

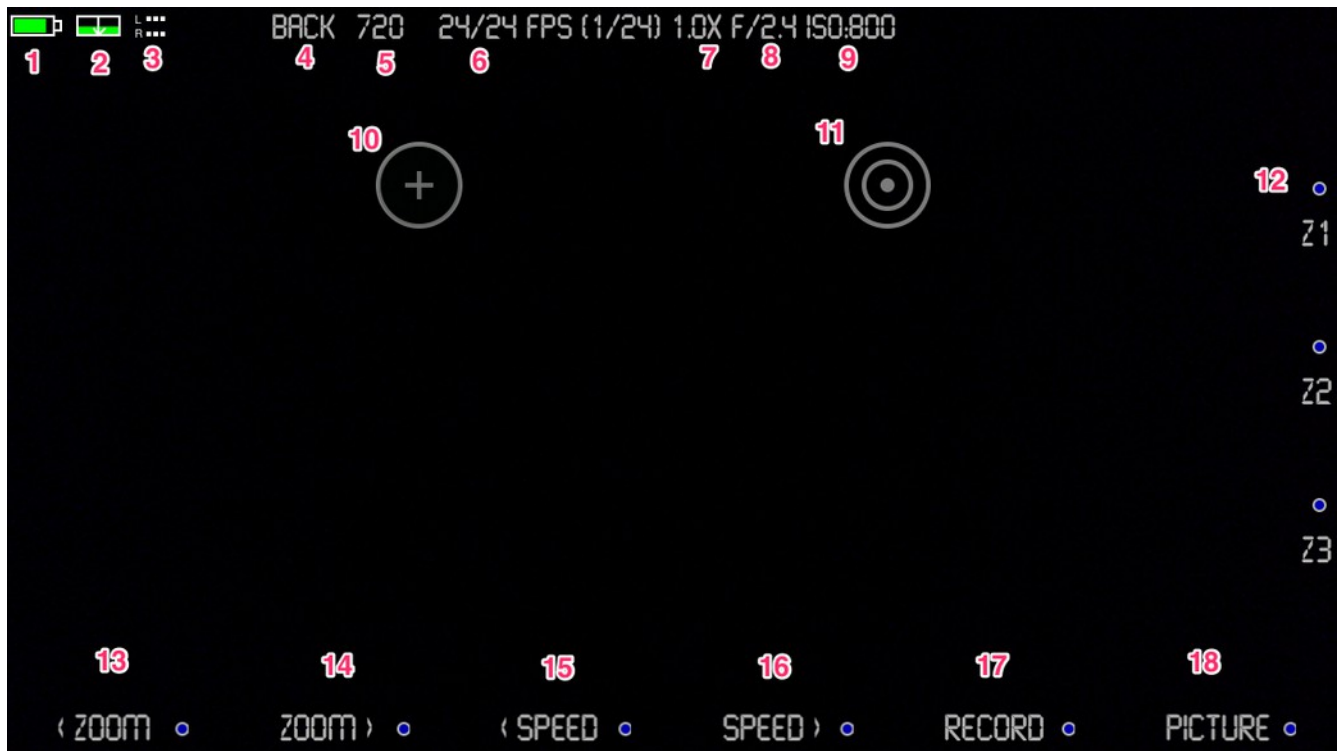
Cloud Capture Documentation

1.0

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Main Camera View



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Frame Rate Indicators

22/24 FPS (1/24)

This display shows the currently observed frame rate, the requested frame rate and the camera shutter speed. Should too many filters be enabled while the resolution and frame rate are at high values, the camera will not be able to process all of the data in sufficient time to keep up. This will be shown as an observed frame rate being less than the requested frame rate and a message will be displayed:

LOW FRAME RATE: REDUCE LOAD/RESOLUTION

Control Screen

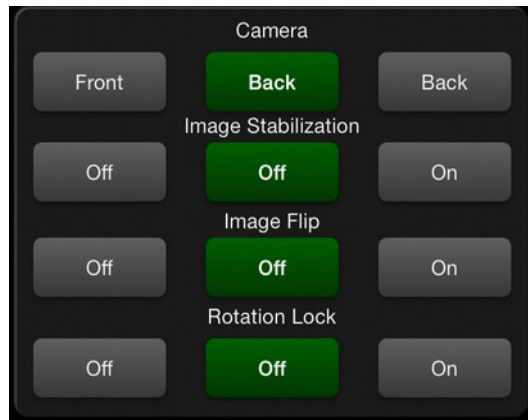


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| 1) Video Preview | 10) Exposure and White Balance |
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| 3) Audio/Video Pipeline | 12) Torch |

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- 14) Image Effect Filter Options
- 15) Color Control Filter Options
- 16) Chroma-Key Filter Options
- 17) Titling Page Options
- 18) Saved Preset Options

7) Camera Controls



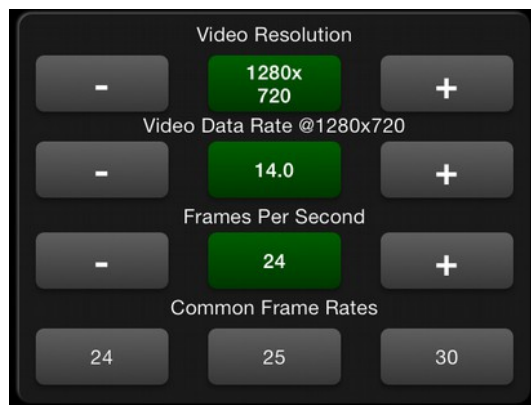
Camera – Select front or back camera

Image Stabilization – When enabled, the camera will reduce the field of view and continually adjust the frame within it to minimize unstable motion effects.

Image Flip – Used to flip an upside-down image appearing from lens adapter attachments.

Rotation Lock – Lock the ability to rotate from the current orientation. Rotation is automatically locked while recording.

8) Resolution and Frame Rate



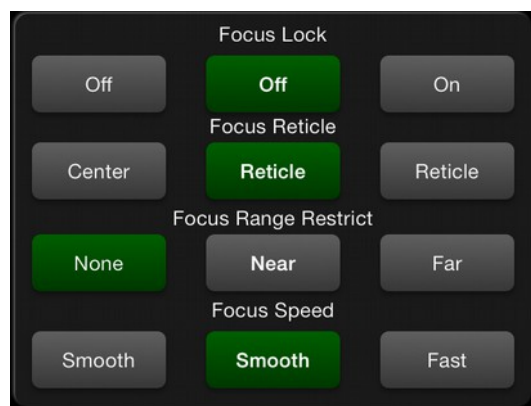
Video Resolution – Higher resolutions use more disk space and processing power.

Video Data Rate – Adjust the rate to increase image quality or decrease space requirements.

Frames Per Second – The rate at which the camera captures images for storage into a video clip.

The most common frame rate for video is 24 fps.

9) Focus



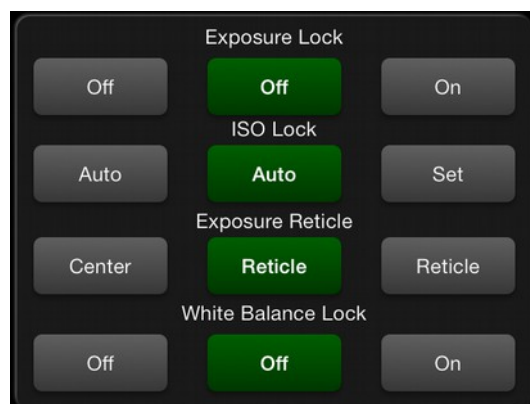
Focus Lock – Lock the focus mechanism at the current state.

Focus Reticle – The on-screen focus reticle can be positioned to cause the camera to focus on a particular area.

Focus Range Restrict – Restricting the focus to near or far will reduce the amount of focusing attempts when filming moving scenes.

Focus Speed – Set to smooth for video to avoid the large focus changes that the fast method employs.

10) Exposure and White Balance



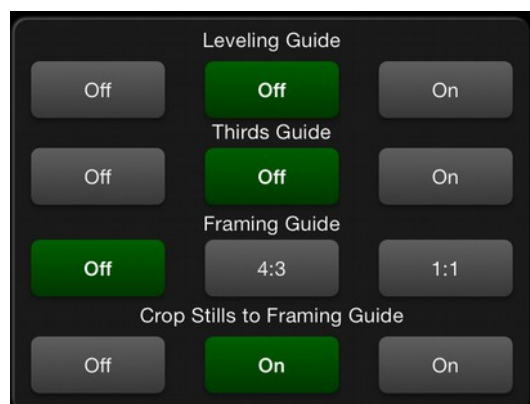
Exposure Lock – Lock the exposure mechanism at the current state.

ISO Lock – Set the current ISO state. The camera will prompt to adjust lighting to return to that setting when the camera is reset.

Exposure Reticle - The on-screen exposure reticle can be positioned to cause the camera to look at a particular area for exposure level.

White Balance Lock – Lock the white-balance setting at the current state.

11) Framing and Leveling Guides



Leveling Guide – An on-screen guide that shows the current position of the camera relative to the horizontal axis.

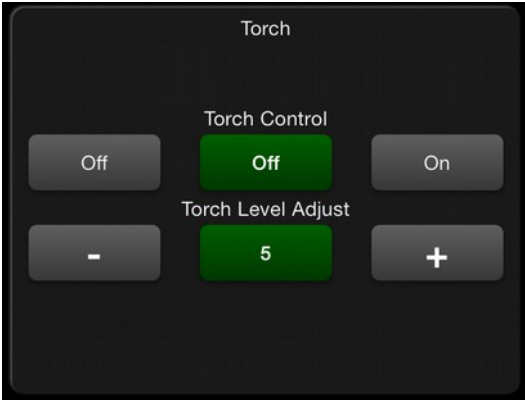
Thirds Guide – Displays a 3x3 grid overlay on the screen.

Framing Guide – Displays two vertical lines at 4x3 or 1x1 on the screen.

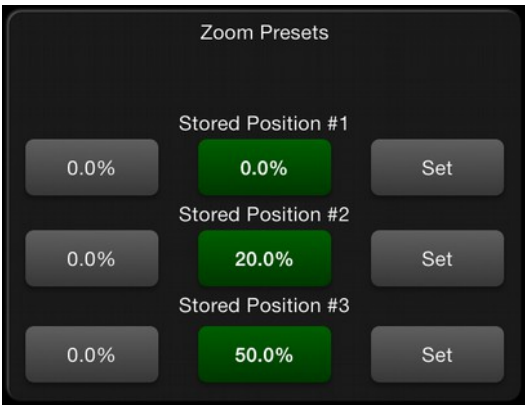
Crop Stills to Framing Guide – When enabled,

	stills will be cropped to the guide positions.
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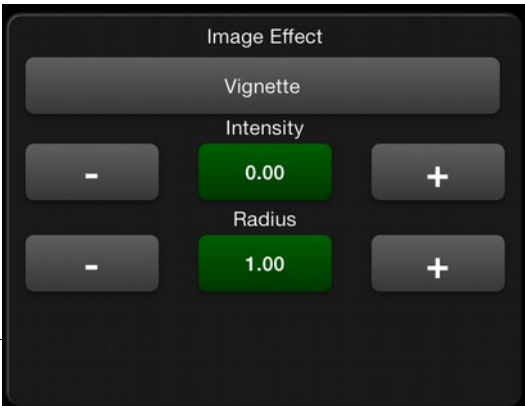
12) Torch

	<p>Torch Control – Light or Extinguish the torch.</p> <p>Torch Level Adjust – Adjust how much light the torch emanates.</p>
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13) Zoom Preset Setup


	<p>Stored Positions – The settings correspond to the zoom buttons on the main screen (#12 in main screen depiction.)</p> <p>Pressing “Set” stores the current zoom position into the corresponding preset.</p> <p>Pressing “0.0%” stores a fully zoomed out position into the corresponding preset.</p>
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14) Image Effect Filter Options

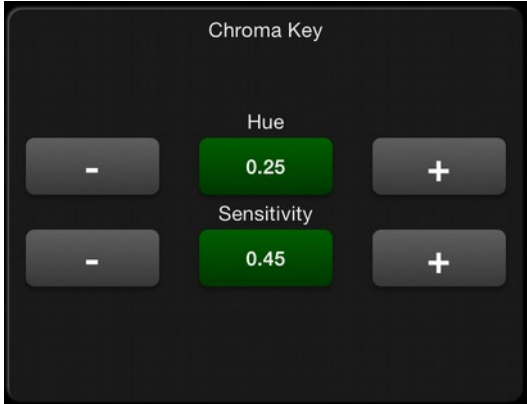
	<p>Image Effect – Select an effect from the list that opens when the button is tapped.</p> <p>Each effect may have zero or more options that can be adjusted to modify the effect.</p> <p>In the example, the “Vignette” filter allows the Intensity and Radius of the effect to be adjusted.</p>
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15) Color Control Filter Options

	<p>These filters are intended to improve a poorly lit scene.</p> <p>Tap the “-” button to reduce the value. Tap the “+” button to increase the value.</p> <p>Tap the green button to return to the default value.</p>
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16) Chroma-Key Filter Options

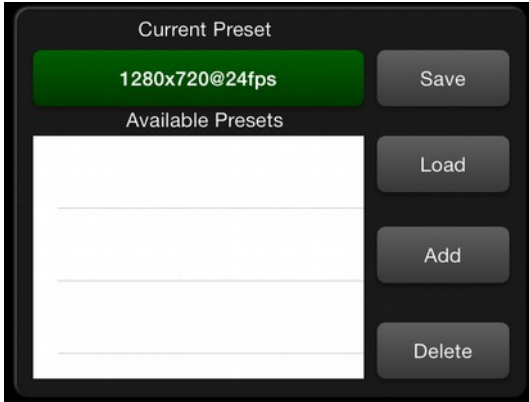
	<p>This filter is used to replace the background in the video with an image taken from your camera roll.</p> <p>Quality output requires a uniform green or blue background and attention to lighting requirements.</p> <p>Adjust the hue to change the color that is replaced.</p> <p>Adjust the sensitivity to match your lighting</p> <p>See the pipeline screen to supply the background image.</p>
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17) Titling Page Setup

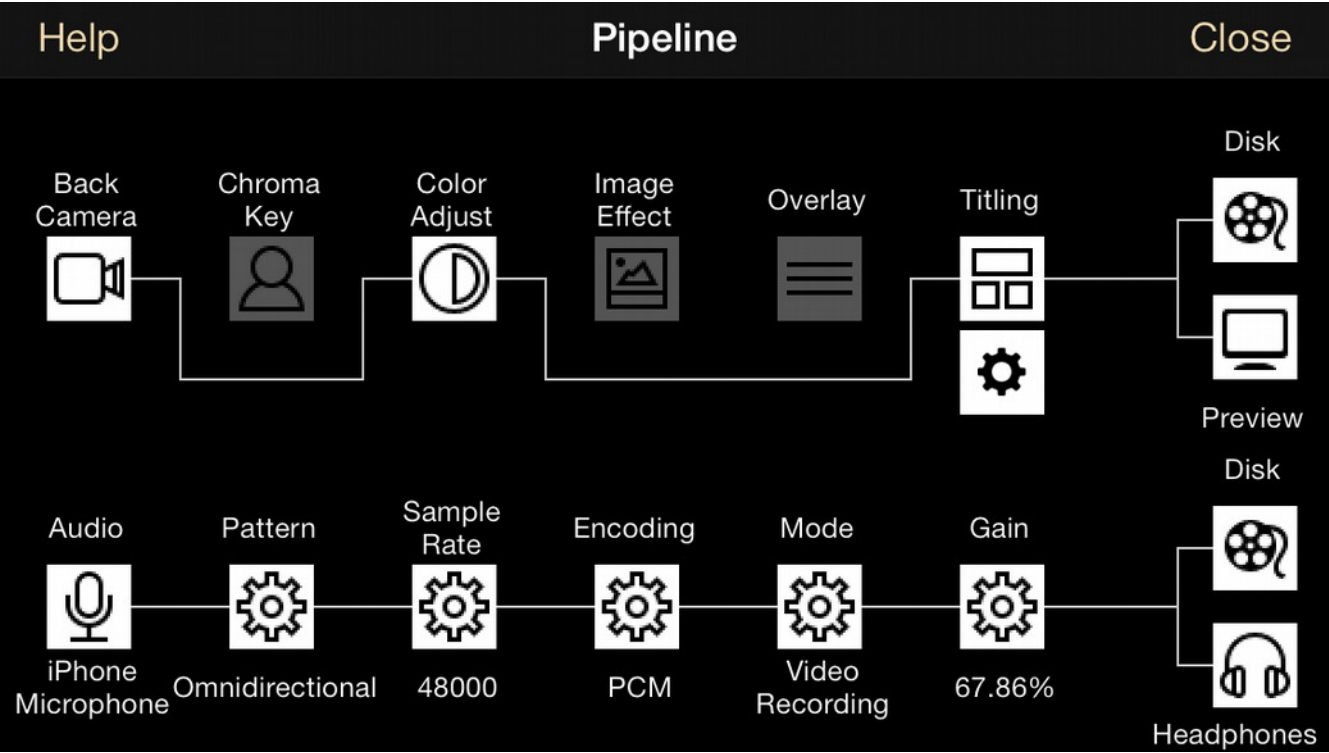
	<p>The values in the following fields are used to create a custom title page at the start and/or end of your clip.</p> <p>See the pipeline screen to create custom title pages.</p> <p>The Take option will be increased each time a</p>
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	recording is made. Tap the green button to reset to 1.
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18) Saved Preset Options

	Tap “Save” to save the current settings to the current preset. Tap a listed preset, then tap “Load” to load that preset. Tap “Add” to create a new preset using current settings and make it the current preset. Tap a listed preset, then tap “Delete” to remove that preset.
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Audio/Video Pipeline



This screen depicts two paths, one for video and one for audio.

For the video path, various filters may be added and removed from the pipeline, by tapping on them. The visual depiction will update to show the path video frames will take.

Tapping the “Camera” provides the ability to switch the camera between regular and fast-capture mode, which allows 1280x720 capture at up to 60 fps. The regular mode supports up to 1920x1080 at 30fps. Note that in all cases where you are not requiring > 30 fps, the regular mode should be considered the superior choice.

You may also edit the background for the chroma-key feature, choose an overlay matte and edit custom titling pages by tapping the gear icon under the corresponding feature.

For the audio path, the various entries allow customization of how audio is handled.

The “Audio” entry allows selection of the input devices available on your device as well as various accessories to be used as the sound source for your recordings.

The “Pattern” entry allows selection of a polar pattern for input devices that contain processing circuitry for this feature. This is employed to cancel unwanted noise.

The “Sample Rate” entry allows the choice of how much audio data is collected, which affects quality and disk space requirements.

The “Encoding” entry allows the selection of PCM or AAC output in recorded movie files. AAC quality is also adjusted here.

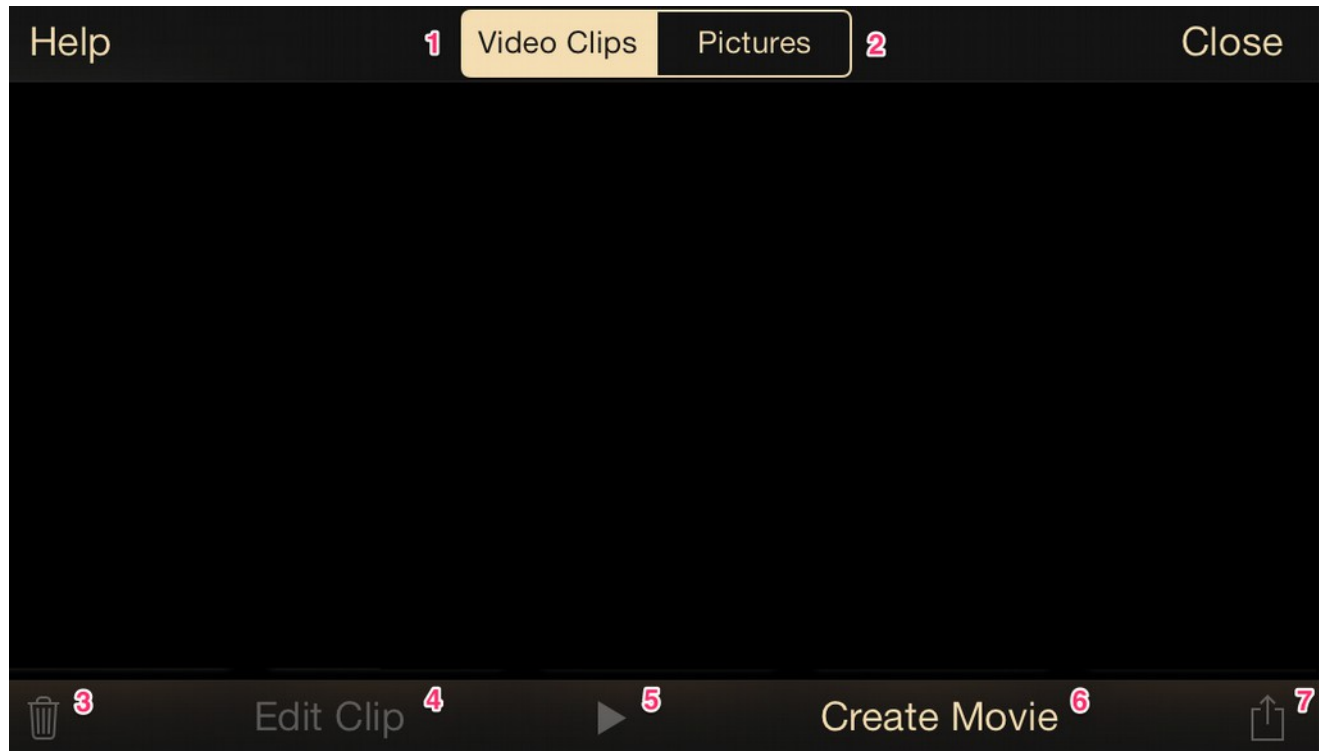
The “Mode” entry allows selection of “Default”, “Measurement” and “Video Recording” modes. This affects signal processing of incoming audio. Use “Measurement” mode to disable audio processing features.

The “Gain” mode allows adjustment of incoming audio level.

The “Disk” entry toggles between recording sound and not recording sound.

The “Headphone” entry toggles routing a copy of incoming audio out to the headphones or other connected audio output device (not all device types are supported at this time.)

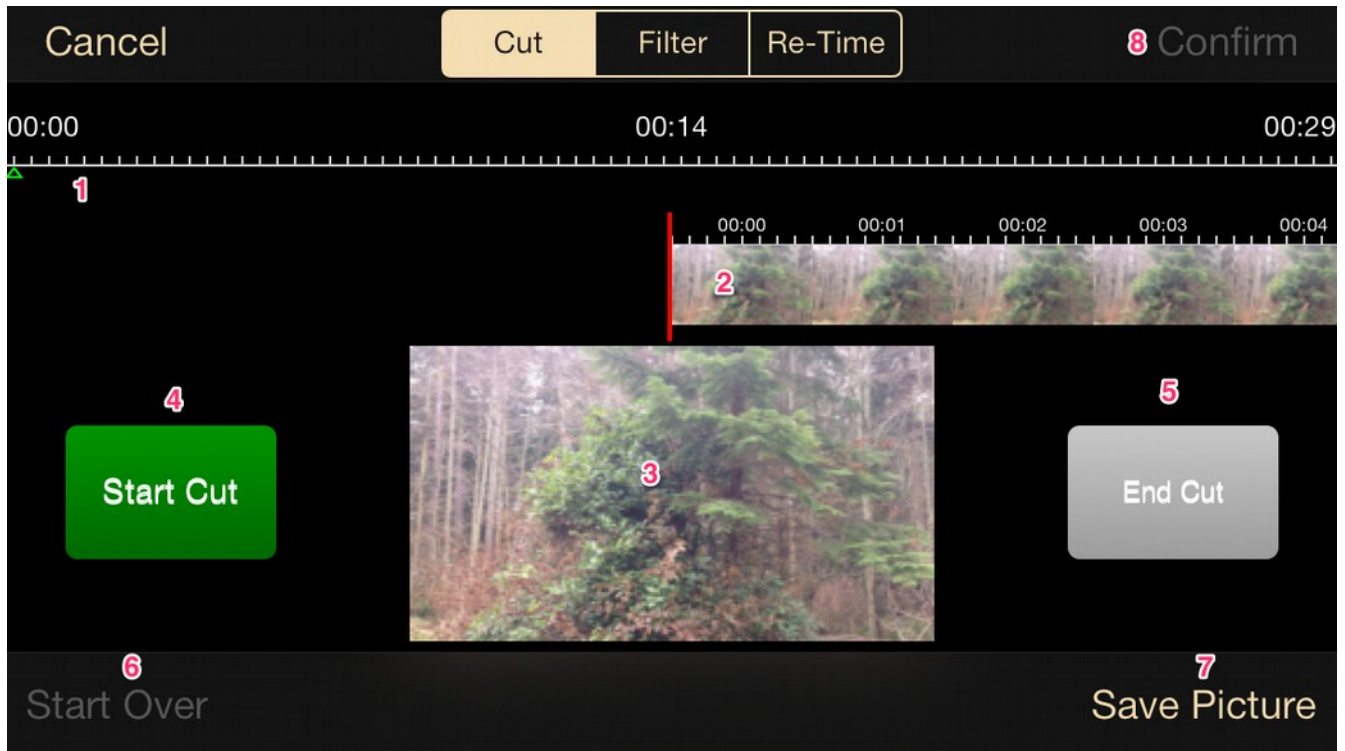
Library



- 1) Display Video Clips
- 2) Display Pictures
- 3) Trash – Select one or more clips from the App Library to permanently delete them. To delete items from the camera roll or photo albums, use the Photos app included with iOS 7.
- 4) Edit Clip – Select one clip and then tap this button to edit it.
- 5) Play – Select one clip and then tap this button to cause it to play.
- 6) Create Movie – Tap this button to turn an assemblage of clips into a movie.
- 7) Share – Select one or more clips and tap this button to share them.

Note: If the app does not have permission to access the Camera Roll/Photo album, the picture feature will not be available and clips stored in the camera roll will not be shown. See the setup screen for information on permissions.

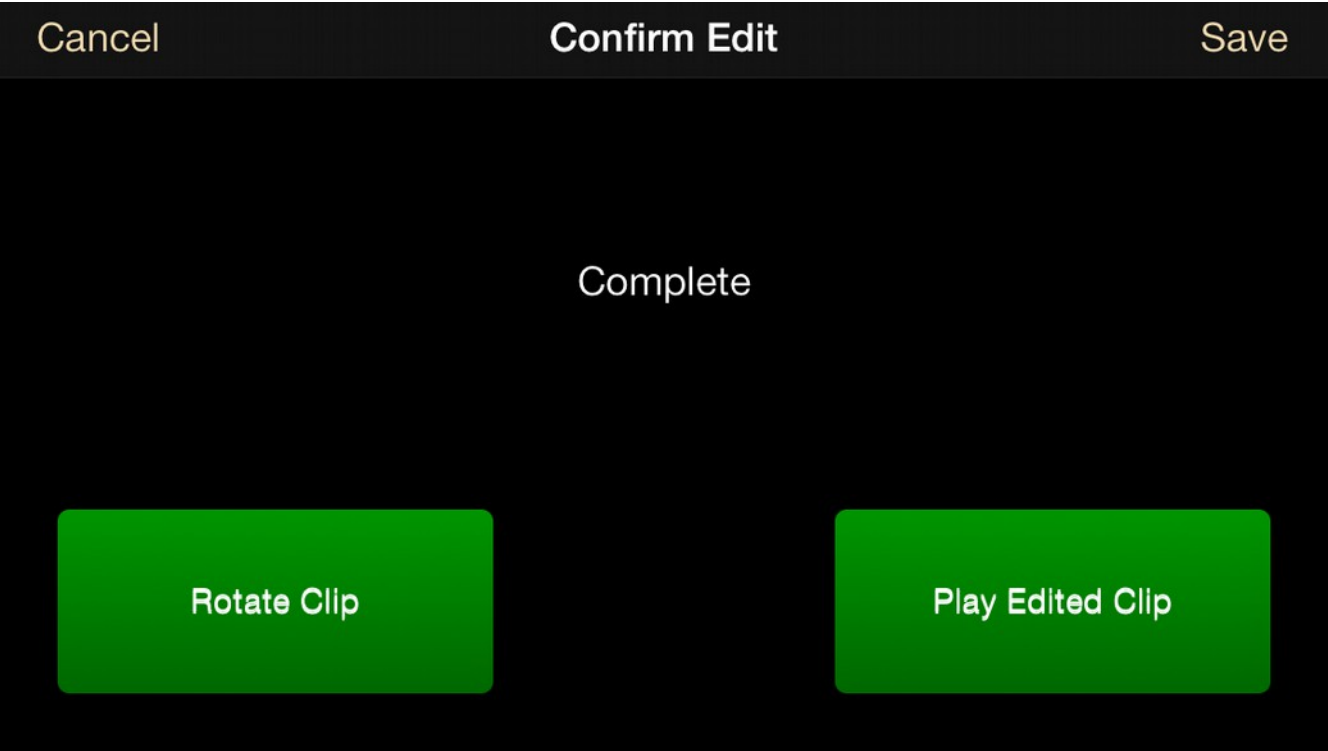
Cut



- 1) Scrubber Bar – Tap to jump to the section of the clip corresponding to the time tapped.
- 2) Time Line – Scroll the time line to select a start or stop position at the vertical red line in the center.
- 3) Thumbnail – Shows a larger version of the current clip position. Swipe left/right in the thumbnail for more precise adjustment.
- 4) Start Cut – Begin a cut operation.
- 5) End Cut – End a cut operation. The cut will be shown as a darkened area in the time line.
- 6) Start Over – Clear all cuts
- 7) Save Picture – Save a picture of the current clip position to the camera roll.
- 8) Confirm – Show the confirmation screen and process the cut operation.

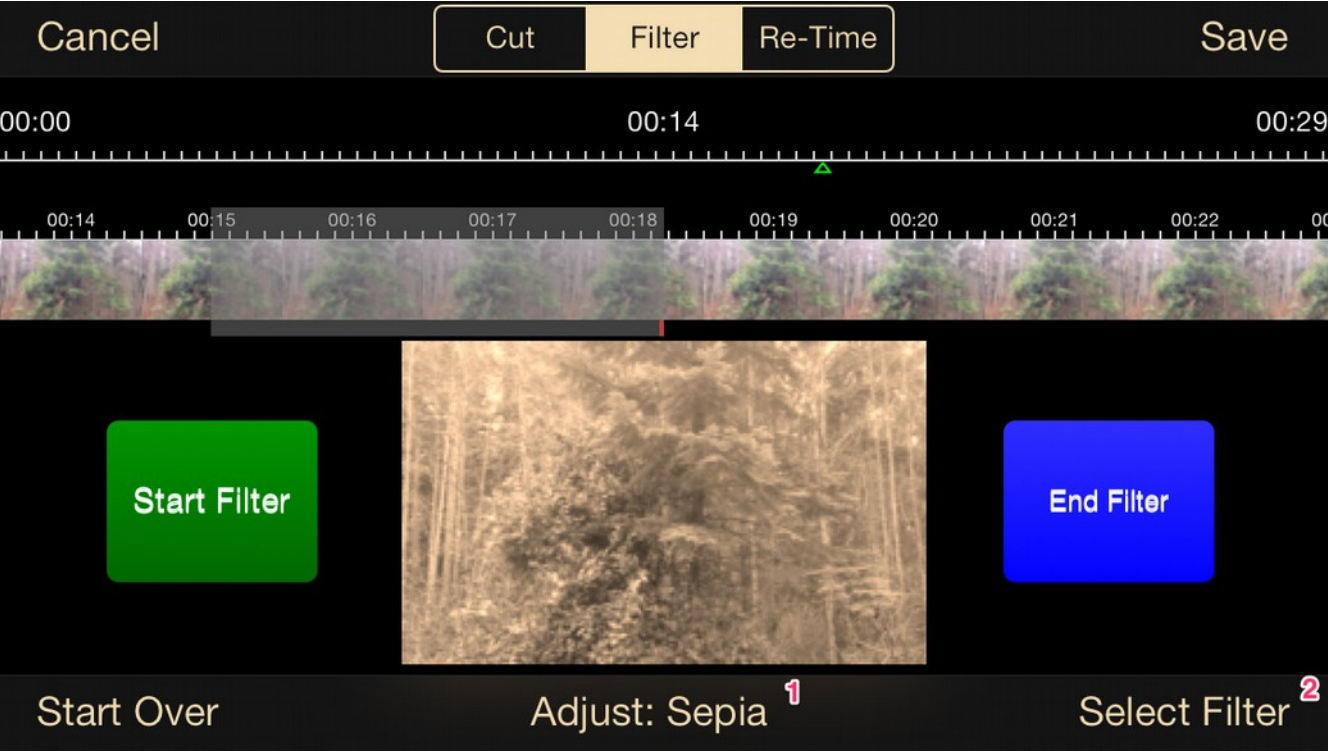
- You may repeat the Start Cut/End Cut process to select multiple regions to cut.

Cut Confirmation



Once processing is complete, the confirmation screen allows you to preview the clip, rotate and re-encode the clip, or to cancel (and return to the cut screen) or save (and return to the library screen.)

Filter



- 1) Filter attribute adjustment
- 2) Filter Selection

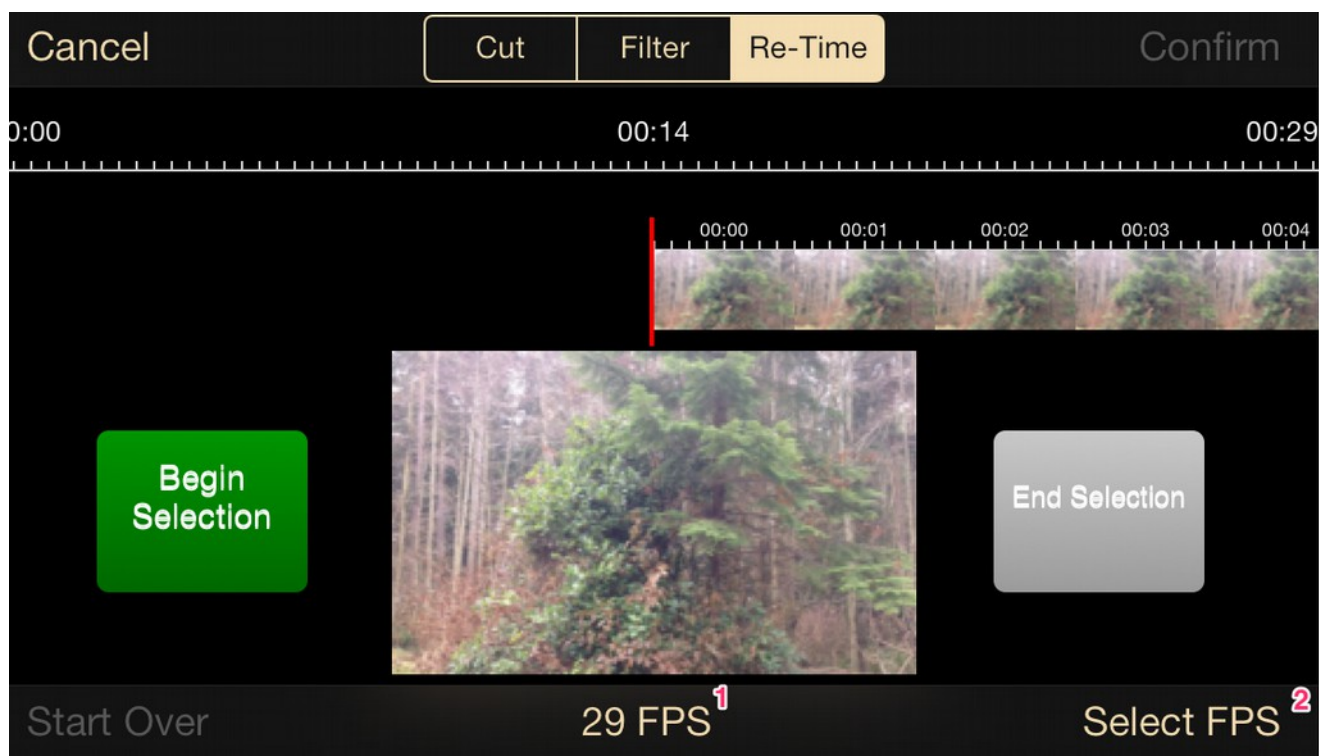
The Filter screen operates in the same manner as the cut screen, in that areas of the clip are selected.

For filtering, select a filter and modify it's attributes, then select an area of the clip to apply that filter to.

You may apply multiple filters and multiple selections on the timeline; though none may overlap.

Once complete, tap “Save” to process the clip.

Re-Time



- 1) Currently selected frame rate
- 2) Select frame rate

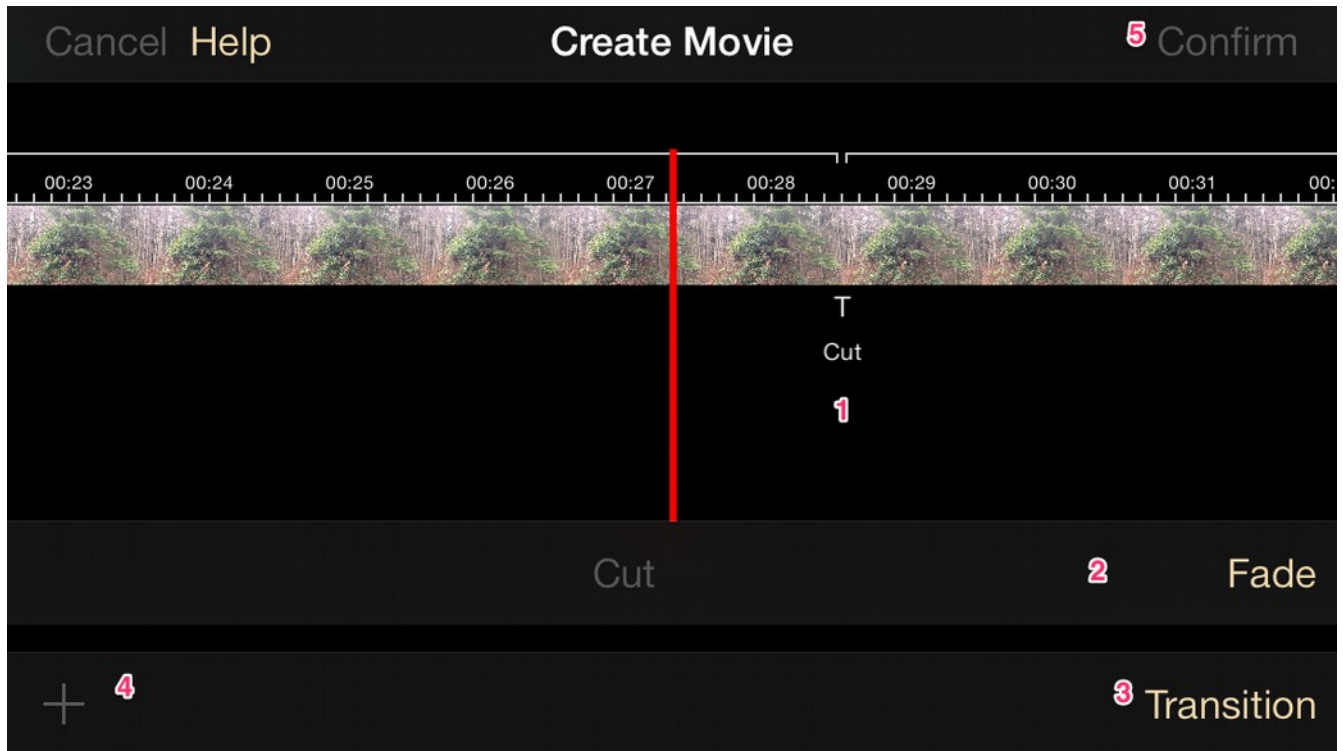
The Filter screen operates in the same manner as the cut screen, in that areas of the clip are selected.

For re-timing, select a frame rate, then select an area of the clip to apply that frame rate to.

You may combine frame rate operations onto the time line.

When complete, tap “Save” to process the re-time. You will be presented with a confirmation screen allowing the options of “Play”, “Cancel” and “Save”.

Create Movie



- 1) Transition Indicator
- 2) Transition Bar
- 3) Transition Mode
- 4) Add Clip(s)
- 5) Confirm

Creating a movie is accomplished by assembling a set of clips, assigning transitions between them and then processing into a completed movie.

Tap the “+” to add additional clips. Note that you may add the same clip more than once.

Tapping the “Transition” button will enter transition mode. Drag the timeline between clips to set the transitions by tapping the appropriate transition on the transition bar.

Once complete, tap “Transition” again to exit transition mode and tap “Confirm” to proceed to the confirmation screen and process the movie.

Once processing is complete, you may review the movie with the “Play Movie” button, cancel the operation with the “Cancel” button or save the completed movie with the “Save” button.

Setup

The screen is divided into categories:

About – Shows version, license status, credits and the buy/restore license buttons.

Permissions – Shows status of the Microphone, Photo Album/Camera Roll and Location permissions.

Clips – Allows configuration of the movement of clips from the App Library to the camera roll as well as whether or not to store GPS location information in recorded clips.

Interface – Allows the ability to blank the video preview and/or user interface after a period of inactivity as well as configuring the location of the zoom preset buttons (Main screen #12.)

Help and Support – Contains options to view this help file, access the app website or send the developer a request for assistance.

iPad User Interface

The iPad user interface closely matches the iPhone user interface.

There are some additional features and differences:

- Rotating the device to portrait when not recording will cause the library interface to appear. To avoid this, use the rotation lock feature in the controls screen, camera options.
- The location of controls on the controls screen is customizable. Press and hold on the control bar, button bar, controls pane or video preview window to drag it to a new position. Note that the video preview window can also be resized with a pinch gesture.

Release Notes

Known issues in the 1.0 release:

- 1) Returning from suspend, the camera may not show the zoom controls. Tap the screen to go to the control screen, then tap the preview to go back to the main screen. This will cause the interface to update and show the zoom controls.
- 2) iPad Mini fast-capture mode is capable of 60 fps only when the device is positioned with the home button is on the right. Recording when the home button is on the left will result in ~50fps recording.