Underwater Distance
(for Flat Ports)

For underwater filming it is usually best to use a dome port, especially for wider lenses.

However, if shooting both in and out of the water during the same shot or need to use longer lenses, then a flat port might be needed.

Using a flat port underwater requires the technician to compensate for focus distances due to light refraction of 25 percent.

Enter the measured distance in the **Measured Distance** field and the compensated **Underwater Distance** (Flat Port) will be automatically calculated.

For longer lenses it is best to check via eye focus.

Do not use this calculation when using a dome port. The technician must calibrate the lens underwater (eye

focus) for use with a dome port, as it should be focused on the optical virtual image and not the subject. Above water, however, the dome port functions much like clear glass.

NOTE: Film tests should be used to verify results.

URL scheme: pcampro://UnderwaterDistance



Notes for all tools:

Feet and Inches are entered by selecting the single quote symbol to highlight feet and the inch symbol to highlight inches. (**Imperial** must be set in **Settings**). Use the +/- buttons for quick changes, and the arrow buttons to jump to the next field.

Meters are entered with a decimal point – i.e. 4.512. (**Metric** must be set in **Settings**).

For on-the-fly-conversion, **Units** can be temporarily changed via the keyboard to ft,in - ft - in - m - cm - mm or um. After exiting the tool, however, this unit of measurement will revert back to the default Imperial or Metric length selected in Settings.

Favorite Category and Widgets
Add tools to the Favorite List by swiping left to right on a tool in the list within pCAM app.

Your favorite tools will appear in the Favorite Category within pCAM, and also on Widgets on your device's Home Screen.

1) Perform a long press on the pCAM icon and your Favorite Tool List pops up.

2) Choose the small icon to display 4 of your Favorite tools. Choose large icon to display 8 of your Favorite tools.

3) On your device's Today View (swipe right on Home screen), and add a pCAM Widget to contain either 4 or 8 of your Favorite tools.

Tips for using pCAM Pro on Silicon Macs:

To Download:
Must be a Silicon Mac.
Go to the App Store on your Mac. Do a search entering "pCAM Pro," then click on "iPhone & iPad Apps." Download into your Mac's Applications folder.

To Best simulate iPad:

1) Change pCAM Pro/Preferences on the Silicon Mac's top menubar.

General - Change window size to either Smaller or Larger (default).

Touch Alternatives - Turn ON.

- Enables Muti-Touch for swiping and tapping.
- Drag enables your trackpad to pinch within Field of View Preview.

2) Rotate the app from Portrait to Landscape via the Mac's menubar "View." Can also be rotated by single clicking on a corner of the app and dragging to shrink or enlarge.

3) When entering a unit value in one of pCAM's tools (i.e. Focal Length or Distance) an overlay will appear on the right side of pCAM Pro's screen for Units, inches and feet, +/-, jumping between fields, etc.