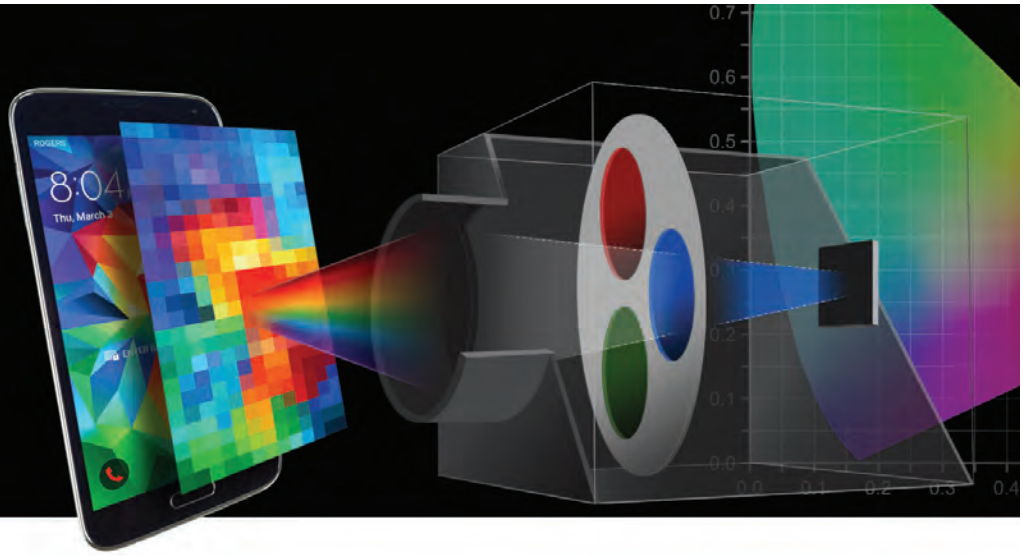
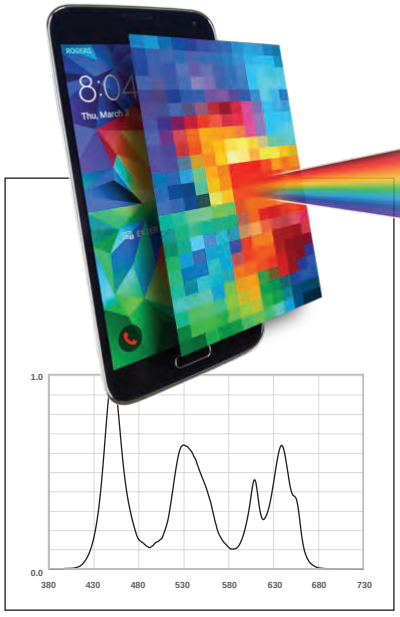
Pixel Perfect Color

CIE Tristimulus Filters for color matching applications



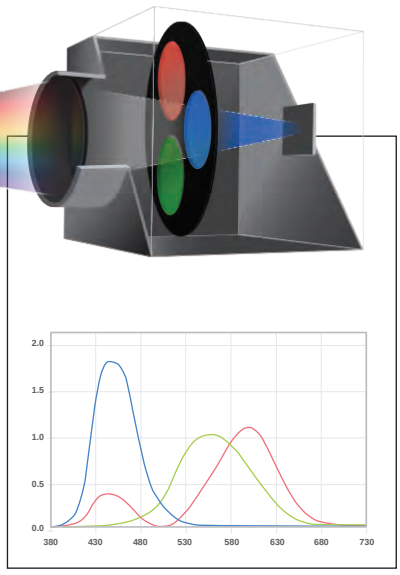
Accuracy in Display Measurement

Applications using colorimeters to measure color fidelity depend on highly accurate optical filters like Chroma Technology's Tristimulus filters.



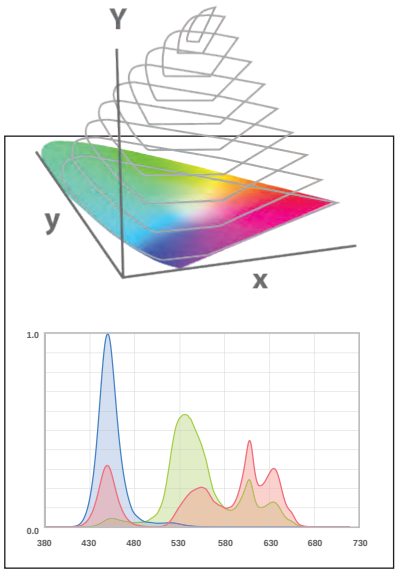
Display to be measured

Common display types include AMOLED, OLED and QLED but any light emitting display which can be calibrated should be measured.



Accurate Filters

In a colorimeter, light passes through the tristimulus filters which match the intended color matching functions. Chroma Technology also designs and manufactures Customized filters which take into account the response function of the detector and/or the spectral power distribution of a light source. Whether you need filters matching the Standard Observer functions or your own Customized functions, we've got your solution.



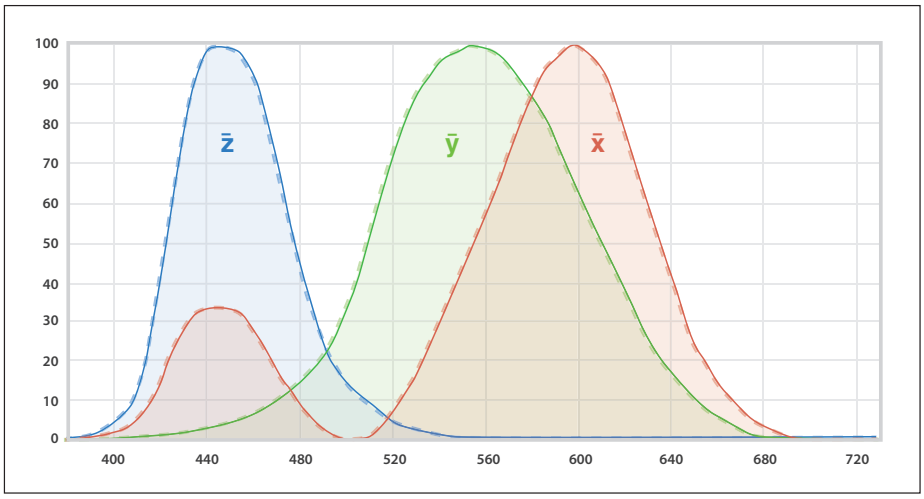
Accurate Result

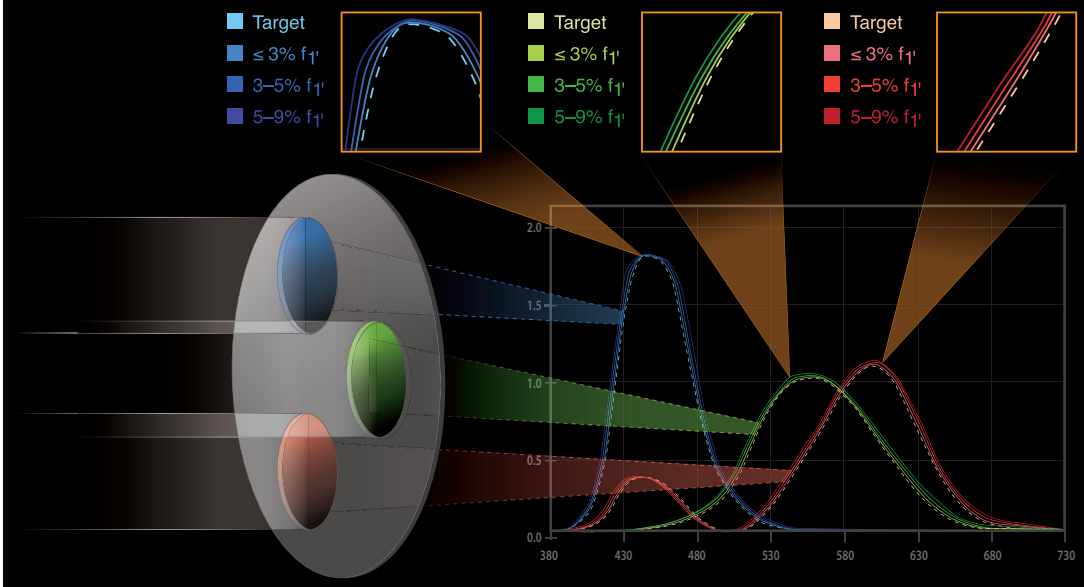
Accurate filters increase the accuracy of the measurement of your display's spectral power distribution, allowing you to accurately calibrate your display.

CIE Tristimulus Filters

Highly accurate filters with small f_1' errors matching the CIE 1931 Standard Observer. Contact us for Customized Tristimulus filters to match your detector response function and light sources.

	f_1' Error %
☑ $\bar{x}$	
☑ CIE 1931 Standard Observer $\bar{x}$	
☑ Chroma $\bar{x}$ Filter	≤ 3%
☑ $\bar{y}$	
☑ CIE 1931 Standard Observer $\bar{x}$	
☑ Chroma $\bar{y}$ Filter	≤ 3%
☑ $\bar{z}$	
☑ CIE 1931 Standard Observer $\bar{x}$	
☑ Chroma $\bar{z}$ Filter	≤ 3.5%





Stylized schematic illustrating filters being measured in the manufacturing process in a spectrophotometer.

Light passing through filters is measured wavelength by wavelength in a spectrophotometer. The graph plots the spectral curves of the three filters.

Accuracy in Filter Manufacturing

The smaller the f_1' number, the more accurately the filter matches the intended response function. With highly accurate filters matched to your Customized functions, we make the corrections for you.

Contact us to see what we can do for your application.

Chroma Technology is a 100% employee-owned leading manufacturer and OEM supplier of highly precise optical filters using thin-film coating technology. We serve a wide variety of customers using applications as diverse as fluorescence microscopy, flow cytometry, biomedical instrumentation, machine vision, multi spectral imaging, remote sensing and colorimetry.

Contact us for your custom filter solutions.

CHROMA®

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