Manual

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Contents

Chapter One

Trademark and Copyright

The Acuity Pro® is a registered trademark of Acuity Pro, Inc. The Acuity Pro software and manual are Copyright © 1999-2021 Acuity Pro, Inc. Please review the license agreement prior to installation. A link to the Acuity Pro setup executable is provided by email with the activation key. If you have questions, refer to the FAQs at https://acuitypro.com/faq. You can also contact us by phone at (580) 243-1301, Monday – Friday, 8:00 am - 5:00 pm, Central Prevailing Time (CPT), or email technical support at info@acuitypro.com.

System Requirements

System requirements include a minimum of 4 GB of RAM, 1.5 GB free hard drive space, **Windows 10 or 8.1**, a video card with a resolution of 1024 x 768 or higher (1920 x 1080 recommended), a sound card and speakers, one available USB port for the remote receiver and a 20- inch diagonal or larger flat screen monitor. Using a television for the monitor is strongly discouraged - see Chapter 3. The table below shows monitor size as a function of optical distance (phoropter to monitor). Depending on exam room layout, you may also need a wall mount, extension cords for your monitor and keyboard, or a wireless keyboard.

Optical Distance	Absolute Minimum Screen Height
18 feet	7.5”
20 feet	8.5"
22 feet	9.5"
24 feet	10"

Screen Resolution

NOTE: If you are using a dual monitor system, you will need either two video cards or a dual head video card (recommended). Using monitors with different resolutions may impact image quality on the second monitor. If the computer supports HiDPI (e.g., 4k), all monitors must be set to the same scale setting. Different scale settings in multi-monitor environments are not supported.

Acuity Pro calibration is dependent on the display resolution. **Before** installing the program, verify the display is set to the recommended resolution. **We cannot stress this point enough -** the display resolution must be set properly **prior** to calibration to display the optotypes correctly.

To verify the display resolution is set to the recommended resolution, right click on the desktop and select the appropriate option for the version of Windows you are using:

Windows 8 - Select "Screen resolution"
Windows 10 - Select "Display settings"

Select the "Recommended" resolution from the dropdown list. If you are unable to use the correct resolution, quality of the program will be compromised. If you change the resolution, click on "Apply" to save. If there is a problem, check with your hardware supplier about upgrading your equipment.

Installation

Refer to the Acuity Pro Ten Quick Start Guide located in the appendix.

Calibration

Acuity Pro must be calibrated to the phoropter-to-chart distance. The first time Acuity Pro runs, the New Calibration window will display (see Figure 1). If the monitor is replaced or the phoropter-to-chart distance changes, recalibration is required. For recalibration, the New Calibration window can be accessed by pressing the 'H' key and selecting 'Calibrate.' If two or more monitors are connected to the computer, calibration must be completed on the monitor Acuity Pro will be displayed on.

From the New Calibration window, select US or Metric units. Use the dropdown boxes to select feet and inches (or meters and centimeters) for the distance from phoropter to chart (note: if the lane is mirrored, the measurement will be the sum of the phoropter-to-mirror and the mirror-to-chart distances). Enter a name for the calibration. The purpose of the name feature is to allow switching between different commonly used testing distances (e.g., Acuity Pro is installed on a laptop and used in clinic, nursing home, and school screening settings). This will save time when switching between calibration distances. Use the mouse to adjust the sliders until the height and width of the acuity chart image is 3.5 x 3.5 inches (or 8.9 x 8.9 cm). The HOTV card that comes with Acuity Pro has a ruler on the back that can be placed flat on the screen to adjust the chart image size. Click "OK".
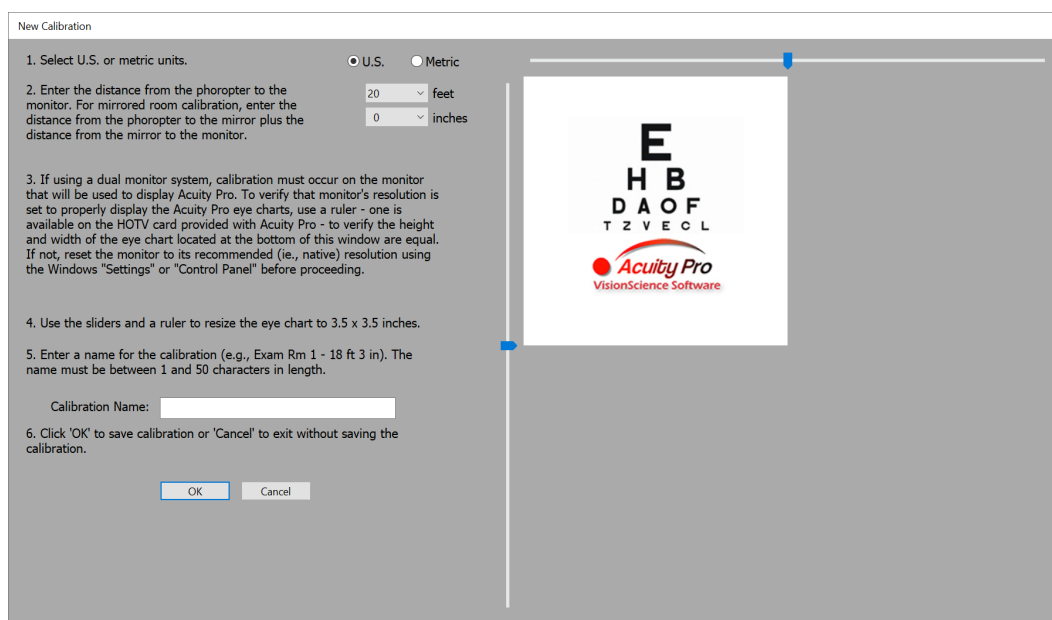
Remote Control Configuration and Troubleshooting

Acuity Pro should automatically locate the IR receiver for the remote control when the app opens. If the receiver is disconnected or cannot be located, the following screen will display:
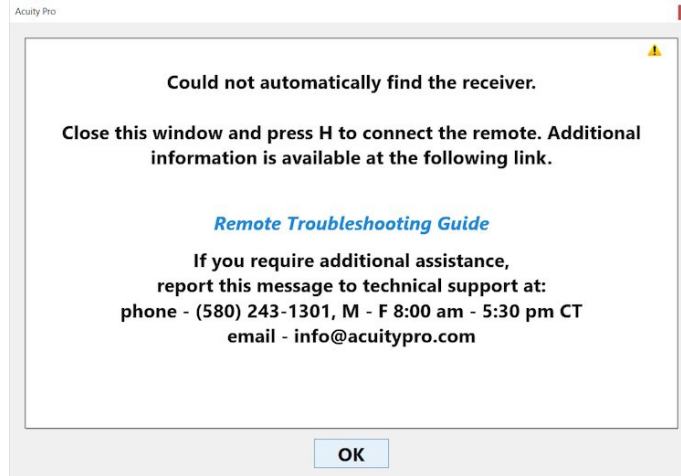
FIGURE 2 - ERROR CONNECTING REMOTE

If you plan to use the remote control, verify the receiver is connected to a USB port on the computer and that the front curved surface of the receiver has clear line-of-sight to the front of the remote control. Verify the **Auto Configure Remote** box is checked as shown in Figure 3 (press H, then select the Peripherals tab to access settings for the remote receiver). If you do not plan to use the remote control, select the **No Remote** box.

FIGURE 3 - ACUITY PRO PREFERENCES

There are two versions of the IR receiver:

1. The **USB serial receiver**, compatible with Acuity Pro Versions 7 – 10, has Celadon printed on the label on the underside of the receiver OR has an **"Acuity Pro v7 – 9"** label on top.
2. The **USB HID receiver**, compatible only with Acuity Pro Version 10, has Acuity Pro printed on the label on the underside of the receiver AND does NOT have an "**Acuity Pro v7 – 9"** label on top.
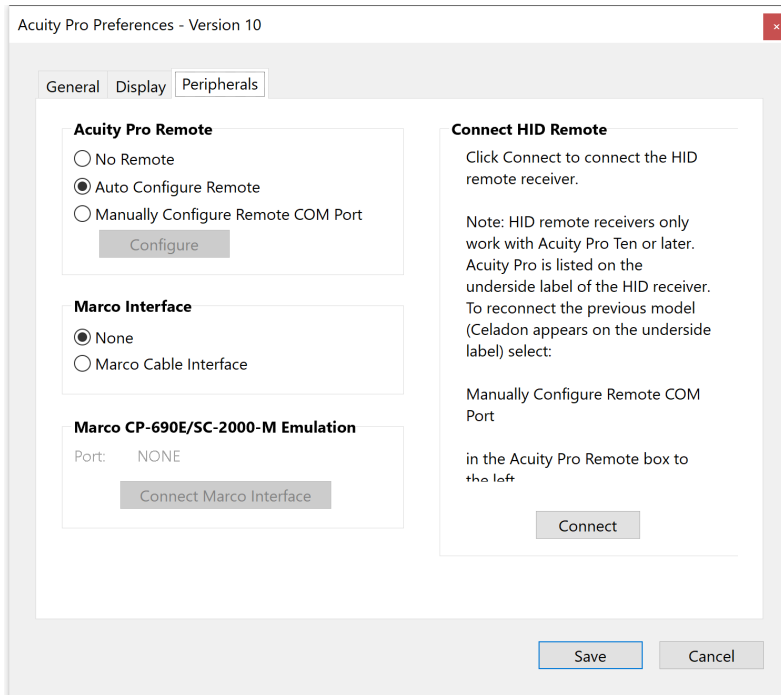
If Acuity Pro is unable to automatically configure the receiver, refer to the instructions below that are specific to your receiver.

USB Serial Receiver

Select Manually Configure Remote, then select the Configure button. The screen shown in Figure 4 will display. Use the arrow on the dropdown list to view COM port numbers assigned to connected serial devices.
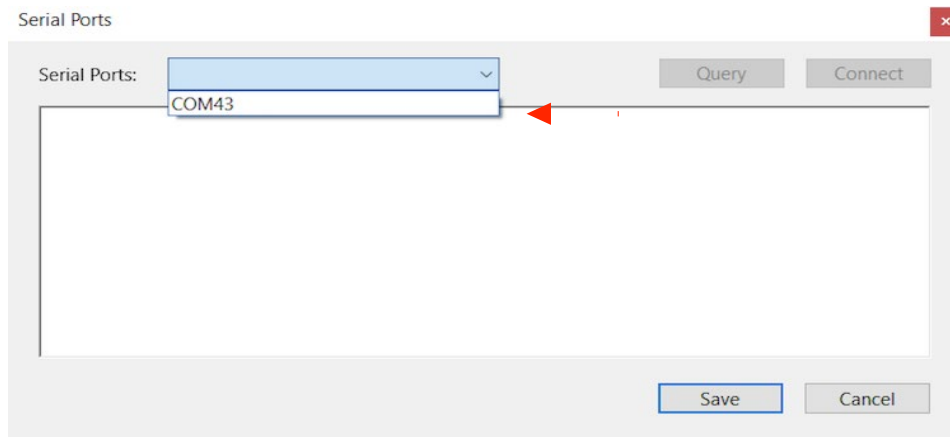

FIGURE 4 – CELADON REMOTE RECEIVER CONFIGURATION

If only one COM port is listed, use the mouse to select the port in the dropdown list and select Connect. A message should display stating the remote successfully connected as shown in Figure 5 on the next page. Select Save to exit.
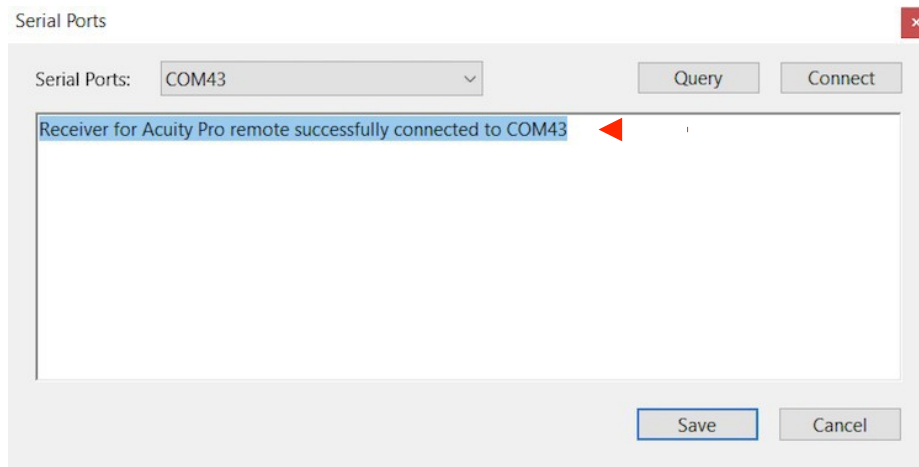
FIGURE 5 - REMOTE SUCCESSFULLY CONNECTED

If multiple ports are listed:

- Click on the Serial Ports dropdown list to display connected ports.
- Note the COM ports.
- Unplug the remote receiver and note which port disappears.
- Reconnect the remote receiver and note the port number that appears in the list. (This may not be the same port number that disappeared when the receiver was disconnected.)
- From the Serial Port dropdown list, select the COM port number that appeared when the remote receiver was reconnected to a USB port in Step 4.
- Select the Connect button.
- Verify the connection was successful.
- Select Save to exit.

If the remote is still not working, refer to the Acuity Pro Remote Troubleshooting Guide in the appendix.

USB HID Receiver

Exit Acuity Pro. Plug the remote receiver into an available USB port on the computer. Reboot the computer. Restart Acuity Pro. If the remote is still not working, press H on the keyboard and use the mouse to select the Peripherals tab to access the settings for the remote control. Select the Connect button. A message should display stating the remote connected successfully.

Chapter Two

Hot Keys and Features

Acuity Pro comes with a 56-button remote control. Acuity Pro can also be controlled from the keyboard using a hot key system. Both methods allow access to nearly any chart or function with one button press or keystroke. The rem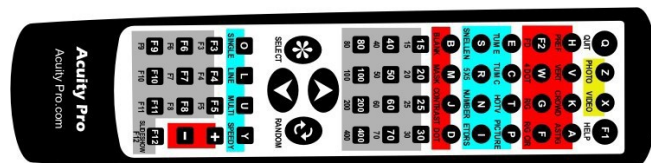ote-control buttons are labeled with keyboard letters and have a short word description on the overlay. Pressing any button on the remote control is the same as pressing the corresponding key on the keyboard. For example, pressing the 'N' button on the remote control or keyboard, displays the Number optotype. Below is a graphic of the Acuity Pro remote.

One of the primary advantages of Acuity Pro is time saved during a refraction. This is one of the most time-consuming parts of an eye exam. Since charts can be changed quickly and randomized without turning around or standing up to adjust the projector, a significant time savings is achieved. In addition, by using randomization, refractions are more accurate. Acuity is tested - not memory! This is especially useful in low vision exams, contact lens exams, and refractive surgery and cataract surgery post-op visits.

The following is a list of Acuity Pro features:

F1 Help - From the main Acuity Pro chart window, press F1 for version information, a button to display the activation key, and a link to the on-line manual. Note: For a list of all hot keys, refer to the mouse pad or the back of the HOTV card.

F2 Fixation Disparity - with fusion lock, press the button again to toggle to Fixation Disparity without fusion lock. These charts are extremely useful when considering prescribing prism or to evaluate binocularity.

F3 White-on-Black/Black-on-White Chart Toggle – Toggle between white optotypes on a black background and black optotypes on a white background.

F4 Allen Symbols - The classic Allen optotype. Please note Acuity Pro includes more accurate illiterate charts including Patti Pics®[1], HOTV, Tumbling C, and Tumbling E.

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[1]Patti Pics® is a U.S. registered trademark of Precision Vision Inc. and are used under license from Precision Vision, Inc. The Precision Vision and Patti Pics® logos are © Precision Vision

F5 – F11 Hot Key Setup and Play - Macros/short cuts to hot key sequences are created with this utility. Select the 'H' button to display the Acuity Pro Preferences window, select the General tab, and then click the Hot Key Setup button. Click a function key on the remote graphic to assign a key sequence. Note: mouse over the function keys to view the current hot key sequence assignments.
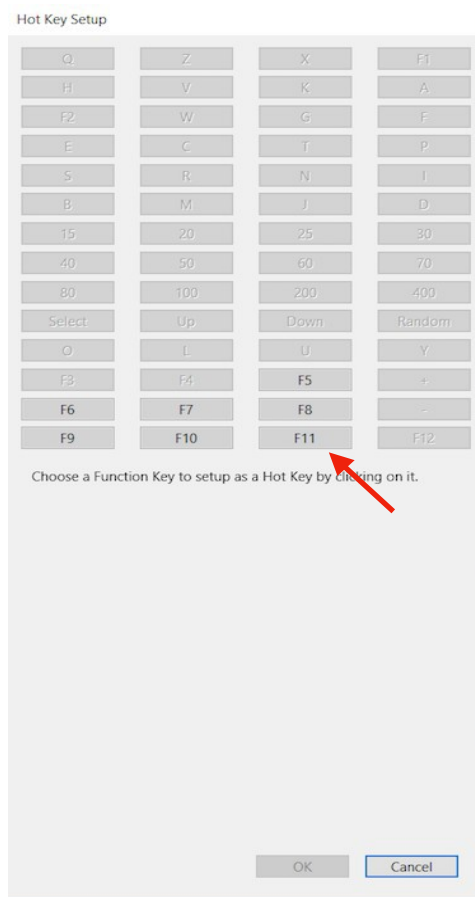

FIGURE 6 - HOT KEY SETUP

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Follow the instructions to assign hot key sequences to a selected function key. More detailed instructions, as shown in Figure 7, are available by selecting the F1 key from the Hot Key Setup Window.
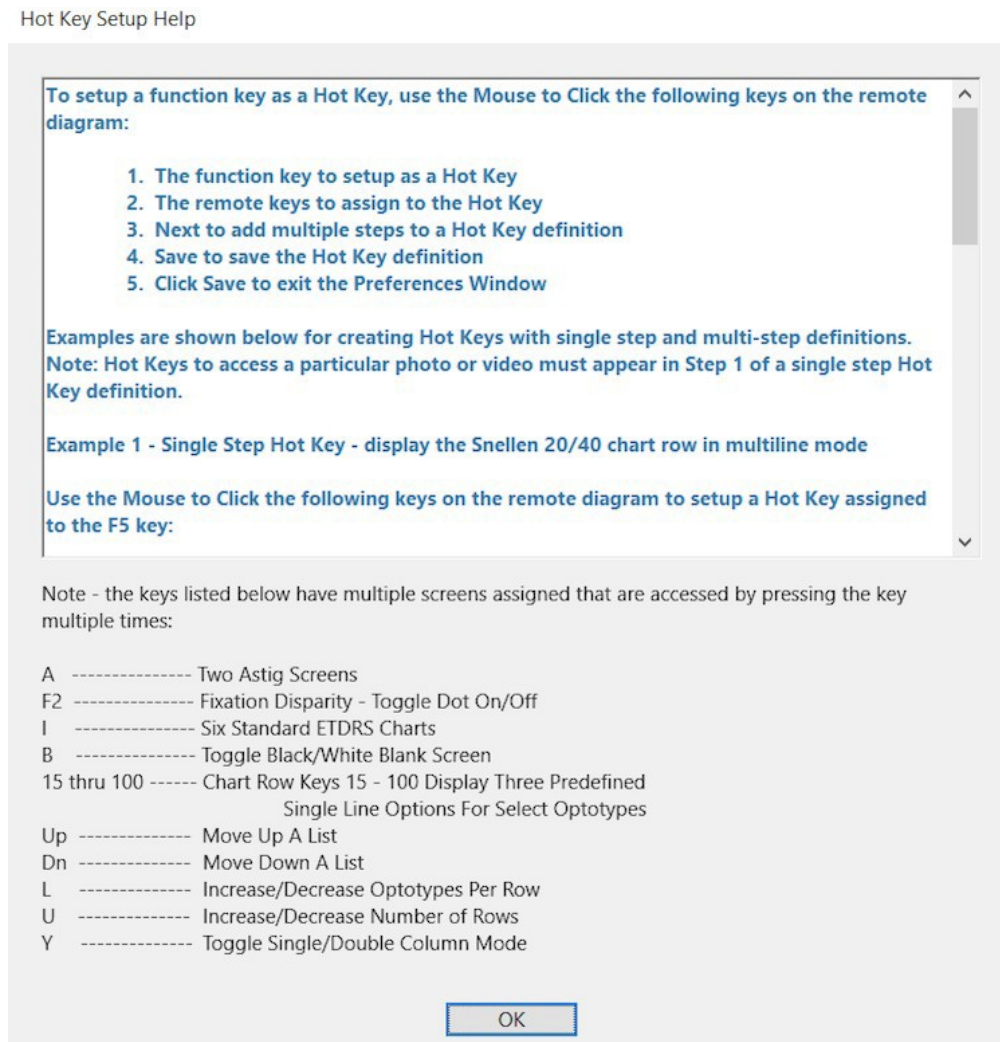
Hot Key Setup Help

To setup a function key as a Hot Key, use the Mouse to Click the following keys on the remote diagram:

1. The function key to setup as a Hot Key
2. The remote keys to assign to the Hot Key
3. Next to add multiple steps to a Hot Key definition
4. Save to save the Hot Key definition
5. Click Save to exit the Preferences Window

Examples are shown below for creating Hot Keys with single step and multi-step definitions. Note: Hot Keys to access a particular photo or video must appear in Step 1 of a single step Hot Key definition.

Example 1 - Single Step Hot Key - display the Snellen 20/40 chart row in multiline mode

Use the Mouse to Click the following keys on the remote diagram to setup a Hot Key assigned to the F5 key:

Note - the keys listed below have multiple screens assigned that are accessed by pressing the key multiple times:

A   ---------------- Two Astig Screens
F2   ---------------- Fixation Disparity - Toggle Dot On/Off
I   ---------------- Six Standard ETDRS Charts
B   ---------------- Toggle Black/White Blank Screen
15 thru 100 ------ Chart Row Keys 15 - 100 Display Three Predefined
                              Single Line Options For Select Optotypes
Up   ---------------- Move Up A List
Dn   ---------------- Move Down A List
L   ---------------- Increase/Decrease Optotypes Per Row
U   ---------------- Increase/Decrease Number of Rows
Y   ---------------- Toggle Single/Double Column Mode

OK

FIGURE 7 - HOT KEY SETUP HELP

After the function key is configured, select that key to play the assigned key stroke sequence. This is useful for displaying slide shows or playing favorite videos from a single key press. Other ideas for macros include features or functions that are specific to your exam style. For example, if 90 percent of your refractions begin with Sloan letters (5x5) in multirow format from 20/40 to 20/20, a function key can be assigned to a macro to display a Sloan chart with four rows starting with the 20/40 row. Select F1 from the Hot Key Setup Window for detailed instructions and examples.

F12 Slideshow Feature - Display available slideshows. Use the Up and Down arrow buttons to scroll through the available slideshows. Press the 'Select' button to play the selected slideshow. Press Q or Random (spacebar on the keyboard) to exit a slideshow.

Page Up & Up Arrow button - Increases the letter size by one Snellen (or LogMar - depending on selected chart units) size. Select optotypes can be displayed up to 20/800 depending on the size of the monitor. Scrolls up in the Slide, Video or Slideshow list.

Page Down & Down Arrow button - Decrease the letter size by one Snellen (or LogMar - depending on selected chart units) size. Scrolls down in the Slide, Video or Slideshow list.

0 through **8** keyboard & **15** through **400** remote - The numbers will take you to that Snellen size. For example, push 4 (keyboard or 40 remote) for a 20/40 row of letters. In multi-line mode, the number pushed will be the top row displayed. The remote buttons are self-evident. Here are the jump assignments for the keyboard:

0 - 20/400	**3** - 20/30	**6** - 20/60
1 - 20/100	**4** - 20/40	**7** - 20/70
2 - 20/20	**5** - 20/50	**8** - 20/80

+/- Increase/decrease contrast in the Variable Contrast Screen and increase/ decrease size of the 4 Dot and Fixation Dot.

Spacebar - Randomize the currently displayed letter set - same as the 'Random' button on the remote.

A. **Astigmatic** clock dial chart and dot pattern chart. Press the 'A' key to display the clock dial, press the 'A' key again to display the dot pattern chart. The size of the dot pattern can be increased/decreased by pressing the +/- keys, respectively.

B. **Blank screen -** Some users want a totally dark exam room for certain tests; pressing the B will black out the screen. Pressing it again will display an all-white screen. Any other key will return to the eye chart.

C. **Tumbling C or Landolt C chart** - Used primarily for illiterate patients; have the patient tell whether the break in the wheel is up, down, left, or right or have them point their finger in the direction of the "broken" part.

D. **Fixation Dot -** For an easy to see large target, push the D button and get a big white dot on a dark screen. The dot size is variable by pressing + or – on the remote.

E. **Tumbling E** chart - Another illiterate chart; have the patient point or tell which direction the legs of the E or "table" are pointing.

F. Red/Green concentric circles. The size of the circles can be increased/ decreased by pressing the +/- keys, respectively.

G. Red/Green overlay. Use for red-green balance tests. Push the G button again to remove it.

H. Preferences - Press 'H' to display the Acuity Pro Preferences window. Figure 8 shows the configuration options available on the Display tab of the Acuity Pro Preferences window.
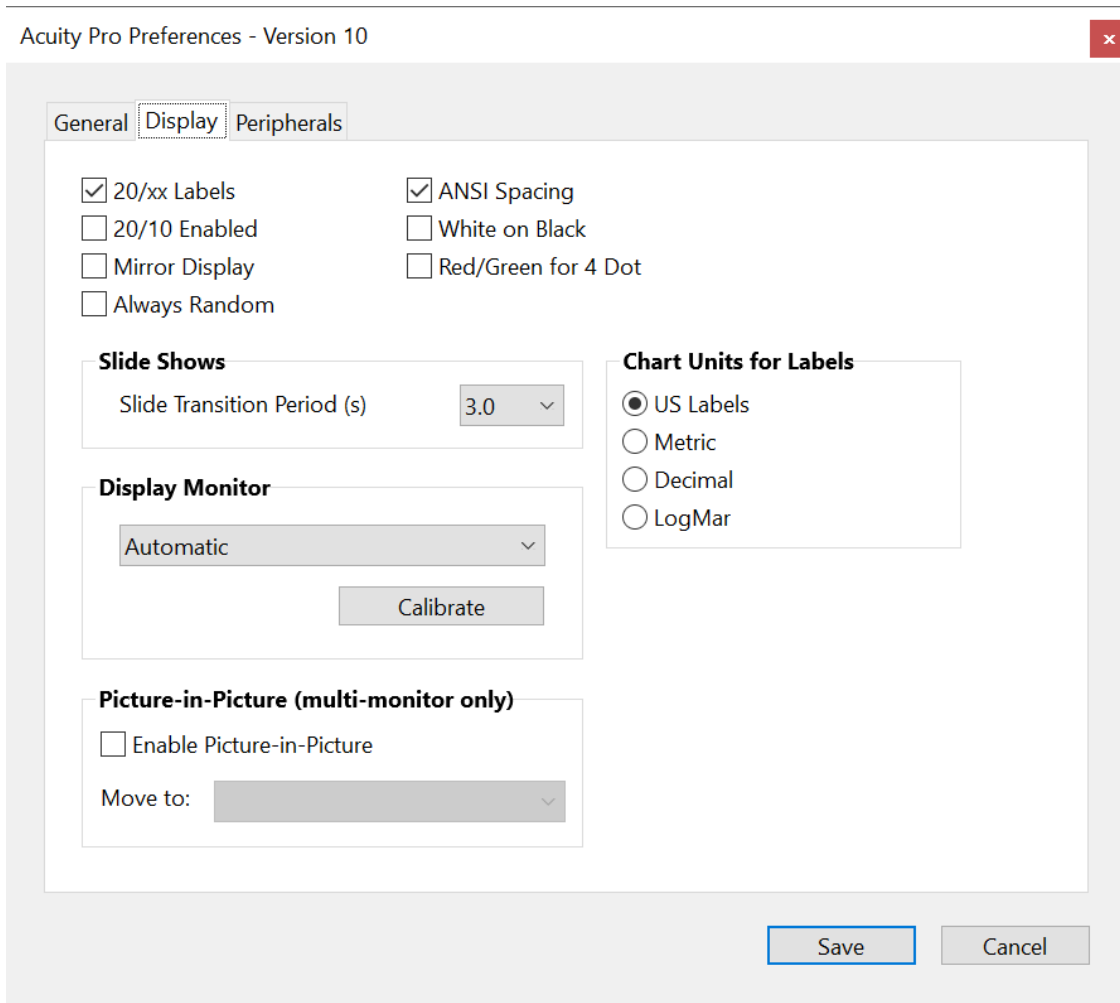

FIGURE 8 - ACUITY PRO PREFERENCES

If there is a change in lane distance or the Acuity Pro monitor is replaced, the chart can be recalibrated by clicking the Calibrate button on the Display tab (shown in Figure 8). Other configuration options include turning on/off chart labels, the 20/10 row, mirror display, always random, ANSI spacing, white-on-black chart display, and using red/green instead of red/blue for the 4 Dot chart. The transition period for slide shows, chart units, and picture-in-picture settings are also configured on the Display tab. Check for Updates, Hot Key Setup, and Media Setup options are

accessed from the General tab. If Acuity Pro needs to be installed on a different computer, the Deactivate option is on the General tab. Configuration options for the Acuity Pro Remote receiver and Marco interface box are on the Peripherals tab.

From the **Worth 4 Dot chart**, the H key is used to access the control panel for red/blue color adjustment for the 4Dot and Fixation Disparity charts (see Adjusting Red/Blue Red/Green for 4 Dot and Fixation Disparity for more information).
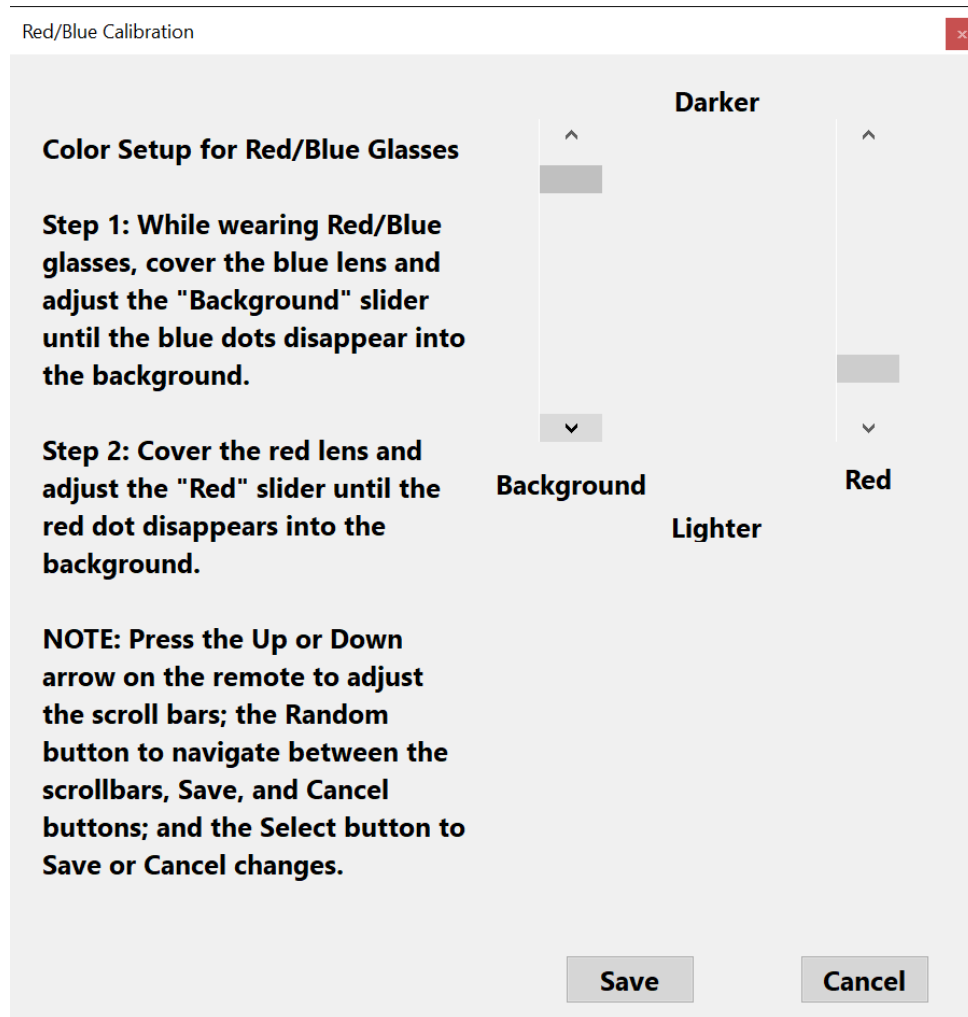

FIGURE 9 - RED/BLUE, RED/GREEN CALIBRATION

I. **ETDRS charts** - The ETDRS chart is displayed in LogMar units with Snellen equivalents displayed on the right. Press the I key repeatedly to cycle through the R, 1, 2, 1-2000, 2-2000, and 3-3000 ETDRS charts. The top row of the ETDRS charts is 20/200 as specified in the protocol defined by the National Institutes of Health.

The spacing between letters and lines is also defined by the ETDRS protocol. The Up and Down Arrows on the remote (or PgUp/PgDn keys on the keyboard) are used to scroll through the chart. To exit to another chart, press the chart specific button for that chart (e.g., press R to display the 5X5 Sloan chart).

Depending on monitor size, moving up the chart may result in the letters 'spilling off' the edge of the screen. There are two ways to increase the viewable area of the chart - purchase a larger monitor or shorten the patient distance. Displaying a complete ETDRS chart at a patient distance of 20 feet requires, at a minimum, a computer screen of 35 inches wide by 30 inches tall. Since this can be an expensive option, the most practical solution is to shorten the patient-to-chart distance. Please note, this option requires recalibration. (See **Calibration** on page 2 for instructions to save multiple calibrations.)

J. **Contrast Sensitivity** - This feature was created by Acuity Pro, Inc, specifically to address the need for a simple method to assess contrast sensitivity. It allows adjustment of the relative contrast of the optotype letter set from 0% to 30%. Press the J key to invoke this feature. To adjust the contrast, press the + or - key to increase or decrease the contrast of the letter set. The relative percent of contrast is briefly displayed in the upper left corner of the screen. Press J again to exit. Acuity Pro will save the percent of contrast setting and display at that percent of contrast next time the feature is accessed.

NOTE: This contrast is totally dependent on your monitor settings for brightness and contrast. We have no control over your monitor settings and room lighting. Therefore, we cannot guarantee 10% contrast is really 10% contrast on your equipment and in your room. We also do not have control of your patient's pupil size, which is perhaps the most influential in affecting contrast sensitivity measurements. But, by providing a variable contrast option, you can test a given contrast setting from visit to visit in the same clinical setting and document whether any reduction in contrast sensitivity is occurring.

K. **Crowding Bars -** The bars are used for checking acuities in amblyopic patients. Press the 'K' button to invoke the bars. If the chart is displayed in single or multi- line mode, the screen will change to a single letter display. To remove the bars, press K again.

L. **Line display** - Displays a single line of the optotype. Press L again to reduce the number of characters on the line - repeat down to a minimum of 2 characters per line. Continuing to press L will increase the characters per line up to a full line. Acuity Pro will save the last setting used.

LogMar Units. - There is no hot key for this function. Press 'H' to access the Acuity Pro Preferences window and click on the radio button labeled 'LogMar' to display with LogMar spacing and units. See Figure 10.
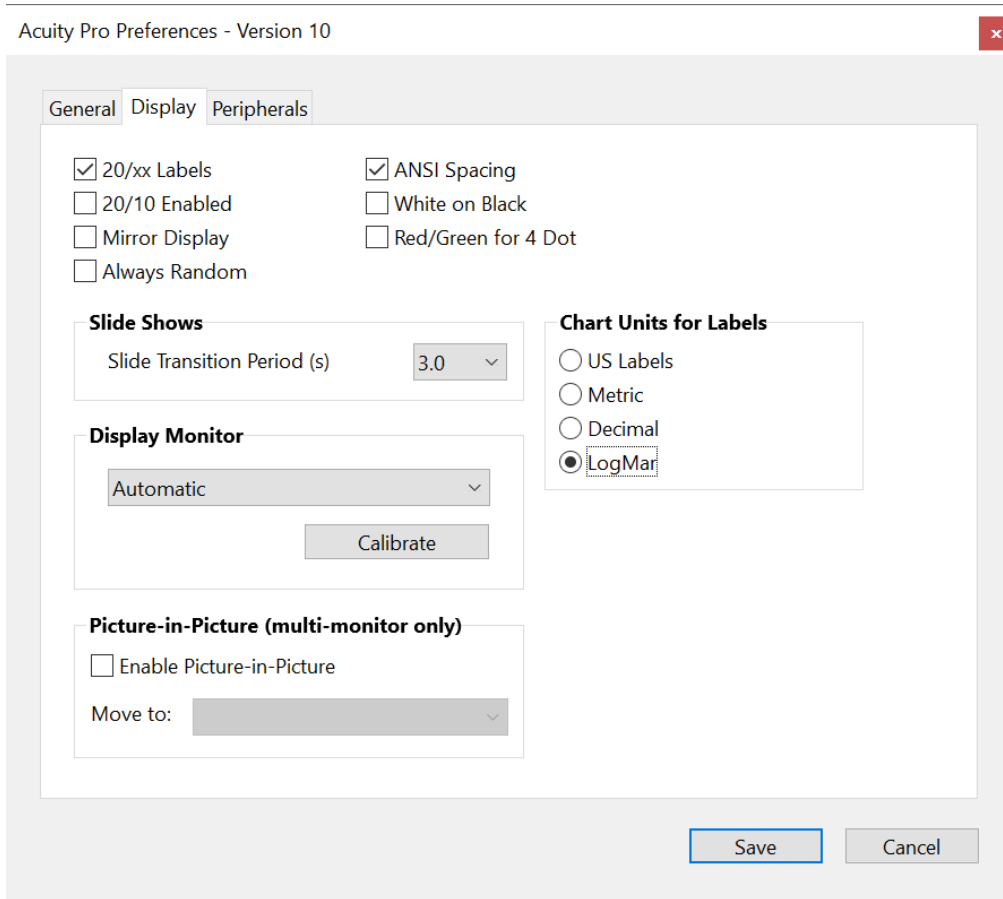
FIGURE 10 - LOGMAR UNITS AND MIRROR DISPLAY

M. **Mask Mode**. This feature allows a black mask to surround a line of letters or a single letter. The single letter option can be used for dissociated phorias, vertical and lateral.

Mirror Mode - There is no hot key for this feature. Press H to display the Acuity Pro Preferences window and click the check box labeled Mirror Display to reverse the charts for a mirrored room. See Figure 10.

N. **Number Optotype** - An illiterate chart option.

O. **One (single letter display)** - This feature can be used as a fixation target or to check acuity for a patient who has difficulty with multiple letters. Single letter display works with all optotypes.

P. Picture chart - The Patti Pics®[1] pediatric chart. Note: The Allen symbols are still available via the **F4** key.

Q. Quit and EXIT

QUIT Feature - To quit Acuity Pro, press Q. **NOTE: It is a best practice to exit Acuity Pro by pressing Q. Otherwise, changes to preferences will not be saved.**

EXIT Feature - If you are in the photo gallery, slideshow, or video option, Exit and return to the eye chart by pressing Q or Random on the remote control (spacebar on the computer).

R. 5 x 5 Sloan Letters – Press the R button to change to the 5x5 optotype. This is a 5x5 height to width optotype with 10 different letters. This is the optotype set used for ETDRS charts.

Spacebar/Random - Randomize display. Anytime you suspect you are checking memory and not acuity, press the Random button (or spacebar on keyboard) for a random set of letters. Remember the random button works in all charts and creates totally random charts.

S. Snellen Chart - Press S to select the Snellen chart.

T. HOTV Chart - Press T to select the HOTV chart. This illiterate chart defaults with crowding bars. The patient will hold the HOTV card, included with the Acuity Pro license, in one hand and point with the other. Unless someone holds an occluder, the patient needs to be patched, which is the preferred method.

Tip: Start with large letters and practice having the patient point to the letter on the HOTV card that matches the letter on the screen. Single letter mode works best for this test.

U. MUlti-line function. Press U to select multi-line chart display. Depending on the size of the acuity rows being displayed, this feature allows as many as 4 rows to be displayed at once. Press U again to reduce to 3 rows and again to reduce to 2. When 2 rows are displayed, pressing U will increase the number of rows. This function works with all charts.

V. Vertical line of 20/40 letters.

W. Worth 4 dot – Use red/blue or red/green glasses or filter to check for diplopia and suppression.

To adjust the size of the dots to better assess suppression, press the + or - keys. The Red/Green filters in the phoropter can be used instead of the red/blue glasses by checking the box located on the Acuity Pro Preferences Window Display tab entitled Red/Green for 4 Dot.

NOTE! It is IMPERATIVE that the red/blue color scheme be adjusted prior to using this feature with patients. Since we have no control over your computer equipment quality, we have provided a way to achieve maximum 'block' of the red/blue images from within Acuity Pro (see section H, Figure 9).

X. Video Player Setup & Play – Acuity Pro provides the capability to play videos without exiting the acuity chart. Animation clips are included for use as fixation targets during pediatric retinoscopy. In addition, videos can be used for informed consent compliance or to show a video clip of a surgical procedure.

To search for a video, press X (Video button) then the Down Arrow or the Up Arrow (PgDn or PgUp key on the keyboard) to scroll through the directories in alphabetical order. Press Select (Return or Enter on the keyboard) to open a directory. Scroll up or down through the titles. Press Select to play a video. To exit press Randomize or Q. Acuity Pro comes with a clip from Lacrimedics (showing a punctal plug insertion procedure), a custom pediatric video, and several Looney Tune cartoons.

See Chapter 4 for details on how to import videos.

Y. Speedy Acuity. This feature was added due to requests from many doctors. By pressing the 'Y' button, a single column of letters in descending size will be displayed. To jump down or up in size, press the Down Arrow or Up Arrow. Press the 'Y' button again for a two-column display.

Z. Digital Photo - The Digital Photo Gallery (DPG) is one of the most useful and educational tools in your office.

Acuity Pro comes with 50 pathology slides and provides a mechanism to import any number of images (see Chapter 4 for details). A listing of the images included with Acuity Pro is in the appendix of this manual. To access this feature press Z. To access any photo in the library using the remote control, press the Up Arrow or Down Arrow to search through the directory list. The directories are organized by topic. Once the desired topic is located, press the Select button and the titles for that topic will be listed. Use the Up Arrow and Down Arrow to navigate to a photo and press Select. The photos in the DPG are copyrighted and cannot be used in any other format or program. We are grateful to the NSU Oklahoma College of Optometry and the National Eye Institute for the photos and diagrams included with Acuity Pro.

Chapter Three

Hardware Set-Up Options

There are various set-up options for the Acuity Pro system. These set-up options are dependent on room length and arrangement of equipment. In a non-mirrored room, the monitor may be a fair distance from the doctor and patient. If a monitor extension cable is required, purchasing a high-quality cable is strongly recommended. Inferior quality video cables may cause ghosting of the images.

In a mirrored room, the monitor will be mounted above and behind the patient. **Verify the near point rod on the phoropter does not block the view of the monitor.** The monitor will need to be mounted slightly off center if this is a problem.

If a keyboard is preferred to control Acuity Pro, a wireless keyboard is recommended. This is a good solution for cable management and makes keyboard placement possible in a variety of locations. The best wireless keyboard is one that includes a touch pad. This eliminates the need for a separate wireless mouse and allows the keyboard to be used anywhere in the room.

Monitor choice was discussed in Chapter One but a few other comments may be relevant. We do not recommend using an LCD TV for a monitor because many video cards do not support the screen resolutions required for the TV and many TVs "stretch" the image to fill the width of the screen.

When purchasing a flat screen, verify it is wall mountable. For audio from videos to be broadcast from the direction of the monitor, a monitor with built-in speakers is recommended. Please note that not all video cables can carry audio. Verify with the vendor prior to purchase. Cables can be hidden in the wall by placing a hole near the wall mount and another near the floor (please consult with a licensed professional for guidance). Cover plates can also be used to provide a finished look.

Using a laptop provides the flexibility for out-of-clinic use including school and sports screenings, nursing home visits, and health fairs.

Dual Monitor Setup

Acuity Pro does not require a dedicated computer. If the exam room computer has a dual head video card, a different program can be displayed on each monitor. For example, the desk monitor can display the digital imaging system or electronic health records software and a monitor at the end of the room can display Acuity Pro. Dual monitors are configured through Windows Settings->System->Display. Your IT support is the recommended resource for setting up dual monitor systems.

Short Rooms

Many doctors ask how short rooms affect refractions when deciding to setup exam rooms as straight or mirrored rooms. Only light coming from an infinitely distant source is parallel. Light coming from a source any closer than infinity is divergent light. When trying to determine the refractive error of a patient, should the reading in the phoropter be prescribed or should that measurement be altered based on the patient distance to the chart? If spectacle lenses have a 1/8 diopter tolerance and we cannot prescribe but in 1/4 diopter steps, then we only need to be concerned about room distances that have more than 1/8 diopter of divergence light from the target source, the eye chart. For clinical purposes, 20-foot rooms have always been considered "optical infinity" but if you do the math, a 20-foot room has a stimulus to accommodation of .164 diopter. In other words, the light is diverging from a 20-foot source at .164 diopter. You should add .164 diopter of minus (less plus) to all your phoropter readings to be totally exact in prescription. However, since .164 diopter is less than 1/4 diopter, and that is the least change we can make in spectacle prescriptions, most doctors prescribe directly from the phoropter. Since .164 diopter is greater than 1/8 diopter, you would be less in error if you made the 1/4 diopter adjustment.

Reference the table below to determine how room distance affects final prescription.

Optical Distance	Divergence of light
20 feet	.164 diopter
16 feet	.205 diopter
14 feet	.234 diopter
12 feet	.273 diopter
10 feet	.328 diopter
8 feet	.41 diopter

There is nothing wrong with using short rooms with direct viewing of acuity charts, just remember to adjust refractions by the appropriate amount.

Chapter Four

Handy Tips

To prevent the monitor from going to sleep during an exam, set power settings from the Windows 10 Control Panel->Power Options->Change plan settings. Set **Turn off the display** and **Put the computer to sleep** to a reasonable period (e.g., 2 hours).

Room illumination is no longer an issue with digital acuity systems. Most doctors prefer to leave the room lights fully on. This more closely represents everyday lighting, which makes refractions more accurate. Read the chapter on ANSI standards for details about luminance, contrast, and color temperature of monitors and acuity presentation.

Import Images and Videos - Images must be in JPG format with a minimum resolution of 800x600 and in that ratio (Acuity Pro images are 1024 x 768). Videos must be in a format supported by Windows Media Player. From the remote or keyboard, select H. From the Acuity Pro Preferences window select the **Photo/Video Setup** button to display instructions for importing photos and videos (see Figure 11).
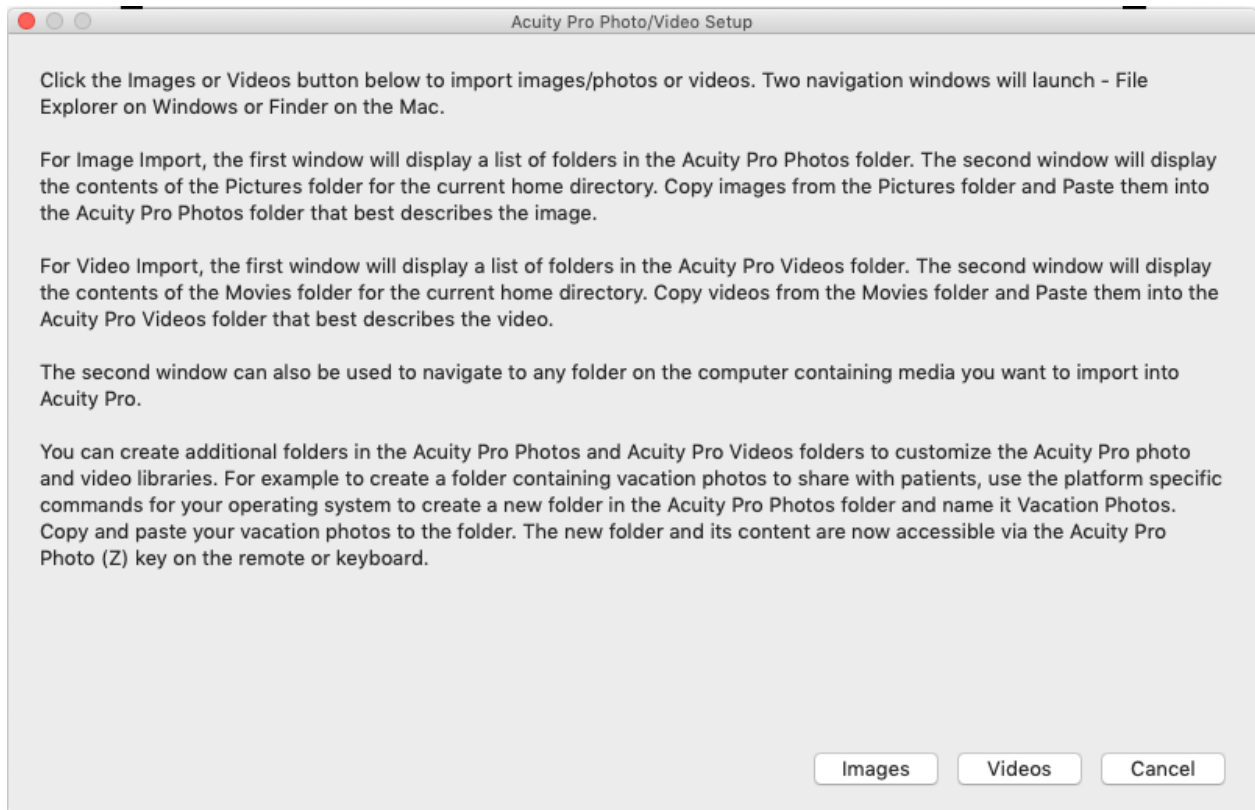

Acuity Pro Photo/Video Setup

Click the Images or Videos button below to import images/photos or videos. Two navigation windows will launch - File Explorer on Windows or Finder on the Mac.

For Image Import, the first window will display a list of folders in the Acuity Pro Photos folder. The second window will display the contents of the Pictures folder for the current home directory. Copy images from the Pictures folder and Paste them into the Acuity Pro Photos folder that best describes the image.

For Video Import, the first window will display a list of folders in the Acuity Pro Videos folder. The second window will display the contents of the Movies folder for the current home directory. Copy videos from the Movies folder and Paste them into the Acuity Pro Videos folder that best describes the video.

The second window can also be used to navigate to any folder on the computer containing media you want to import into Acuity Pro.

You can create additional folders in the Acuity Pro Photos and Acuity Pro Videos folders to customize the Acuity Pro photo and video libraries. For example to create a folder containing vacation photos to share with patients, use the platform specific commands for your operating system to create a new folder in the Acuity Pro Photos folder and name it Vacation Photos. Copy and paste your vacation photos to the folder. The new folder and its content are now accessible via the Acuity Pro Photo (Z) key on the remote or keyboard.

Images   Videos   Cancel

FIGURE 11 - ACUITY PRO PHOTO/VIDEO SETUP

When finished, close the navigation windows.

Photos and videos can be added from your personal photo/video collection, imaging systems, or scanned images. Please respect and comply with all copyright laws when using images for which you do not own the copyright. **All Acuity Pro photos are copyrighted and cannot be used outside Acuity Pro without express written permission from Acuity Pro, Inc.**

Play a Slideshow - Acuity Pro Ten allows users to import an infinite - within the constraints of available hard drive space - number of slideshows. All slide show files must be in JPG format. Pathology slide shows and a sample promotional slide show are included with Acuity Pro. Suggestions for custom slide shows include incorporating fixation slides for children, vacation slides, practice promotional slides, etc., into custom slide shows. To start a slide show, press **F12**. This will display all available slideshows. Press the **Up Arrow** or **Down Arrow** to scroll through all available slide shows. Press Select to start the slide show. To stop the slide show and return to the acuity chart, press **Randomize** or **Q**.

Think of slide shows as on-demand screen savers. After the refraction, instead of leaving a boring screen full of letters, click on a slide show of eye path photos, vacation slides, or practice promotion slides.

Built in Pointer - This is useful when working with children by allowing you to point at a single letter in the C or E chart or in the photo gallery for pointing out specific details in the pathology slides. Move the mouse pointer to the monitor displaying Acuity Pro and click with the left mouse button. The mouse pointer will toggle between the mouse pointer and the arrow pointer.

Back-up Acuity System – A back-up acuity system is recommended for use in an emergency, such as a computer or hard drive crash. One of the advantages of Acuity Pro over most All-In-One Digital Acuity Systems is the ability to download Acuity Pro from the URL you received via email at time of purchase, install and setup Acuity Pro in demo mode on another computer, and you are ready to go. Acuity Pro will run in demo mode for up to one week. Please call (580) 243-1301 or email info@acuitypro.com to have the activation key reset for the new computer prior to demo-mode timing out.

Another best practice is to have the Acuity Pro Digital Acuity System on a **battery back-up** (UPS). The UPS should be large enough to handle the computer and monitor. One or two-second power outages can cost several minutes of re-boot time. Use of a UPS with surge protection can also extend the life of the computer and monitor.

Adjusting Red/Blue, Red/Green for 4 Dot and Fixation Disparity

The calibration screen (Figure 9) for the 4-dot and fixation disparity tests is accessed by pressing **H** from the 4-dot test window. The purpose of the calibration is to adjust the red/blue color scheme of your monitor to achieve maximum color block while wearing the red/blue glasses. This is particularly important if you utilize these screens.

The Red/Green filters in the phoropter can be used instead of the red/blue glasses by checking the **Red/Green for 4 Dot** box located on the Acuity Pro Preferences Window Display tab.

NOTE: Setting monitor Brightness and Contrast at about 30% each and setting RED, BLUE, and GREEN screen colors at about 75% seems to be a good starting point. Monitor brightness and screen colors are set by physical controls on your monitor, not through software. Read your monitor manual for details.

Macro Setup

See Chapter Two under **'F5-F11'** for complete details.

Video Conversion Utilities

There are free utilities for video and photo processing to convert between video formats and to reverse videos for mirrored rooms. As these programs are continually changing, we suggest doing a quick search to find one appropriate for your needs.

Chapter Five

ANSI Standards and Acuity Charts

There are 3 major features that apply to electronic eye charts. ANSI states that luminance should be between 80 - 320 lumens/m2. Virtually all modern LCD flat screen monitors are rated at 300 lumens/m2 or better. If the brightness of the monitor is set at 50%, it will be well within the stated ANSI standards for luminance. Contrast is stated in ANSI to be no less than 85%. All modern LCD monitors are rated at 300:1 contrast ratio or better, many now exceed 700:1. This is well above the 85% requirement. The other important ANSI standard is Color Temperature. Color temperature is how white the white is on the screen. As specified in ISO 8596, White light within a color temperature range of 2,500K to 7,000K shall be used for luminance of eye charts. Microsoft & Hewlett Packard established a standard for all modern displays which they called sRGB or "average summer daylight". It is 6500 degree K. All modern LCD monitors have color temperature settings that let you choose between this standard of 6500 K and others. Make sure you set your monitor on the 6500 degree K setting. Even though the ISO standard is wide, choice of the 6500K temperature setting will give you the most natural looking white according to Microsoft and Hewlett Packard. Lower temperature settings look yellowish and higher look bluish. We recommend, to the extent possible, to maintain monitor settings at factory default.

Appendix

Hot Key Chart Summary

F1 - Help
F2 - Fixation Disparity w/wo Fusion Lock
F3 - White-on-Black toggle
F4 - Allen Symbols
F5 - F11 - User Defined
F12 - Slide Shows

PgUp - Increase Optotype Size/ Scroll up through photo, video or slideshow titles
PgDn - Decrease Optotype Size by One Step/ Scroll down through photo, video or slideshow
      titles
Spacebar - Randomize Display

1 - 20/100	**6** - 20/60
2 - 20/20	**7** - 20/70
3 -20/30	**8** - 20/80
4 - 20/40	**0** - 20/400
5 - 20/50	

A - Astigmatic Chart	**O** - One Letter Display
B - Blank Screen	**P** - Picture Chart
C - Tumbling 'C' Chart	**Q** - Quit or Exit Current Screen
D - Fixation Dot	**R** - 5x5 Sloan Chart
E - Tumbling 'E' Chart	**S** - Snellen Chart
F - Red/Green Circles	**T** - HOTV Chart
G - Red/Green Overlay	**U** - Multi-Line Display
H - Preferences	**V** - Vertical Line of Letters
I - ETDRS Charts	**W** - 4 Dot Test
J - Contrast Sensitivity	**X** - Video Player
K - Crowding Bars	**Y** - Speedy Acuity
L - Single Line Display	**Z** - Photos
M - Mask	
N - Number Chart	

+ Increase Contrast on Contrast Sensitivity Chart, Increase dot size on 4 Dot test

- Decrease Contrast in Contrast Sensitivity Chart, Decrease dot size on 4 Dot test

Digital Photos Included with Acuity Pro

Abrasion, Corneal
Ant Chamber IOL
Arcus
ARMD
ARMD 2
Asteroid
Buried Drusen
Capsular Pigment
Cataract Cortical
Cataract Nuclear
Cataract PSC
Chorodial Nevus
Concretions
Corneal Foreign Body
Corneal Infiltrate
Corneal Ulcer
Diabetic Retinopathy
Diabetic Retinopathy 2
Drusen
Episcleritis
Epithelial Ingrowth
Eye Diagram
Glaucoma
GPC
Hollenhorst Plaque

HSV Keratitis
Hypertensive Retinopathy
Jelly Bumps
Keratoplasty
Laser Iridotomy
Macular Hole
Myelination
NVD
Persistent Pupillary Membrane
Pinguecula
POHS
Posterior Synechia
Pterygium
Punctal Plug
PVD
Pyogenic Granuloma
Retinal Detachment
RK
RPE
Hypertrophy of RPE
SPK
Swollen Disk
Tortuous Vessels
Viral Conjunctivitis
YAG Capsulotomy

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NOTE: Installation must be done from an account with administrator privileges.The computer must be connected to the Internet for license activation. If the computer will not have internet access after installation, please contact us for alternative activation instructions.

Acuity Pro installation will not erase or overwrite previous versions and there is no need to uninstall previous versions. To avoid inadvertently launching an old version of Acuity Pro, right click on Acuity Pro shortcuts on the desktop and click delete prior to installing Acuity Pro Version 10.

- Plug the remote receiver into a USB port and exit all other programs - please note direct line-of-sight is required between the front curved surface of the receiver and remote control.

- Download Acuity Pro from the link you received via email

- Double click the "AcuityPro10_Setup" file

- If a dialog window displays "Do you want to allow this app to make changes to your device?", click "Yes"

- The installer will guide you through installation

- When installation is complete, double click on the Acuity Pro desktop icon to launch Acuity Pro

- Acuity Pro License Agreement
    - Read and acknowledge the license agreement
    - Click "OK"

- Activation Wizard
    - Click "Continue"
    - Enter Activation Key from the email you received
    - Click "Activate" to complete activation and exit the Activation Wizard

- Mirrored Lane Setup - select mirrored or non-mirrored lane

- New Calibration
    - Select US or Metric units
    - Enter the lane distance
    - Use the HOTV card included with Acuity Pro to set the size of the acuity chart to 3.5" by 3.5"
    - Enter a name for the calibration
    - Click "OK" to save

- Acuity Pro will load

- If you are upgrading, you need to recalibrate, recreate custom hot key assignments or macros, and import previously added videos or photos.

Technical support is available by telephone at (580) 243-1301, Monday - Friday from 8:00 am - 5:00 pm, Central Prevailing Time. After hours support is available by email: info@acuitypro.com.

Thank you for choosing **_Acuity Pro!_**

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