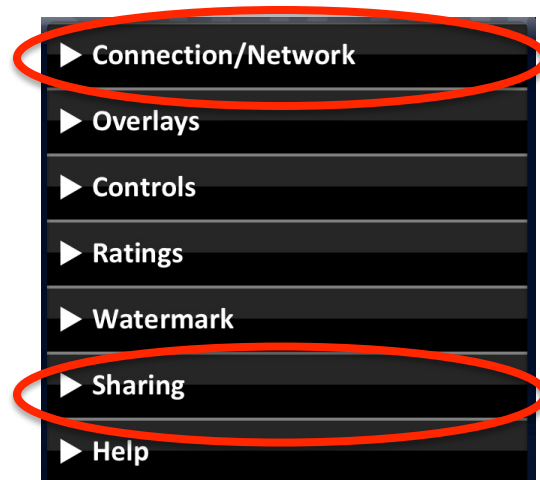


# CamRanger

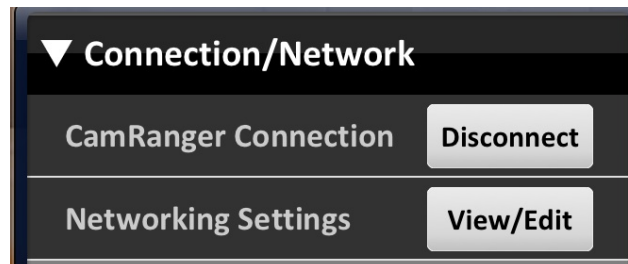
## Network Bridging and Sharing Instructions

Two new CamRanger app features include Network Bridging and Sharing, which are accessible through the CamRanger Settings. Network bridging allows the user to simultaneously be connected to the CamRanger network and an existing Internet network. Sharing allows the CamRanger user to share images, thumbnails, and live view with other iOS devices that have the CamRanger Share app installed.



## Connection/Network Bridging

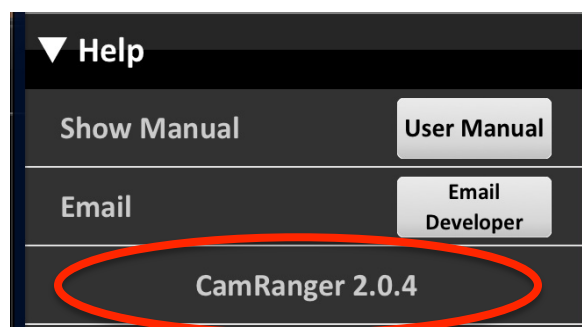
By clicking on the Connection/Network tab, the following will appear in the dropdown.



**CamRanger Connection:** A state dependent “Connect” or “Disconnect” button is available to the user as a troubleshooting option to avoid closing the application in the case of connection problems.

**Network Settings:** The network settings allows the user to be connected to the CamRanger and an additional Internet network simultaneously. Previously when using the CamRanger, the iOS device could only be connected to the CamRanger WiFi network, making it so the user could not use any other network when the CamRanger was in use. For this feature to work, the CamRanger app must be version 2.0 and up and the CamRanger firmware must be version 4 and up. To update the CamRanger firmware, visit [camranger.com/downloads](http://camranger.com/downloads) for further instructions on the update.

To check one’s CamRanger app and firmware version, refer to the ‘Help’ tab within the CamRanger settings. The first two digits listed after CamRanger indicate the app version and the third digit indicates the firmware version. For the following example, CamRanger 2.0.4 indicates that the app is version 2.0 and the firmware is version 4.

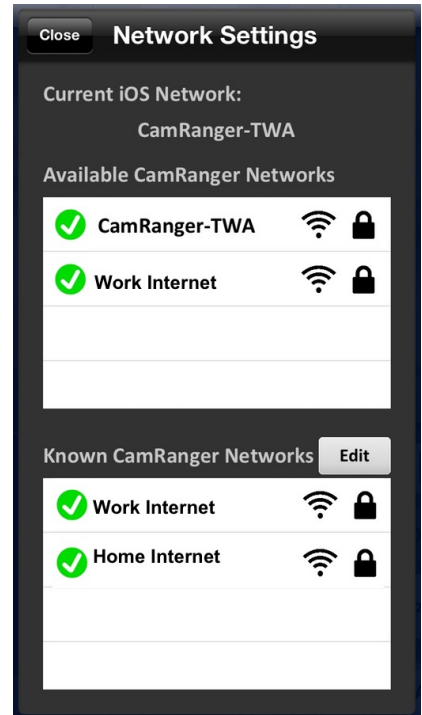


Note that connection to an additional network may slow down the performance of the CamRanger.

To join an existing network, first connect to the CamRanger network from within the iOS settings and then start the CamRanger app. Select the ‘Settings’ button from within the

CamRanger app and click on the Connection/Network tab and select the 'View/Edit' button next to 'Network Settings'. A dialog will appear listing any networks that the CamRanger sees. One can join a particular network by selecting the network of interest and then entering the password if necessary. The CamRanger will then attempt to join that network. Note that while connecting to the additional network the CamRanger network will momentarily disconnect. One should join the additional network before starting a CamRanger session, if attempted to do so during a session, this may disrupt the current session. The CamRanger cannot bridge with hidden Internet networks.

Once one has connected to an additional network, this network will automatically be saved in the CamRanger settings. All known networks will be listed at the bottom of the network dialog, "Known CamRanger Networks". Whenever the CamRanger is turned on, it will attempt to join any of the known networks on the "Known CamRanger Networks" dialog list. If multiple networks are within range, it will join the network with the strongest signal. Networks can be added or deleted by selecting the 'Edit' button, found next to the "Known CamRanger Network" list. If one does not want the CamRanger to connect to any networks on this list, it is recommended to delete them from the list.



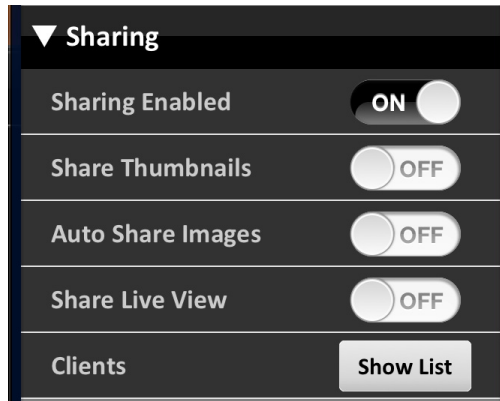
## CamRanger Share App

When the photographer is in a CamRanger session, others can view images and live view on their personal iOS devices using the CamRanger Share app. The CamRanger Share app is free and available for download on the Apple app store. Individuals using the CamRanger Share app can only view images and live view when the CamRanger is connected and the main app has enabled sharing from within the setting.

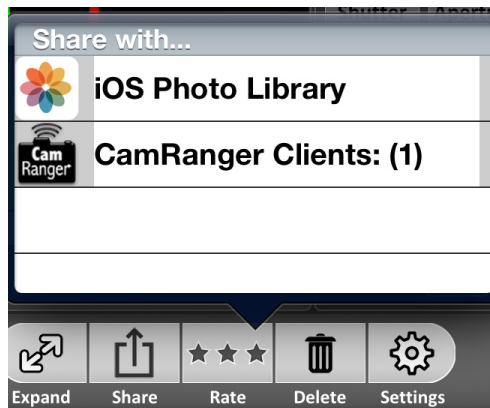
## CamRanger Controller

The photographer has complete control over what is shared to iOS devices with the CamRanger Share app. The photographer can turn on and off sharing during a CamRanger session and control of what the user can view. From within the CamRanger Settings, the main user can

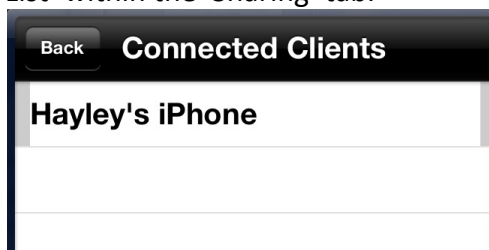
select whether to automatically share all images that are viewed on the main device, share all thumbnails, and whether or not to share live view. Individual images can also be shared. Whatever the main device's watermark settings are will be set on all sharing devices.



When viewing an image, the main user can select the 'Share' button at the bottom of the screen, providing the option of sending the image to the iOS photo library or sharing it with those using the Share app. The number in parentheses after "CamRanger Clients" indicates the number of people using the CamRanger Share app.



From the share settings one can also display a list of all shared devices that are currently connected by clicking 'Show List' within the 'Sharing' tab.



The set limit on devices connected to the CamRanger network with the CamRanger Share app is 50 devices. Assuming that all devices have a good connection with the CamRanger, as the number of users increase, the performance decreases slightly; adding 1 second per shared

device for each small JPG that is distributed is a good rule of thumb. Similarly, sharing live view with an additional 1 or 2 devices will not significantly degrade performance, but as more devices are added the frame rate will reduce. Additionally, a device with a very poor/slow connection can degrade the performance for everyone. The CamRanger app can always temporarily turn off sharing to kick off all shared devices. As the number of users increases there are practical limits and performance impacts.

If the CamRanger Controller is only connected to the CamRanger network, the Share app users will also need to connect to the CamRanger network, using the same password, however no registration is required. If the CamRanger is bridged to an existing Internet network, the Share app user can connect to either the CamRanger network or the bridged network, and still use the Share app.

## CamRanger Share Users

The CamRanger Share app is free and available for download in the Apple app store. Once the CamRanger controller has started the CamRanger session, the CamRanger Share user must connect to the CamRanger (or bridged) network from within the iOS network settings. Once connected to the network, the user can access the app and view the images that the CamRanger Controller chooses to share. Those using the share app should consult the CamRanger Controller about the network connection and should stay within range of the CamRanger or bridged network when using the app.