

COLLABRACAM™

User Guide

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Welcome to CollabraCam!

Have you ever shot a video with friends using multiple cameras but after you were finished, collecting the footage was a huge hassle and editing took forever? Have you ever wanted to direct a video with multiple cameras and edit live on-the-fly, while all the video clips were compiled for you, so post-production took little or no time at all? Now you can with CollabraCam!

CollabraCam is a multicam video production iPhone app with live editing and director-to-camera communication. CollabraCam provides a quick, easy and fun way to engage in multicam video production with your family, friends or colleagues. You and your crew will produce exciting, dynamic videos with minimal post-production.

Direct your camera crew over local Wi-Fi and choose the shots to record and edit your video in real-time. Monitor up to four streaming iOS cameras and select the best camera to queue for the next shot. Silently prompt your camera operators to pan a shot, dolly in for a close-up and more.

Video clips are recorded on the cameras. When you end the production and save your session, the cameras transfer the clips in the order shot and the movie is assembled with automatically generated credits for you and your crew.

Your movie can be viewed in the app and exported to your Camera Roll in three sizes. Video clips can also be exported to your Camera Roll to edit in a video editing app or saved via File Sharing in iTunes to edit on your computer ... or if you've exported clips to your Camera Roll but not had a chance to edit in an app yet, then open iMovie on your computer, plug in your device and it will automatically be recognized as a camera and ask to download the clips. With minimal effort and time, you can assemble, trim clips and add transitions and music to complete your movie's final cut.

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General Usage Tips

- After installing or updating CollabraCam, it is advised to perform a hard reset, especially with iPhone 3GS.
- To ensure consistent video and audio quality it is highly recommended that all of the cameras used in a session are all of the same type (all iPhone 4, iPod Touch 4G, or iPad 2).
- CollabraCam should only be used on a local high-speed Wi-Fi network (G or N) on the same wireless router or hub. If using CollabraCam in an area where there are several wireless networks available, network activity and connectivity may suffer from Wi-Fi channel pollution.
- CollabraCam requires a wireless network, but the network does not require an internet connection. A network can be broadcast with a corded wireless router, a battery powered wireless router, an ad-hoc (computer-to-computer) wireless network, a mobile HotSpot device or with iPhone HotSpot*.
- To ensure the best experience it is highly recommended all of the devices are fully charged or have a significant charge. If a camera receives a low battery warning during transfer of clips to the director, it may prevent transfer of the clips.
- If there are several apps running in the background, it is advised to end them on each device to free up memory before starting a session.
- If Auto-Lock is enabled, it is advised to turn it off to ensure your device does not go idle during a session.
- If Bluetooth is enabled, it is advised to turn it off to ensure the highest possible transfer rate during a session.
- To avoid disconnections due to receiving a phone call or a text message, it is advised to put your device into airplane mode and manually turn Wi-Fi on before starting a session.

* With Hotspot for iPhone, the director device should be the HotSpot.

The Main Menu

The Main Menu is the starting point for your collaborative creativity and contains the following buttons:

- **Director** - to direct a live multicam session
- **Camera** - to participate as a camera operator in a session
- **Sessions** - to view or export a movie or clips, to manage your sessions (delete or duplicate), to resume a previously saved session or to view, export or delete clips saved as a camera operator
- **User Guide** - to view the User Guide (PDF), to open the User Guide in iBooks, open the User Guide in an installed 3rd party app or to print the User Guide

The tool bar contains the following buttons:

- **Settings** - to enter a user name
- **Information** - to view information about CollabraCam



Name Settings

Enter your name as you would like it to appear in the credits which are automatically generated at the end of each session. Tap the user name text field to access the keyboard. After you enter a name*, tap the Back button to exit the Settings and return to the Main Menu.

The name you enter in the Settings will also be displayed when connecting to a director at the start of a session. You can revisit the Settings anytime you want to change your name or enter a nickname prior to the start of a new session. You can also access CollabraCam settings in the iOS Settings app.



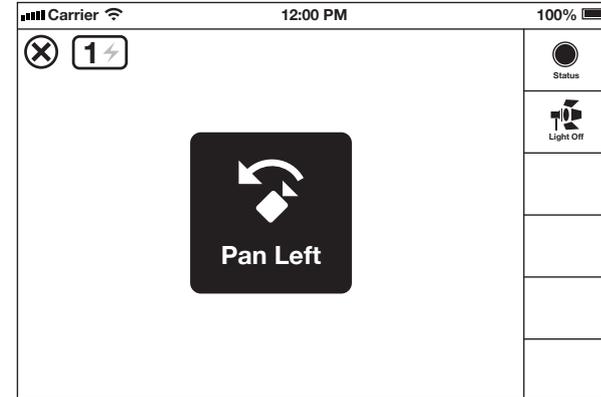
*If two or more users have input the same exact name only one user will be displayed when connecting to a director as a camera at the start of the session.

The Camera

The Camera contains a video display with a quit button to exit the Camera in the upper left. Once a director connects to a camera, a camera number and light indicator is displayed adjacent to the Quit button.

The status light in the upper right is initially unlit and is simply labeled “Status.” When a director queues a camera for standby, the status light turns blue and the label changes to “Standby.” When a director starts recording on a camera, the status light turns red and the label changes to “Recording.” The button below the status light turns the camera’s light on or off. The light indicator (lightning bolt icon) is transparent black when the light is off and solid black when the light is on.

A director can send camera move or angle cues to any camera. When a director sends a camera cue, the camera cue is overlaid in the center of the video display of the receiving camera.



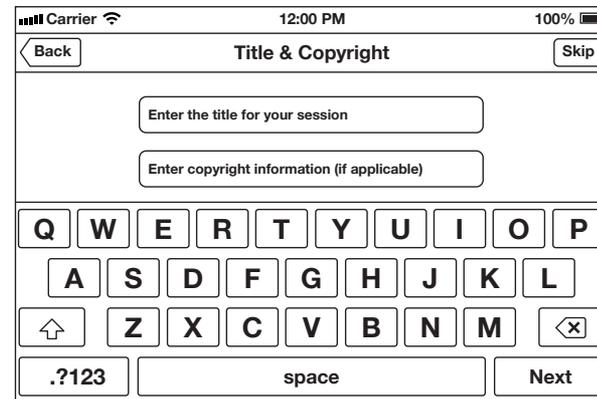
Camera Status Light Colors and Labels



Title and Copyright

When you choose to be the director, you are first prompted to enter a title and copyright information. Entering a title is highly recommended because it is used to name the directories created to store the clips for the director and cameras. The title is displayed in the credits and used to name the file folder via File Sharing in iTunes. If a title is not entered, “Untitled” will appear as the default. Tap the title text field to access the keyboard. Once a title is entered, tap the Next button on the keyboard to proceed to the copyright text field or tap the Skip button to immediately advance to the Director.

Entering copyright is optional. Only copyright holder information should be entered, copyright symbol “©” and the current year are automatically generated. If you choose not to enter copyright information, there will be no copyright in the credits. Once the copyright information is entered, tap the Done button (the Next button changes to the Done button) on the keyboard to advance to the Director.

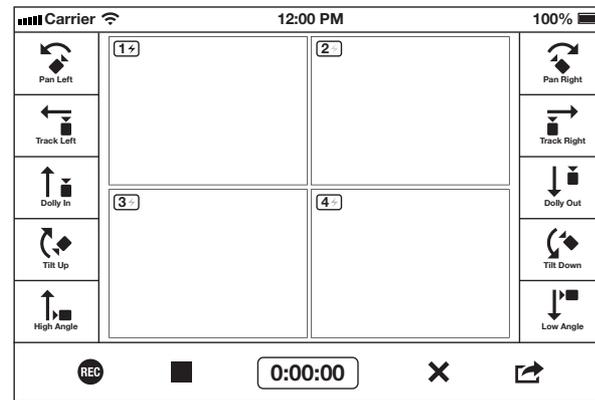


The Director

The Director contains four camera views with camera numbers and light indicators (lightning bolt icons), camera cue buttons along the left and right sides of the interface and a tool bar at the bottom which contains the following buttons and display from left to right:

- **Record** - to start/switch recording to a camera
- **Stop** - to stop recording during a session
- **Counter** - to display the total record time in H:MM:SS*
- **Quit** - to quit the session in progress without saving
- **Action** - to end and save a session

A director can view, record and edit streaming video from up to four cameras in real-time during a session. A director can also send camera move or angle cues to the camera operators with the camera cue buttons. Silent communication allows the director to be close to the action.

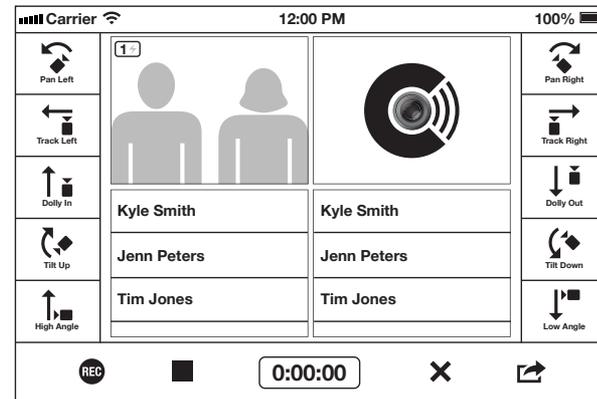


*If resuming a session the counter will display the record time where the session left off.

Connecting to Cameras

The camera views initially display lists which populate with the names of camera operators on your network. Each of the lists populates with the same user names. (See lower camera views in the example.) The lists can scroll to reveal all of the available cameras on your network.

When a name is tapped in one of the lists the CollabraCam logo is displayed and the tapped name disappears from the other lists to ensure that camera cannot connect twice. (See upper right camera view in the example.) When connected to a camera, real-time streaming video* from that camera is displayed. (See Camera 1 view in the example.) A session can be started with less than four cameras and additional cameras can be added during a session.



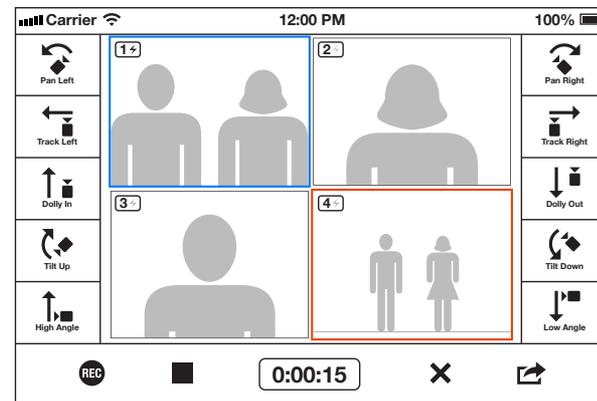
*A director does not receive audio during a session. However, audio is recorded and included in movie playback, an exported movie and exported video clips.

Live Editing

A director can begin a session once connected with up to four cameras. To begin recording, tap a camera view to highlight it with the standby border, then tap the Record button to start recording on that camera and the standby border changes to the recording border.

To queue a standby camera, tap the desired camera view to highlight it with the standby border. Tap the Record button again to start recording on the standby camera and the standby border changes to the recording border.

If recording is stopped with only a recording camera, the recording border reverts to the standby border. If recording is stopped with a standby camera queued, the recording camera stops recording and is no longer highlighted with a border, while the standby camera view remains highlighted with the standby border.



Camera View Status Border Colors



Standby

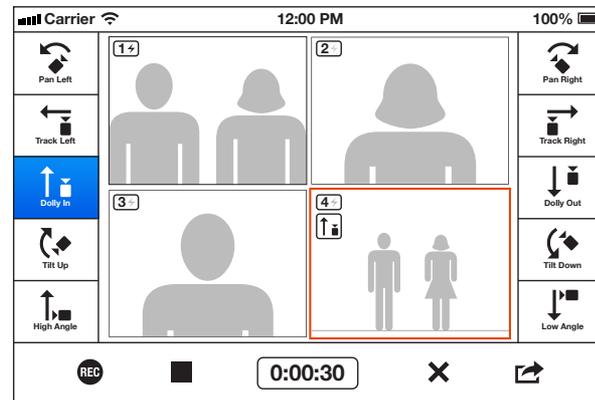


Recording

Communicating with Cameras

A director can communicate with any camera by sending camera move or angle cues during a session. Tap a camera cue to enter communication mode. The cue will remain selected until a camera view is tapped to send the cue. The camera receives the cue instantly as an icon overlaid in the center of the video display. Additionally, a director receives notification the cue was sent with a small icon displayed under the camera number and light indicator of the corresponding camera view. (See Camera 4 view in the example.)

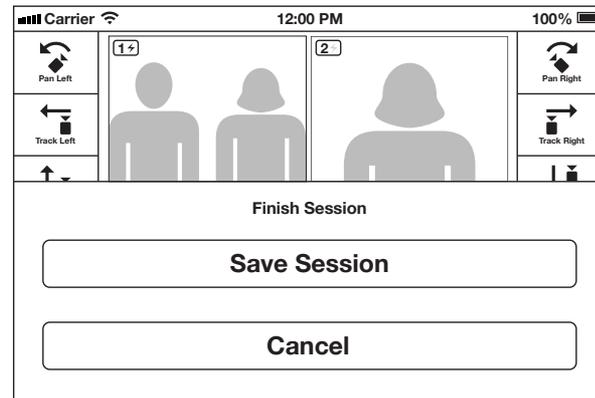
If a cue is sent to a camera that is not on standby or recording then that camera will also be placed on standby when the cue is sent. If a cue is tapped and highlighted it can be tapped again to unselect it.



Finishing a Session

Video clips are transferred from the cameras to a director after the session is saved. Tap the Action button to finish a session or save to resume a session at a later time. Although a session can be saved to resume at a later time, clips that were shot will still need time to be transferred. The Action button displays two choices, Cancel and Save Session. Tap Cancel to continue a session in progress. (If recording was not stopped before the Action button is tapped, the currently recording camera will continue to record.)

Tap Save Session and the video clips will begin to transfer from the cameras. It is very important that camera operators do not exit the camera until the transfer is complete. Once the clips are transferred and the movie is assembled, the Individual Session interface is displayed to a director.



Individual Session

An Individual Session is displayed to a director after clips have transferred from the cameras and the movie has been assembled. An Individual Session contains the assembled movie which can be viewed in the app. An Individual Session also contains the following buttons:

- **Sessions** - to exit to Sessions
- **Resume Session** - to resume the session as the director
- **Play** - to start the movie player

The tool bar contains the following buttons from left to right:

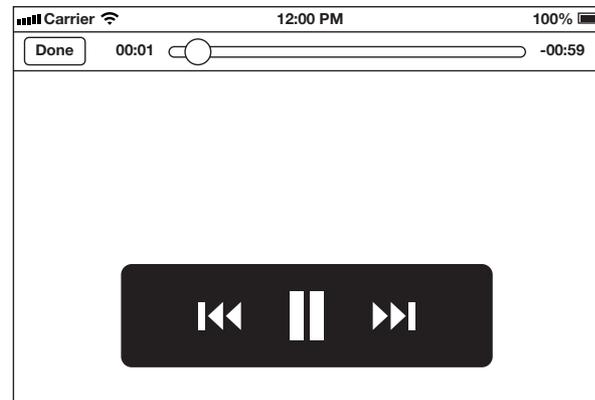
- **Reel** - to export the rough cut movie to the Camera Roll
- **Clips** - to export video clips to the Camera Roll
- **Action** - to delete or copy the session



Viewing a Movie

To view a movie, tap the play button in the Individual Session interface. (See example, page 11.) Once loaded, the movie will begin playing automatically. Rewind, Pause (pause toggles to play) and Fast Forward buttons are displayed, but will fade out after the first three seconds of playback. Tap the movie to access the video control buttons again.

The movie timeline at the top of the screen displays the length of time the movie has played on the left and the time remaining on the right. The timeline can be scrubbed by tap-dragging the play head in the timeline. Scrubbing the time slider will pause the movie; tap play to resume playing the movie. Tap the Done button to exit the movie player.

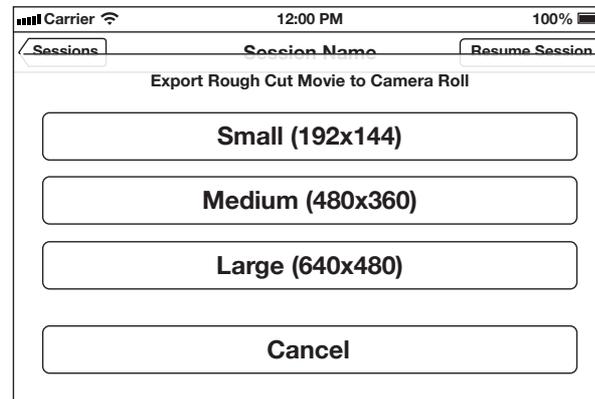


Exporting a Movie

Tap the Reel button in an Individual Session to export the movie to the Camera Roll. (See example, page 11.) The Reel button displays a Cancel option and three video export sizes:

- Small (192x144)
- Medium (480x360)
- Large (640x480)

Tap Cancel to dismiss the export action sheet. Tap a video size to export the movie to the Camera Roll. When a video size is selected, the movie will begin to export and a progress bar is displayed.



Exporting Video Clips

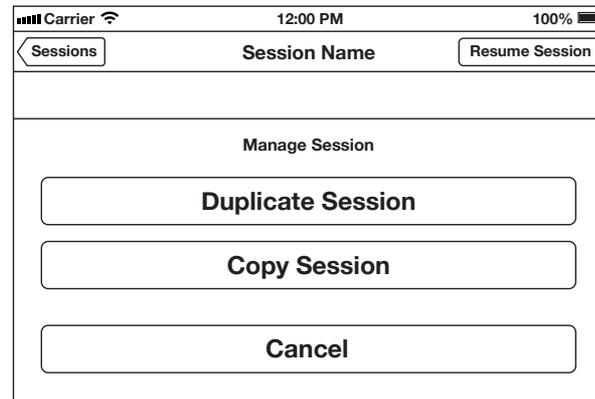
Tap the Clips button in an Individual Session to export the video clips to the Camera Roll. (See example, page 11.) The Clips button displays two choices, Cancel and Export Clips. Tap Cancel to dismiss the export action sheet. Tap Export Clips to export the video clips to the Camera Roll. Video clips are saved sequentially to the Camera Roll, ready to assemble, trim clips and add transitions and music in a video editing app.

Video clips are also accessible via File Sharing in iTunes to easily assemble the clips in a video editing program on a computer. When syncing a device, scroll down to File Sharing under apps, select CollabraCam, select the desired file folder to save and click “Save to...” to choose where to save the files on the hard drive.



Managing a Session

Tap the Action button in an Individual Session to delete or duplicate a session. (See example, page 11.) The Action button displays three choices, Cancel, Delete Session and Copy Session. Tap Cancel to dismiss the manage session action sheet. Tap Delete Session to delete a session permanently and free up disk space. Tap Duplicate Session to save a copy before resuming a session. When duplicating a session the title and copyright information can be changed.



Sessions Interface

When the Back button is tapped in an Individual Session or the Sessions button is tapped in the Main Menu, Sessions are displayed. Sessions are split into two categories: Director and Camera. Director Sessions are displayed with a movie icon, session title, total run-time of the assembled movie, date and time of the session and file size. Camera Sessions list directories of clips and display the same information with the exception of the run-time, which is replaced with the total of clips in the directory.

Tap a cell in the Director Sessions to view the Individual Session. Tap a cell in the Camera Sessions to go into a subdirectory of clips from that session. Swipe across any cell to reveal a Delete button and tap to delete a full session, directory or an individual clip. Simply tap on the cell again and the Delete button will disappear. To exit the Sessions and return to the Main Menu tap the Back button.

Carrier		12:00 PM	100%
Back		Sessions	
Director			
	Product Launch Demo (H:MM:SS)		>
	MM/DD/YYYY 12:00 PM - 00.00MB		
	Super Soccer Game (H:MM:SS)		>
	MM/DD/YYYY 12:00 PM - 00.00MB		
	Moleman 3: Episode 1 (H:MM:SS)		>
	MM/DD/YYYY 12:00 PM - 00.00MB		
Camera			
	Cooking Live! (3 Clips)		>
	MM/DD/YYYY 12:00 PM - 00.00MB		
	Steve's Birthday Bash (5 Clips)		>
	MM/DD/YYYY 12:00 PM - 00.00MB		

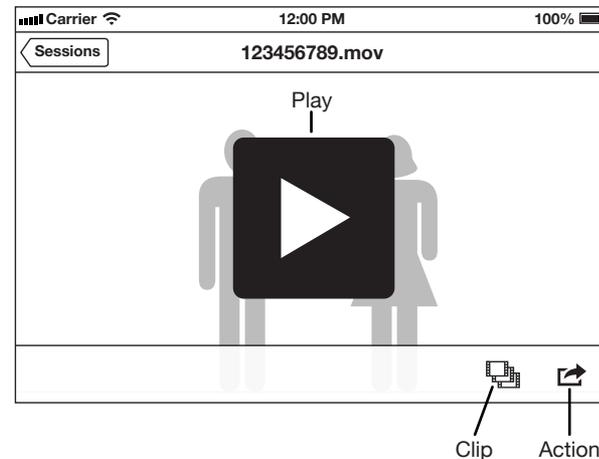
Individual Clip

Individual Clips are displayed to a camera operator after tapping on a clip in a subdirectory of the Camera Sessions. The Individual Clip interface contains a clip from a recorded session which can be played back in the app. An Individual Clip contains the following buttons:

- **Play** - to start the movie player (same as Viewing a Movie, see page 13)
- **Sessions** - to exit to Camera Sessions subdirectory

The tool bar contains the following buttons:

- **Clip** - to export the individual video clip to the Camera Roll
- **Action** - to delete the clip



CollabraCam FAQ

Q: How do I get iPhone 3GS to load the Camera?

A: iPhone 3GS may need a hard reset after installing the app. When you start the app, tap the Camera button, immediately push the Home button to quit the app, and then immediately restart the app to load the Camera interface.

Q: Why is video capture at 640x480 resolution, not HD?

A: 640x480 is currently the highest resolution to provide the best video capture frame rate while optimizing performance for multiple video streams to be received by the director.

Q: Why are there occasionally black frames at the beginning or end of video clips or in an assembled movie?

A: CollabraCam can be very processor and memory intensive when starting recording or switching recording cameras on-the-fly especially with older devices. If there is black at the beginning or end of a recorded video clip it is typically no more than a few frames. If you save clips to your computer and import them into iMovie '11, any black frames at the beginning of a clip will be eliminated. Any clip with black frames at the end will need to be trimmed.

Basic Video Terminology

Assemble: Joining video clips in the sequence in which they were shot in a video editing application.

B-Roll: Shots of secondary, supporting video clips.

Cutaway: A shot in a sequence momentarily disrupting the flow of action, usually to introduce an important detail.

Dutch Angle: A shot where the camera is angled so the framing of the camera's view is not parallel to the horizon.

Dolly: A Dolly-In moves the camera toward the subject and a Dolly-Out moves the camera away from the subject. A dolly shot creates a sense of movement through space.

Final Cut: A finished movie after post-production is complete.

High Angle: A shot taken from above a subject, creating a sense of “looking down upon” whatever is in the frame.

Low Angle: A shot taken from below a subject, creating a sense of “looking up to” whatever is in the frame.

Pan: Horizontal pivoting camera move, left or right, from a stationary position to follow action or reveal action off screen.

Post-Production: The period after a production has ended and the video is being edited.

Tilt: Vertical pivoting camera move, up or down, from a stationary position and height to follow action, contrast the difference in size between two subjects.

Reaction Shot: A shot of a subject listening while another subject's voice continues on the audio track.

Rough Cut: Initial assembly of video clips without attention to detail such as trimming and adding transitions and music.

Track: Lateral camera move aligned with a moving subject. Tracking should maintain a consistent distance from a subject.

Trimming: Deleting frames from the beginning or end of a clip.

Voice-over: Narrative dialogue over the onscreen action.

Notes

We appreciate your feedback because we made CollabraCam for you. If you have a support question, a bug to report, a feature to request or simply want to share your experience with us or a link to a video you produced with CollabraCam ... please send your feedback to: support@collabracam.com



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