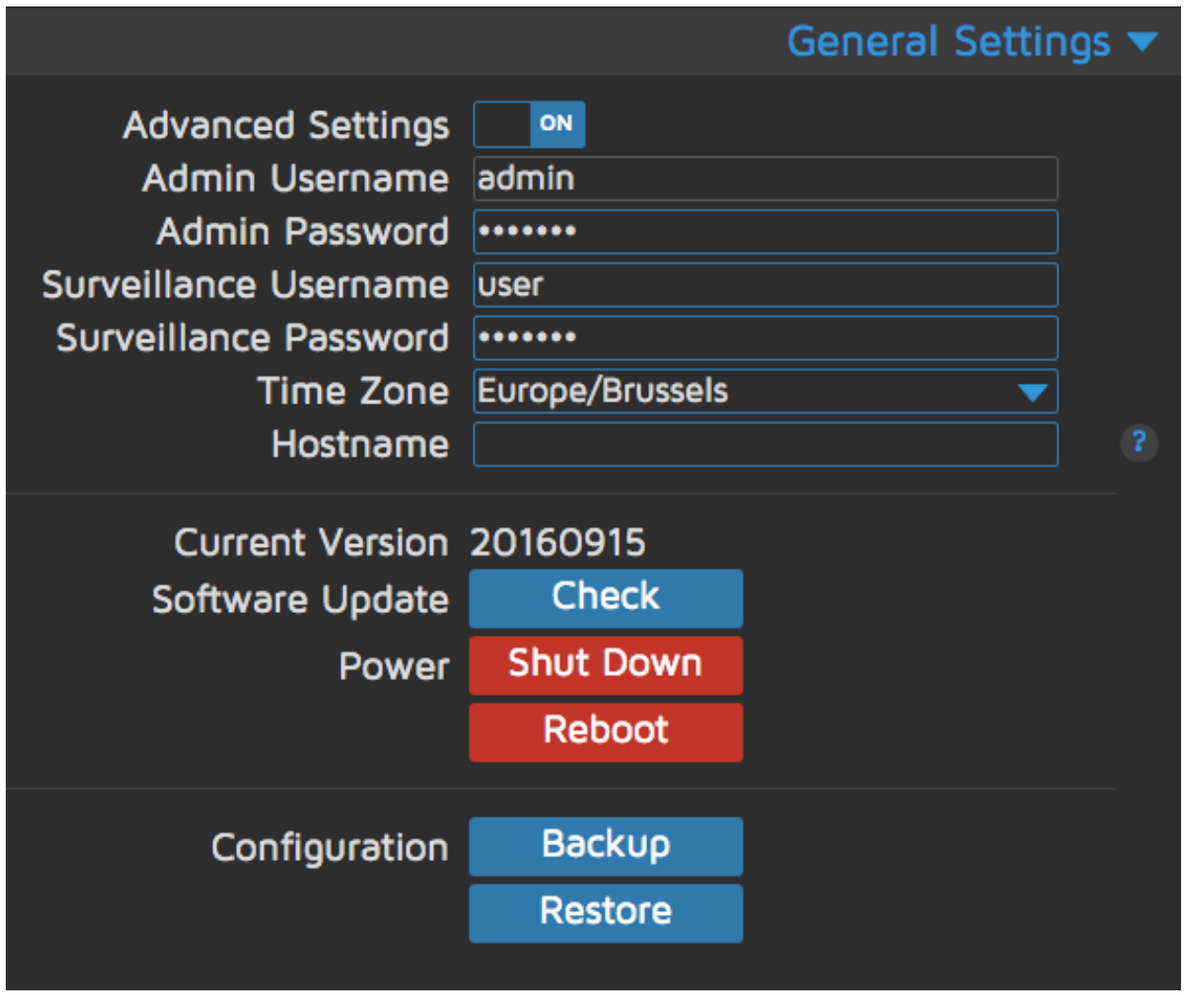
motionEyeOS

- Ready to use solution
- Includes the OS and motionEye
- Not appropriate for other works

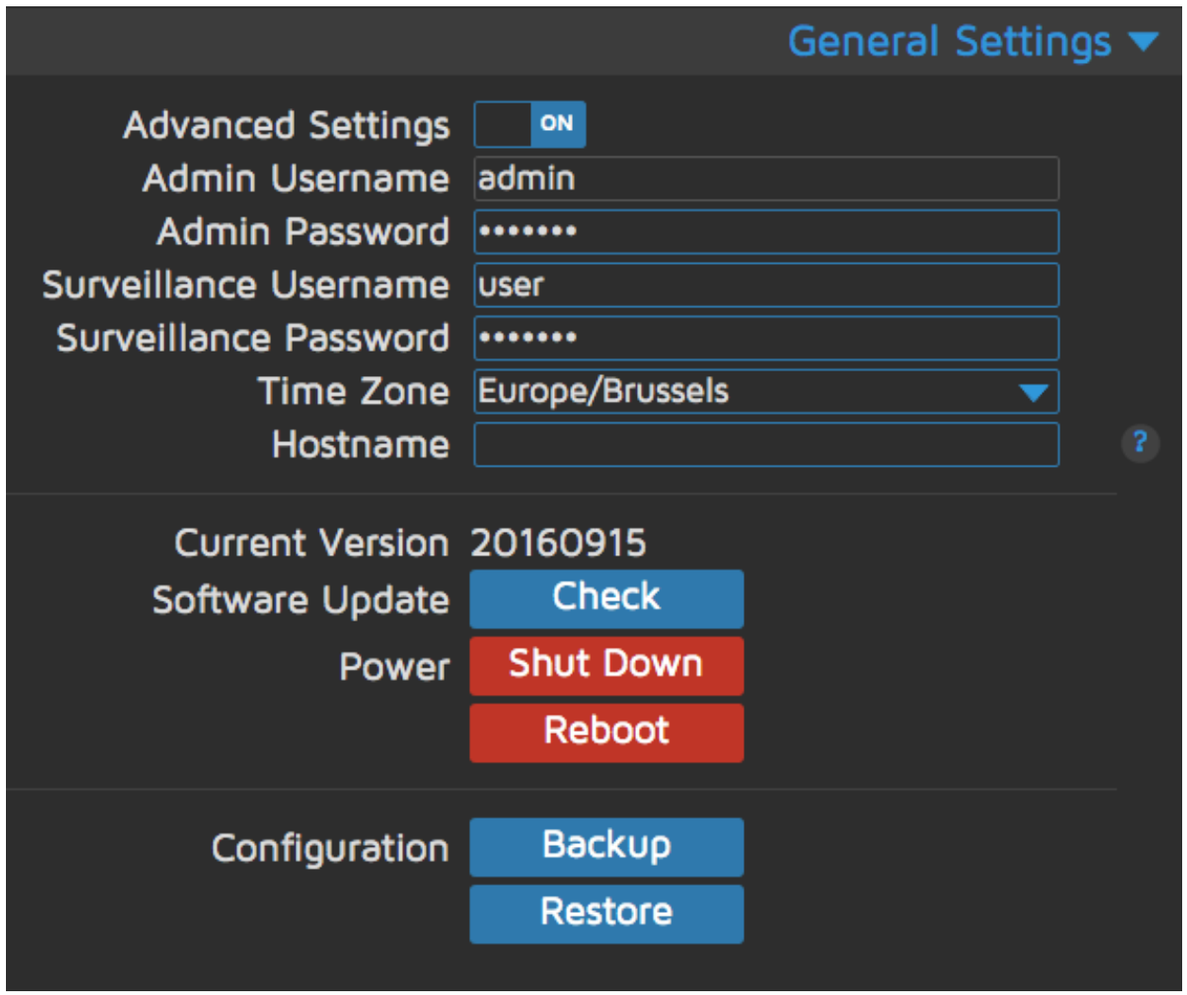
motionEyeOS

- Download image: https://goo.gl/AOZCYK
- Copy image to the SD card:
  - Windows: https://goo.gl/YjeqDo
  - Linux/OSX: https://goo.gl/i2IRyz
- Insert the card on the RPI
- Default account: admin (no password)

- Set a password for Admin and Surveillance accounts
- Set your Time Zone
- Apply and reboot

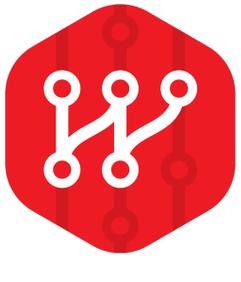


- Software update
- Shut Down
- Reboot



motionEye

- Package to be installed over an existing OS
- Includes motionEye
- Appropriate for other works



motionEye

- Download image: https://goo.gl/AOZCYK
- Copy image to the SD card:
  - Windows: https://goo.gl/YjeqDo
  - Linux/OSX: https://goo.gl/i2IRyz
- Insert the card on the RPI
- Default account: admin (no password)

module

- Add the module “bcm2835-v4l2”

$ cd /etc

$ sudo vi modules

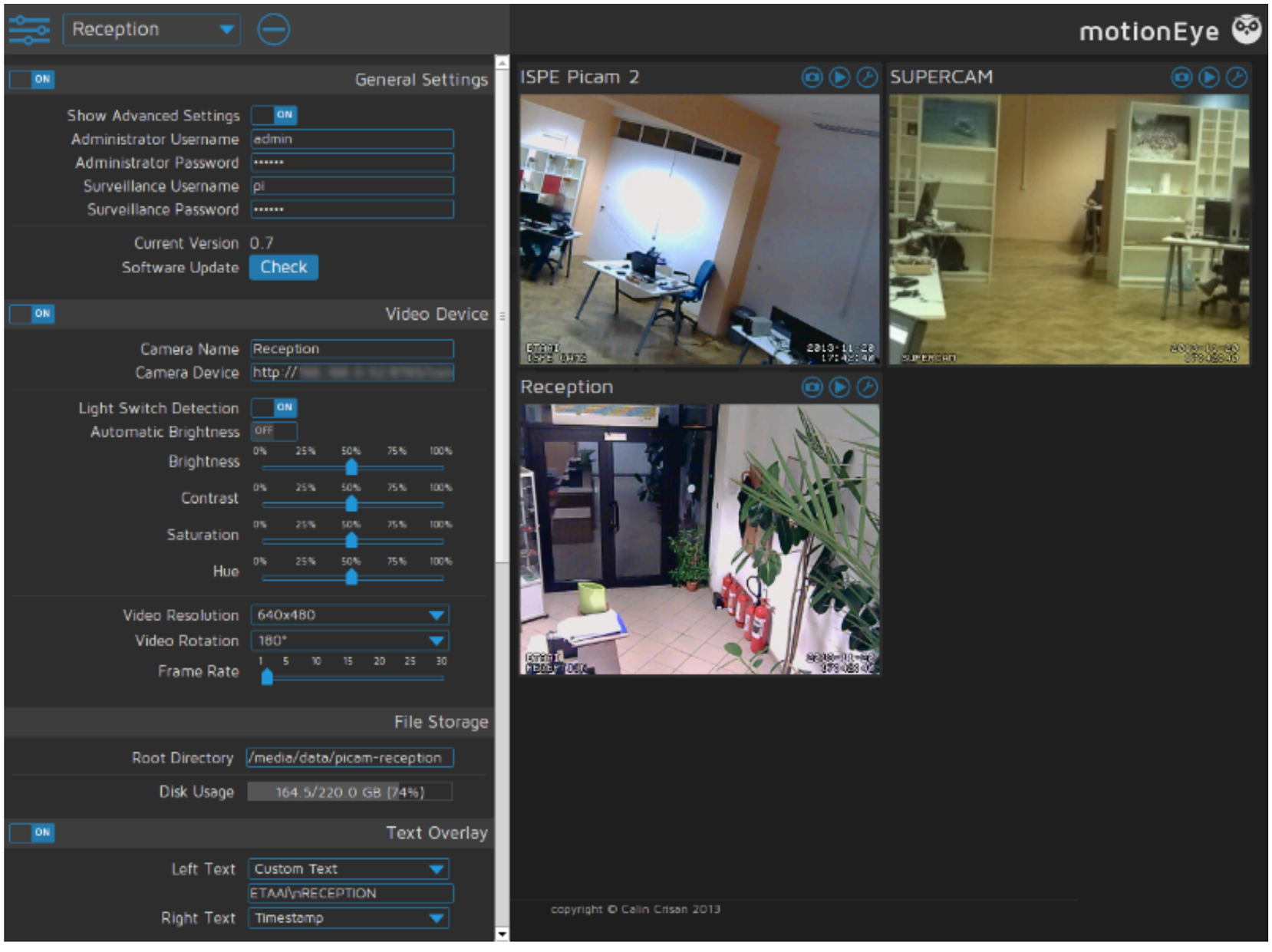
…

bcm2835-v4l2

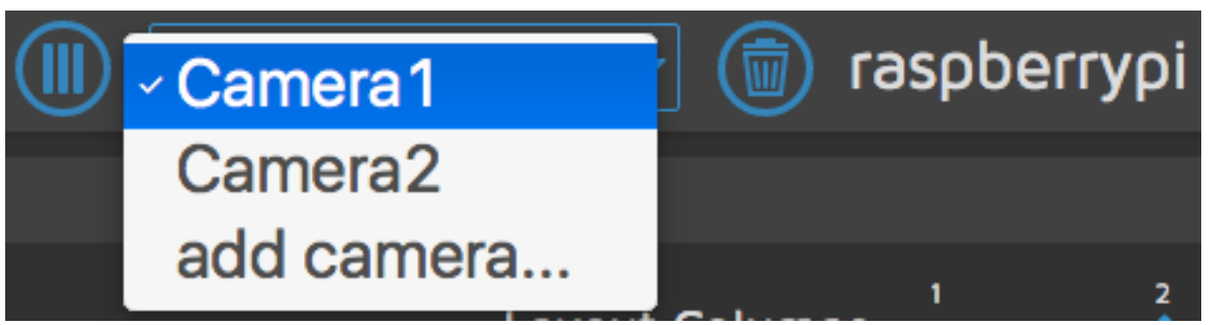
…

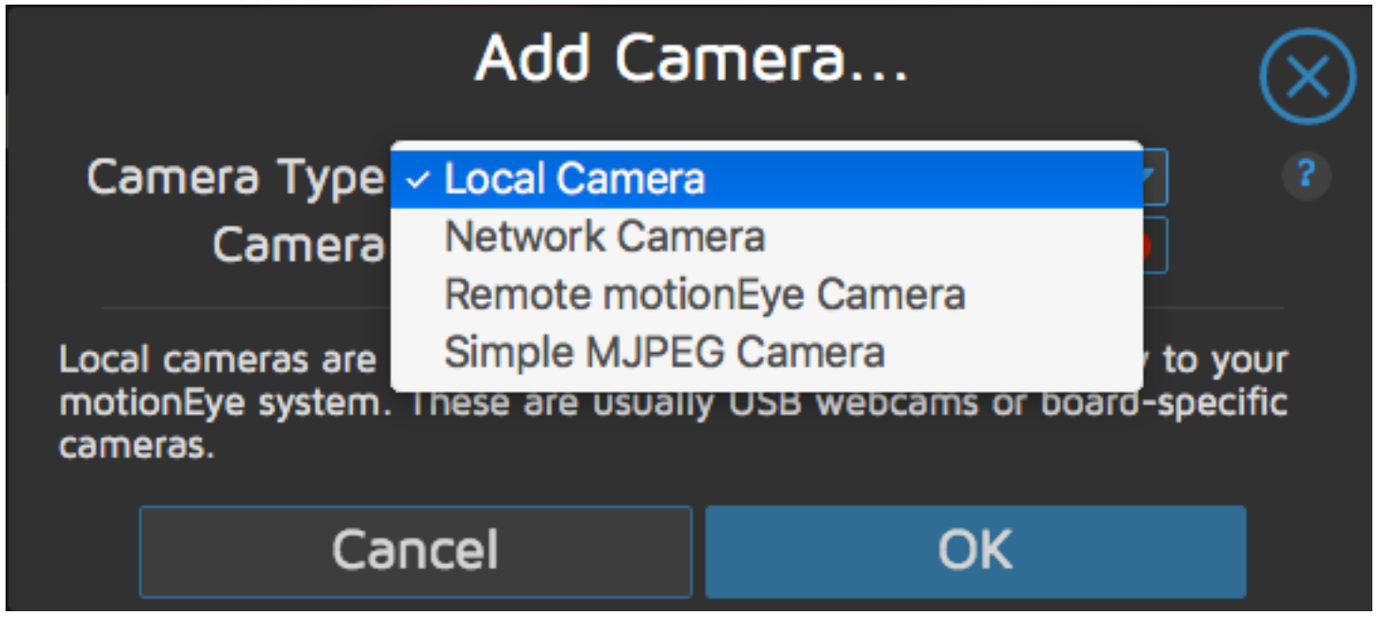
$ sudo reboot

- Open the app:
  - http://<your host>:8765



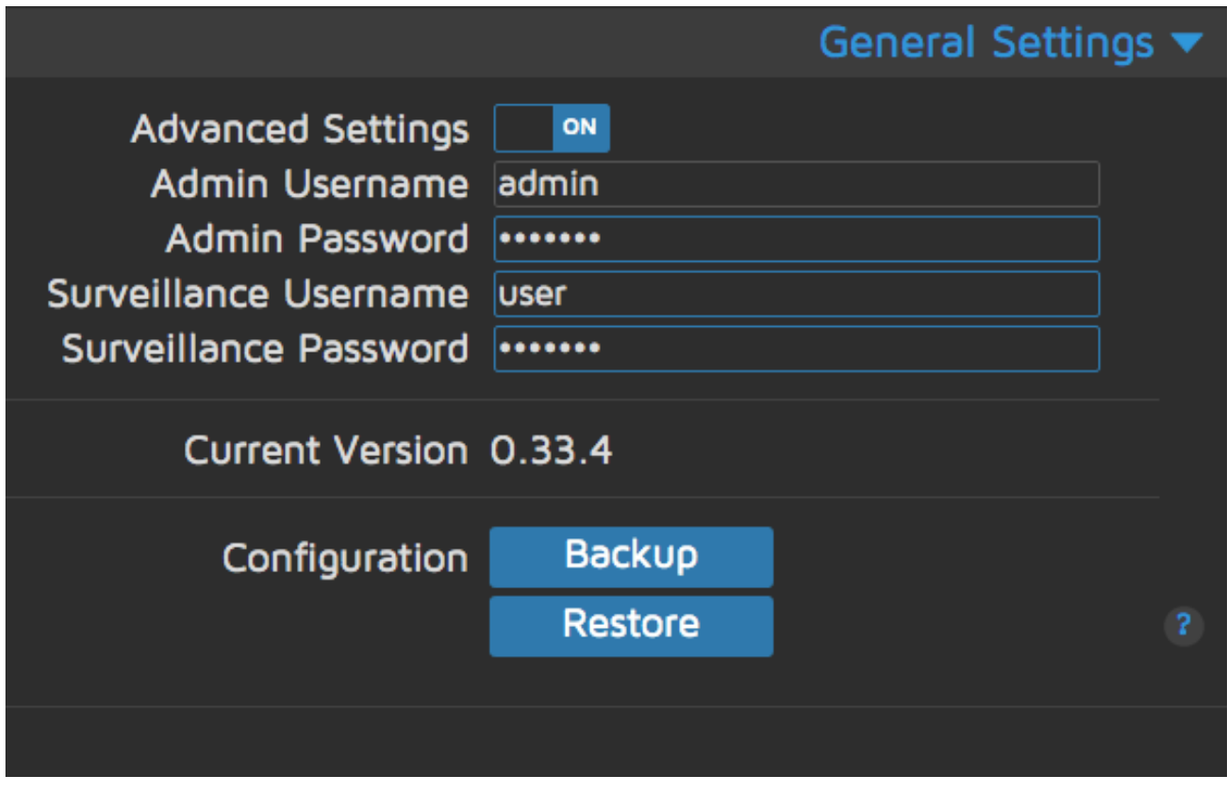
- Add a camera


Camera1
Camera2
add camera...
raspberrypi
1
2

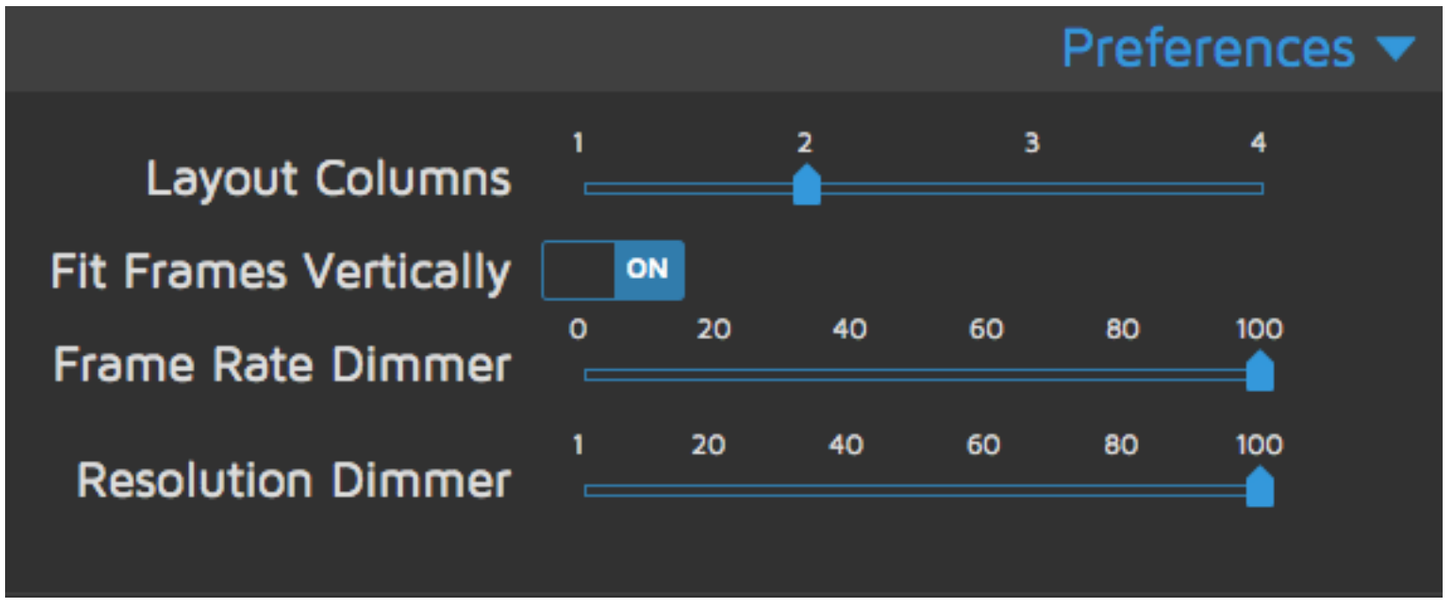

Add Camera...
Camera Type
Camera
Local Camera
Network Camera
Remote motionEye Camera
Simple MJPEG Camera
Local cameras are
to your
motionEye system. These are usually USB webcams or board-specific
cameras.
Cancel
OK

- Open the settings:

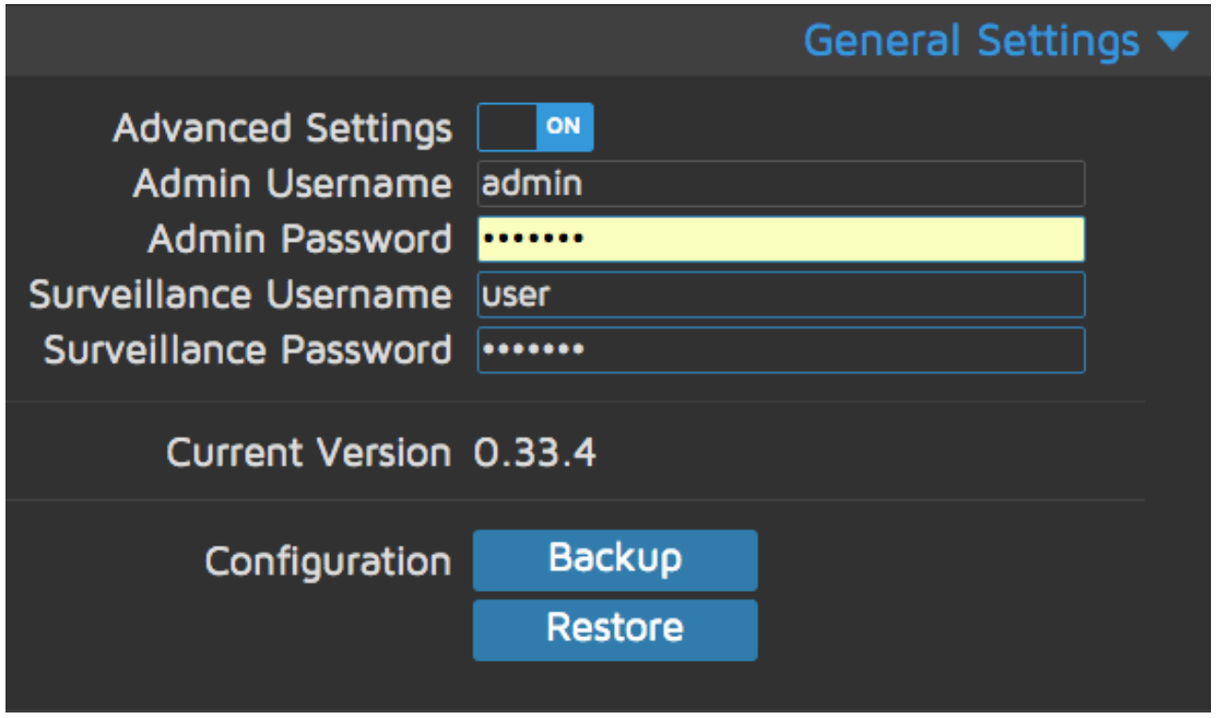
- Set a password for Admin and Surveillance accounts



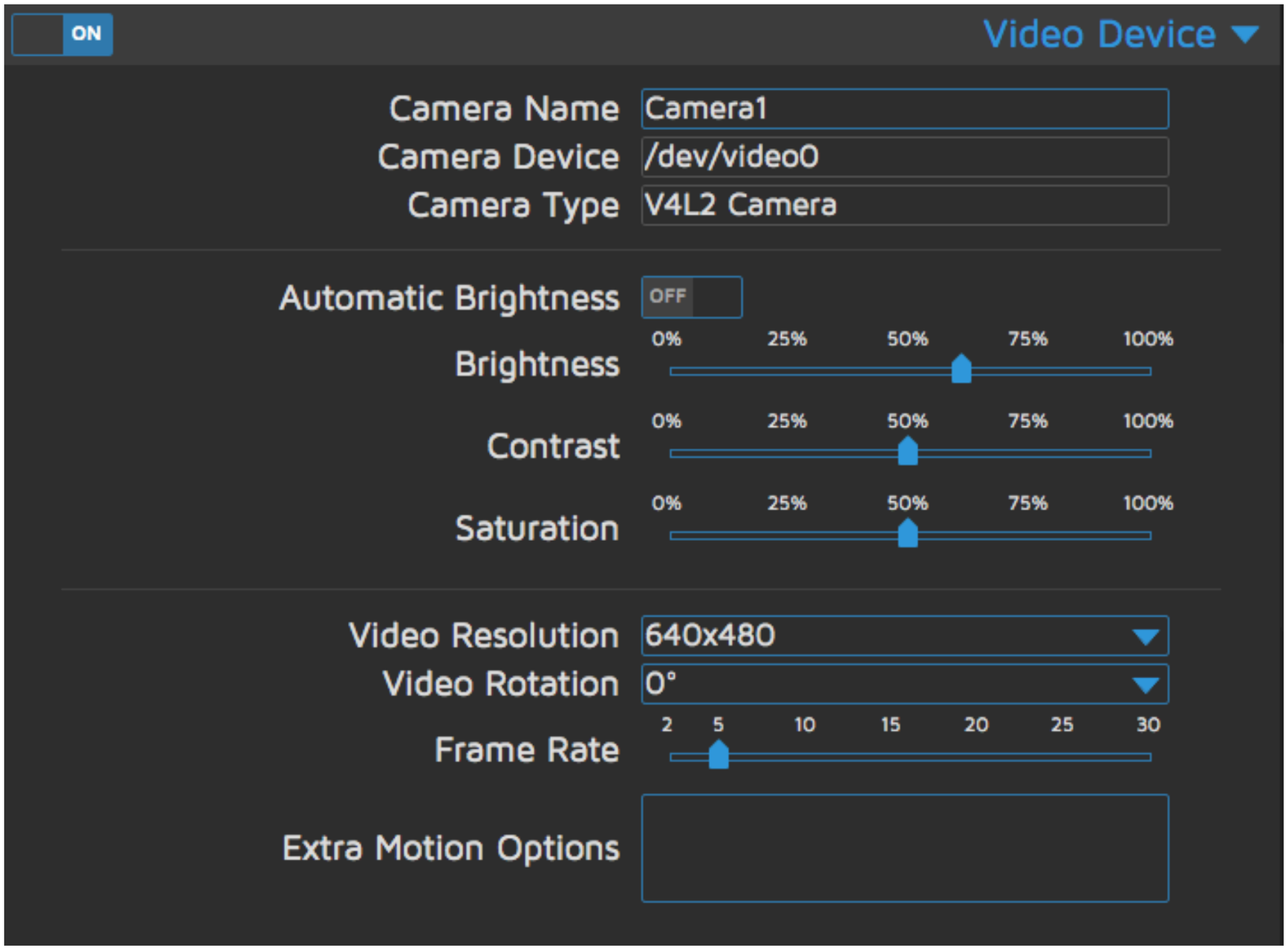
- Change the layout



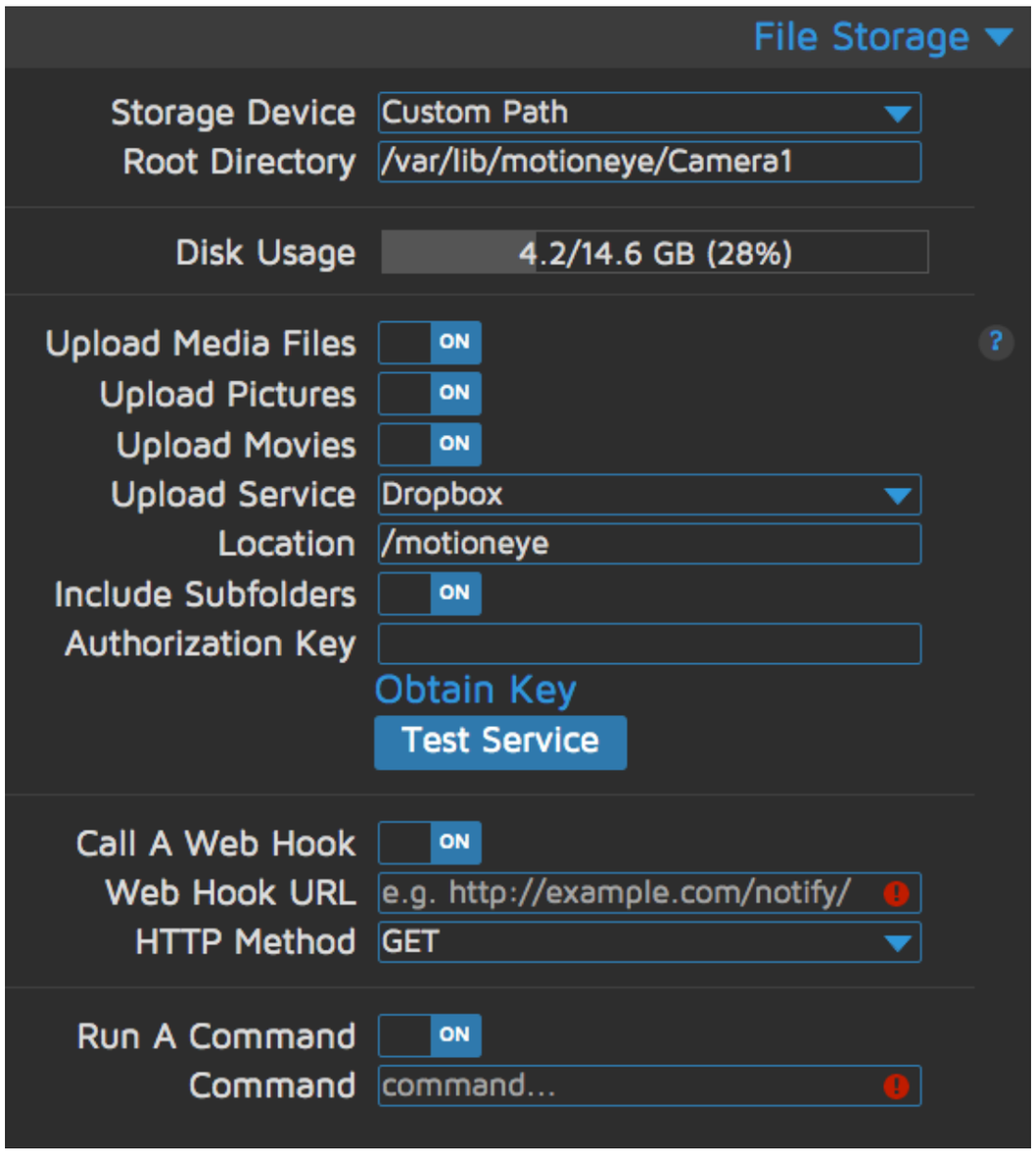
- Settings
  - Change password
  - Backup and Restore configuration settings
  - Version of the application
  - Advanced settings (text overlay, motion detection, file storage)



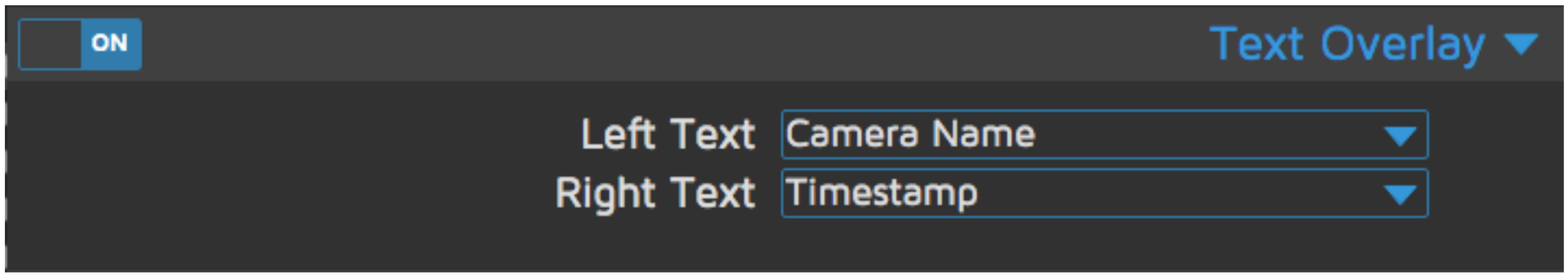
- Video settings (On/Off) - Selected Camera
  - Device information
  - Image settings (contrast, saturation, brightness)
  - Resolution et Rotation
  - Frame rate



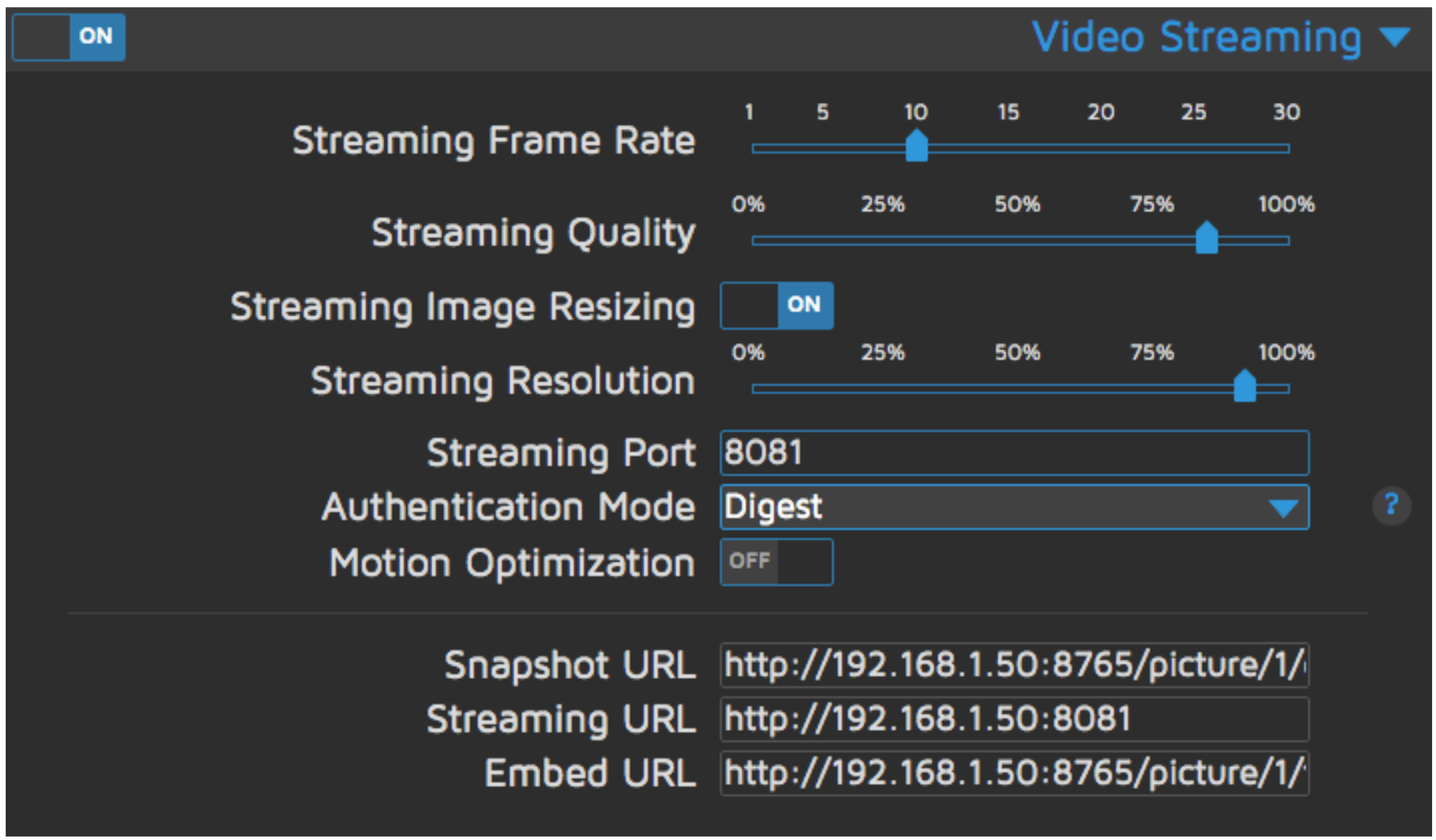
- File Storage - Selected Camera
  - Location and disk usage
  - Upload service (Google or Dropbox)
  - Web hook
  - Command



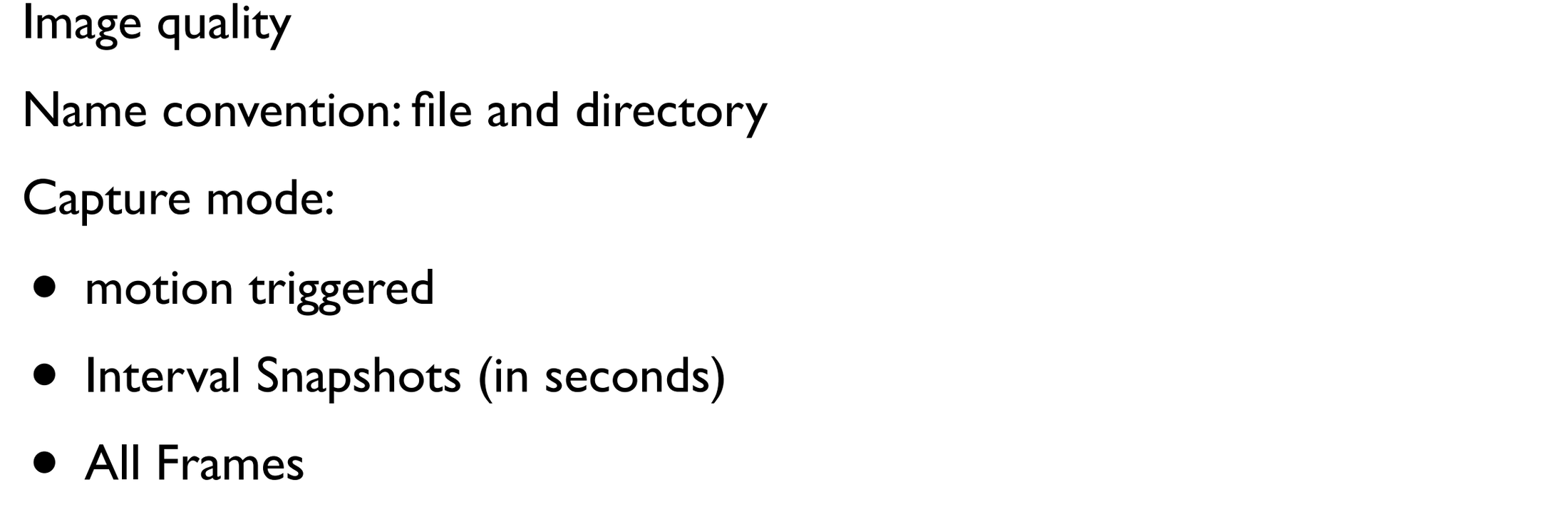
- Text Overlay (On/Off) - Selected Camera
  - Text to display on the camera



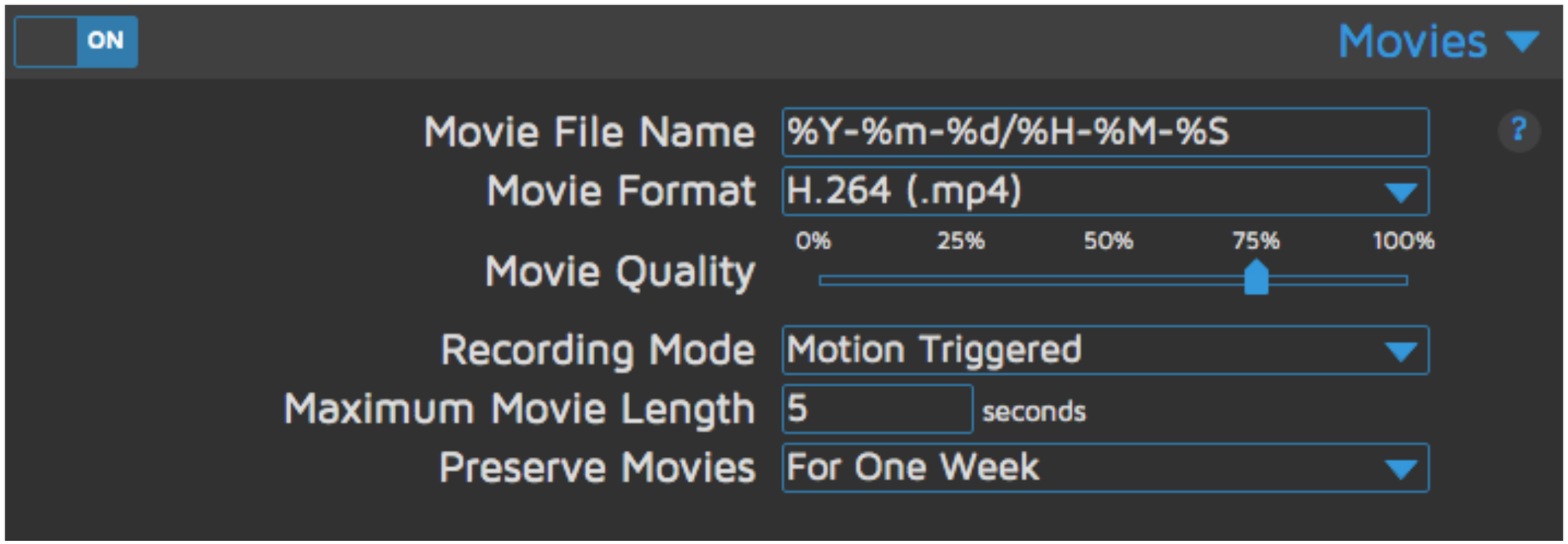
- Video Streaming (On/Off) - Selected Camera
  - Image quality
  - Authentication Mode (Disable, Basic, Digest)
    - Basic and Digest require “Surveillance Username“
  - URLs: snapshot, streaming, embed (iFrame)



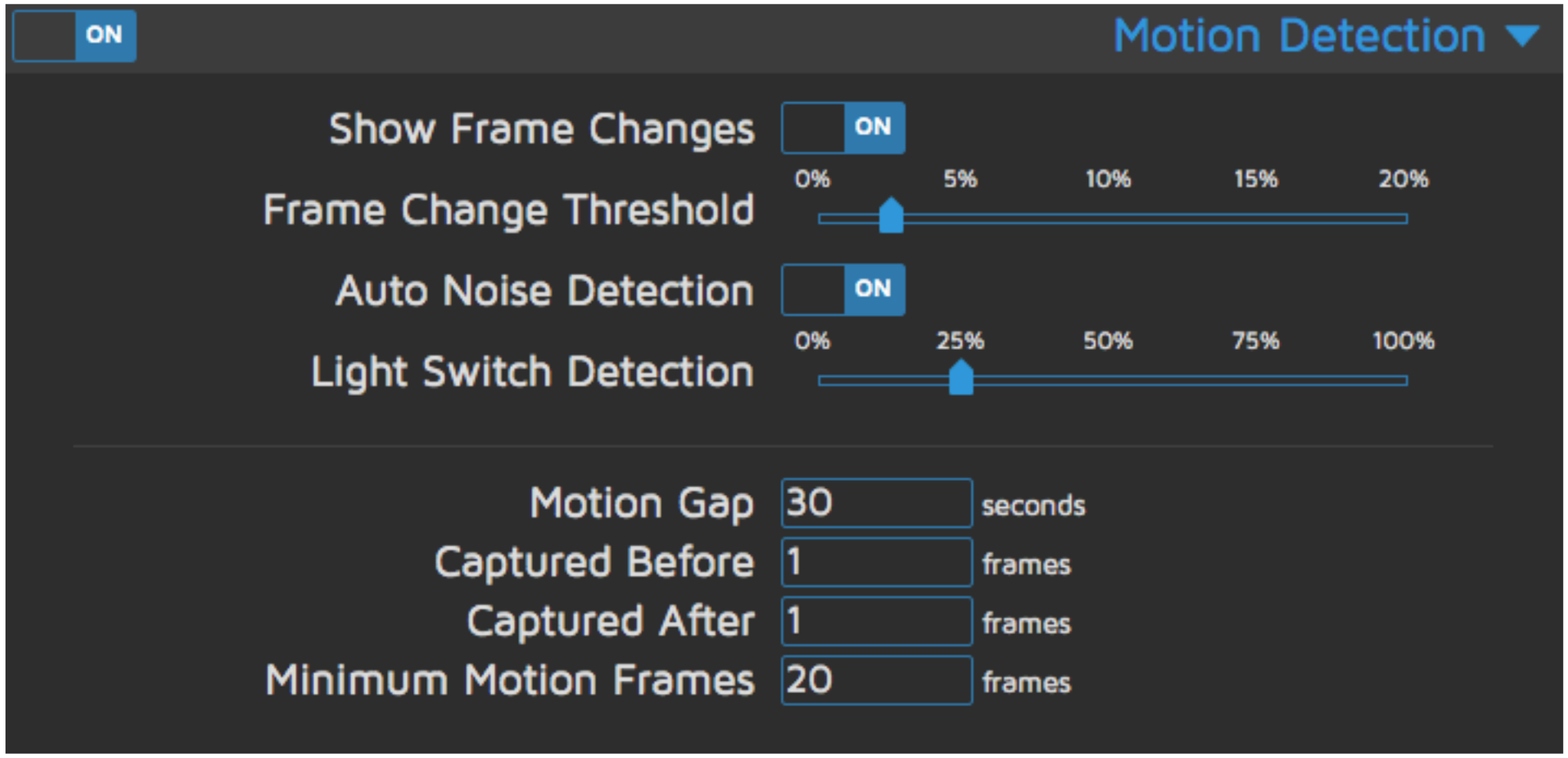
- Still Images (On/Off) - Selected Camera
  - Image quality
  - Name convention: file and directory
  - Capture mode:
    - motion triggered
    - Interval Snapshots (in seconds)
    - All Frames
  - Preserve files:
    - day, week, month, year, always or custom



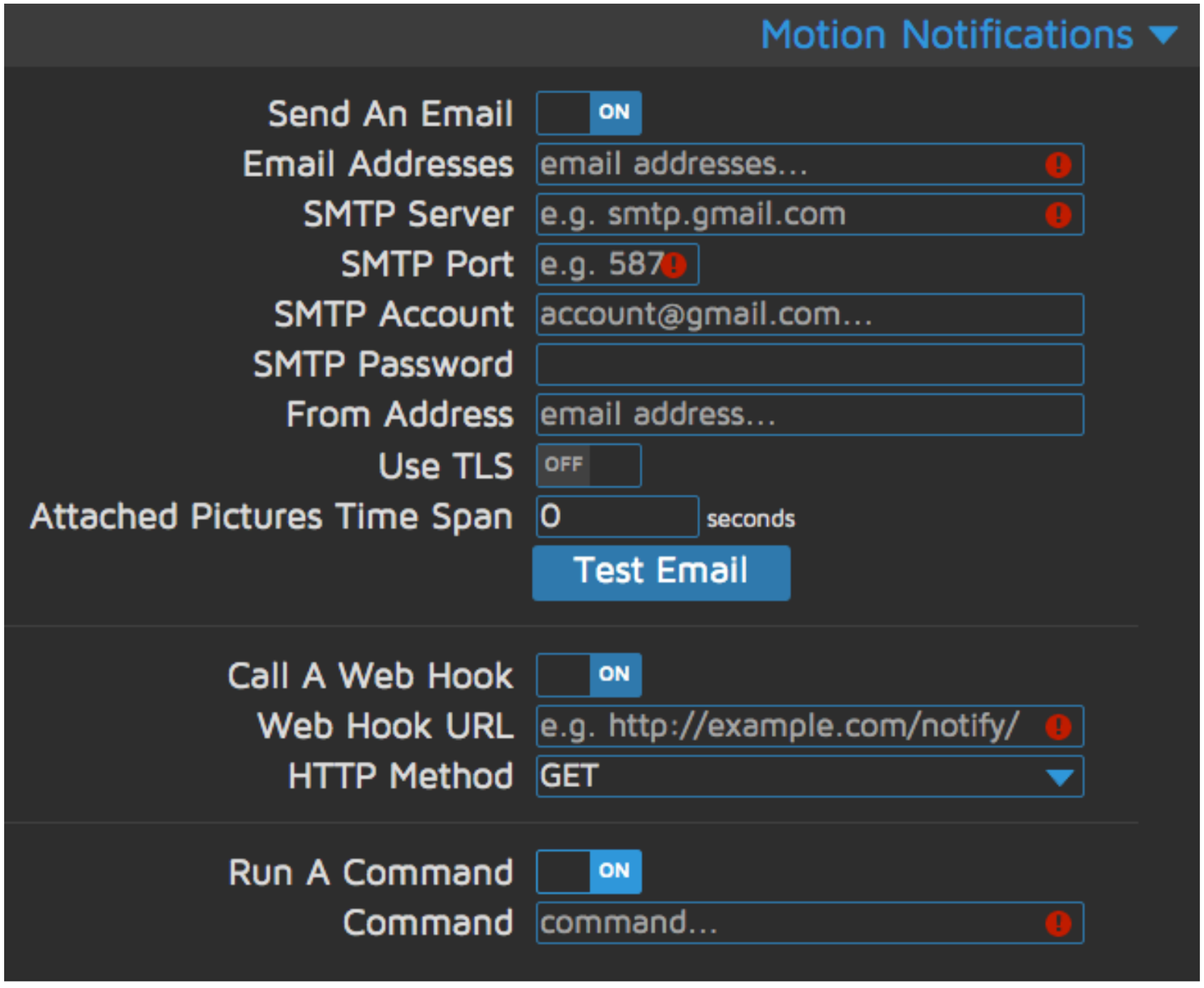
- Movies (On/Off) - Selected Camera
  - Movie quality
  - Name convention: file and directory
  - Format: mkv, avi, mp4, ogg, etc.
  - Recording mode:
    - motion triggered
    - continuous recording
  - Maximum movie length (in seconds)
  - Preserve files:
    - day, week, month, year, always or custom



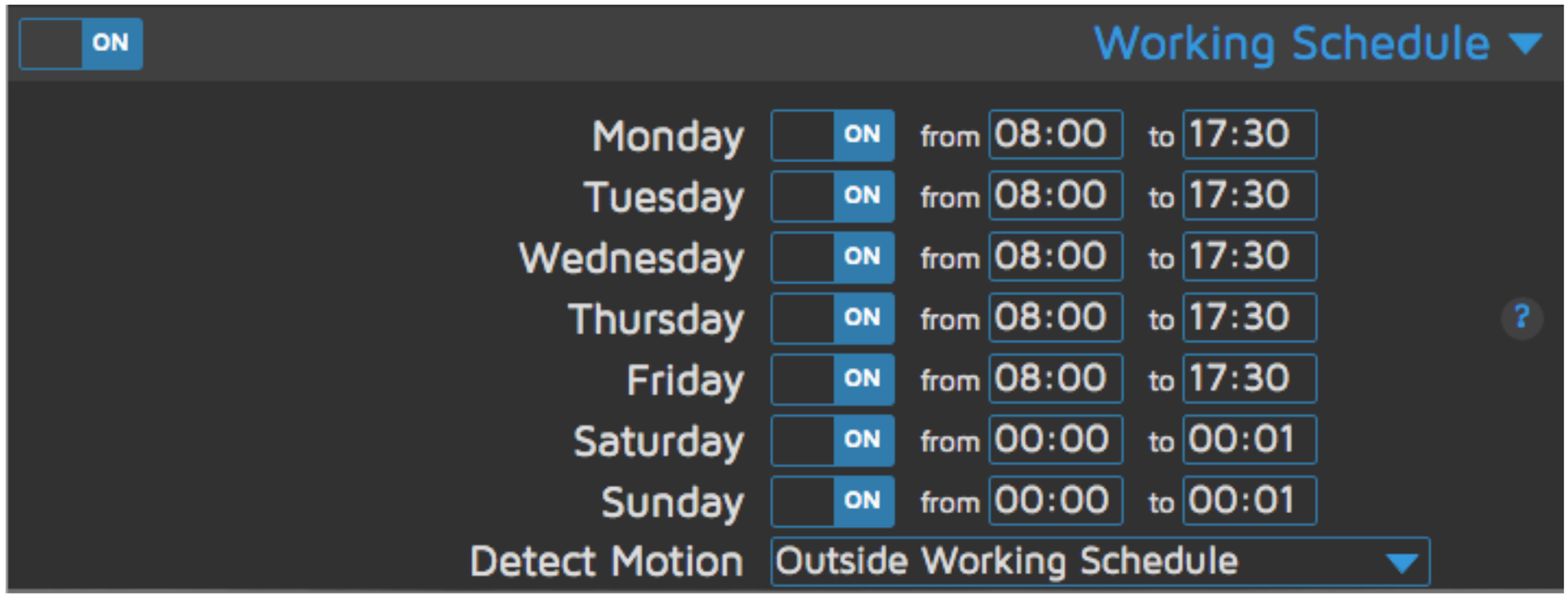
- Motion Detection (On/Off) - Selected Camera
  - Frame settings (changes, sensitivity, noise detection, change detection, etc)
  - Motion Gap (in seconds) is the number of seconds in silence
  - Number of frames to capture before and after the detection
  - Number of frames required to start the capture



- Motion Notifications - Selected Camera
  - Action to perform when a detection occurred (send an email, call a web hook, run a specific command)



- Working Schedule (On/Off) - Selected Camera
  - Plan the motion detection



Considerations

- Play with it!
- Customize parameters according:
  - your camera
  - your environment (inside, outside, lights)
- Ask support of some thieves

Q/A