

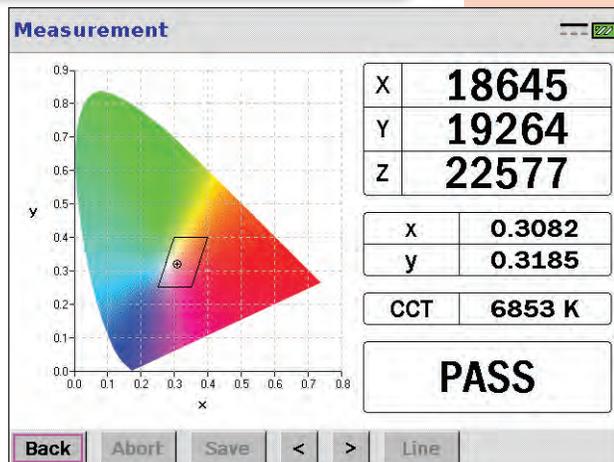
PHOTO RESEARCH®, INC.

Spectrascan®/Pritchard® Advanced Options

USER DEFINED CIE PASS/FAIL CRITERION*

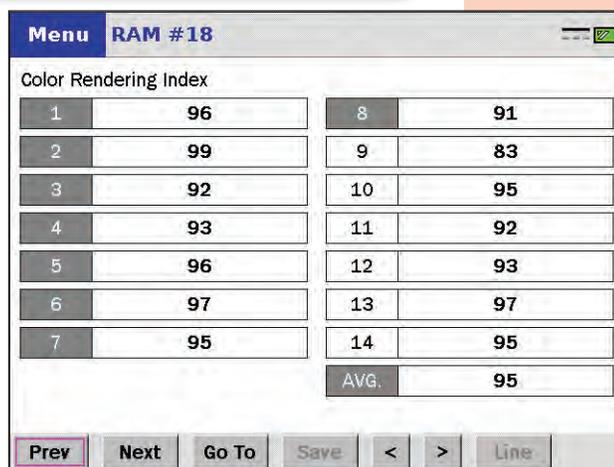
The CIE Pass/Fail option provides a convenient means of using the SpectraScan series as a "GO / NO GO" color tool. Using CIE Pass / Fail, you can create an acceptance region of various shapes and sizes. Regions can be defined as Ellipses (or circles), Rectangles (or squares) or polygons (3 - 10 sides).

After a measurement, chromaticity points that fall within the defined region cause the message "PASS" to be displayed on screen, and if the measured point is outside the region, "FAIL" is displayed. Regions are defined in the CIE 1931 Chromaticity diagram in x, y coordinates.



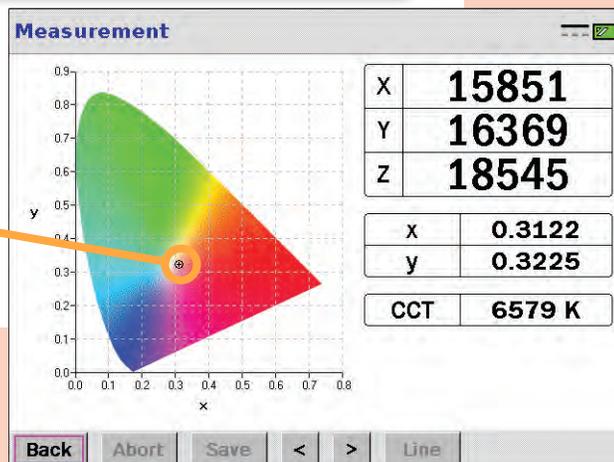
COLOR RENDERING INDEX* (CRI)

Comparing two light sources? Use the Color Rendering Index feature for comparisons between different light sources. Color Rendering Index is a good metric for testing luminaires or other light sources for their capability to render the color of an object being illuminated by that source with respect to a reference light source. Fourteen reference colors are used to determine the similarities between the test light and the standard with the first eight colors being used to calculate the average CRI. Users can select or automatically generate the reference source.



CIE COLOR CHART*

Displays full color CIE 1931 Chromaticity Diagram with measured point following a measurement.



*SUPPORTED DEVICES

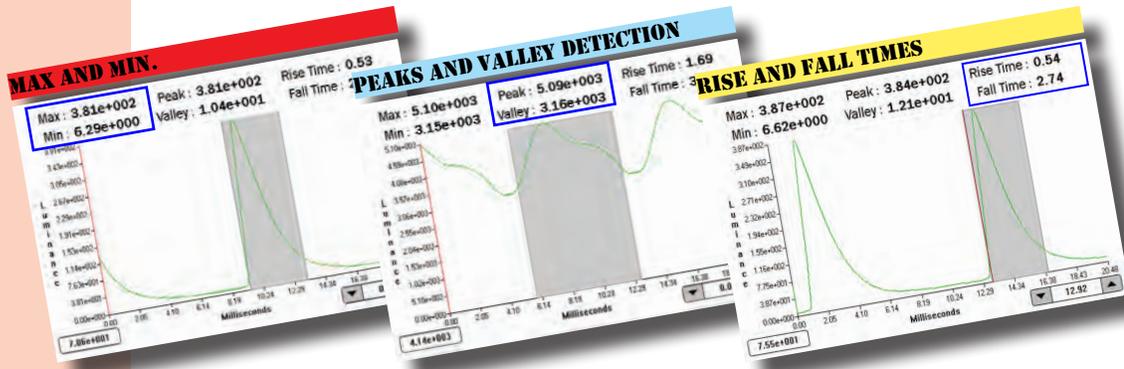
- > PR-655 SPECTRASCAN
- > PR-670 SPECTRASCAN
- > PR-680/L SPECTRADUO
- > PR-730/735 SPECTRASCAN
- > PR-740/745 SPECTRASCAN



3D/ TEMPORAL ANALYSIS†



As increasing popularity drives demand for 3D technologies across media and entertainment industries, so too does the need to characterize and calibrate these systems. Gone are the days when the calibration of displays or projector systems could rely on the 'magic eyeball'. Correct adjustment and verification requires accurate and repeatable measurements. When the proper tools are utilized the required tests can be conducted in a timely manner and insures that the images being displayed, regardless of the technology, are the best possible. Photo Research Inc., 3D Ready series of instruments allow for easy characterization of **Active/Passive 3D** systems and in general any temporal source.



Characterize

- Rise and Fall Times
- Peak and Valleys
- Dynamic Contrast Ratio
- Cross Talk
- Shutter frequency



LOW POLARIZATION

All 3D ready instruments from Photo Research minimize system polarization errors to less than 1%, assuring accurate results when measuring polarized sources, such as LCD's and 3D systems.

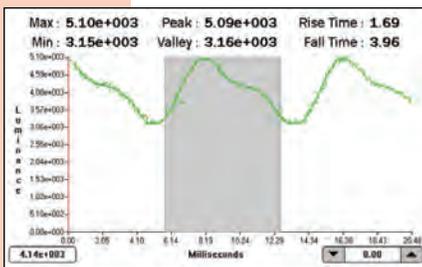
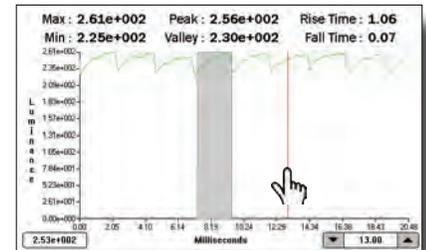


NOISE REJECTION FILTERS

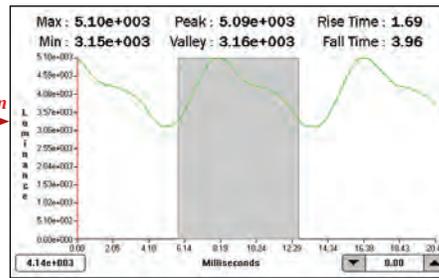
3D ready instruments feature **Frequency Response (measurement bandwidth) electronic filters**. These filters provide high frequency rejection and help to electronically average the signal.

ANALYSIS USING TOUCH INTERFACE

All 3D Ready devices from Photo Research Inc. feature a high resolution, full color touch screen LCD display for navigating the system and viewing measurement results. Need to analyze a point other than the **Peak** or **Valley** of a time based source? Simply touch the area of interest and the **on screen marker** will jump to that location. Need to pinpoint with more accuracy? Swipe your finger across the graph to the desired point or use the fine control at the bottom of the graph and the **on screen marker** will move accordingly.



600 Hz Filtration

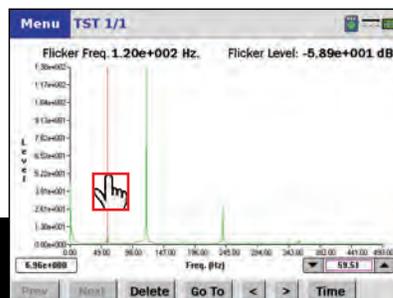


Frequency Response Filters

- 50KHz (20 μsecs)
- 20 KHz (50 μsecs)
- 600 Hz (1.67 msecs)
- 200 Hz (5 msecs)
- 10 Hz (100 msecs)

FLICKER ANALYSIS†

Display flicker characterization per VESA FPDM v2.0 305-4 and 305-5. All information including dominant flicker component and flicker modulation amplitude information is reported on the full color touch screen display. View captured data in both Time and Frequency domains.



Need to evaluate display flicker characteristics at frequencies other than the dominant frequency? Simply swipe your finger across the graph to the desired point or use the fine control at the bottom of the graph and the **on screen marker** will move accordingly.

†SUPPORTED DEVICES

- > PR-680/680L SPECTRASCAN
- > PR-805/810 PRITCHARD
- > PR-810L PRITCHARD



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