

Medical-grade display calibration
and verification software



Why pay for overpriced medical displays?

PerfectLum calibrates almost any display to the highest medical standards.

AVOID PAYING TOO MUCH FOR SO-CALLED "MEDICAL DISPLAYS"

Calibrate any premium LCD display to the highest medical standards with PerfectLum 3.x display calibration and verification software. PerfectLum Suite not only calibrates, but also performs quality assurance tests to ensure your display conforms to the most demanding standards for the industry. The resulting higher image quality matches and can even surpass that of the most overpriced displays on the market.

ANY GRAPHICS CARD

PerfectLum Suite is compatible with any graphics card, including 13 bit Matrox and 10 bit RealVision medical graphic boards.

ANY MEASURING DEVICE

If you already have a measuring device, you probably won't need another. PerfectLum Suite works with nearly every model ever made.

MULTI PLATFORM

PerfectLum Suite is compatible with the latest versions of Windows and Macintosh OS, including Windows 7 32 and 64 bit, Windows XP, Windows Vista, Windows 2000, and Macintosh OS X from 10.4.

AUTOMATIC DISPLAY ADJUSTMENT¹

PerfectLum Suite automatically adjusts display settings over the DDC/CI channel so that you don't have to go into the display's OSD menu.

The display is automatically adjusted to a desired white level and optimum color temperature to ensure fast and easy calibration as well as high quality results.

EXTREMELY PRECISE CALIBRATION

Color calibration is performed not only on white but on all gray levels. For example, white will be at 6500 Kelvin, but so will gray 120/120/120 and 64/64/64. This ensures that the observer sees the gray levels correctly, as the aspect of an image is influenced by colors in the grays, not just luminance.

An ICC profile is generated during calibration to save color characteristics for the given device.

¹for DDC/CI-compliant displays

GLOBAL STANDARDS

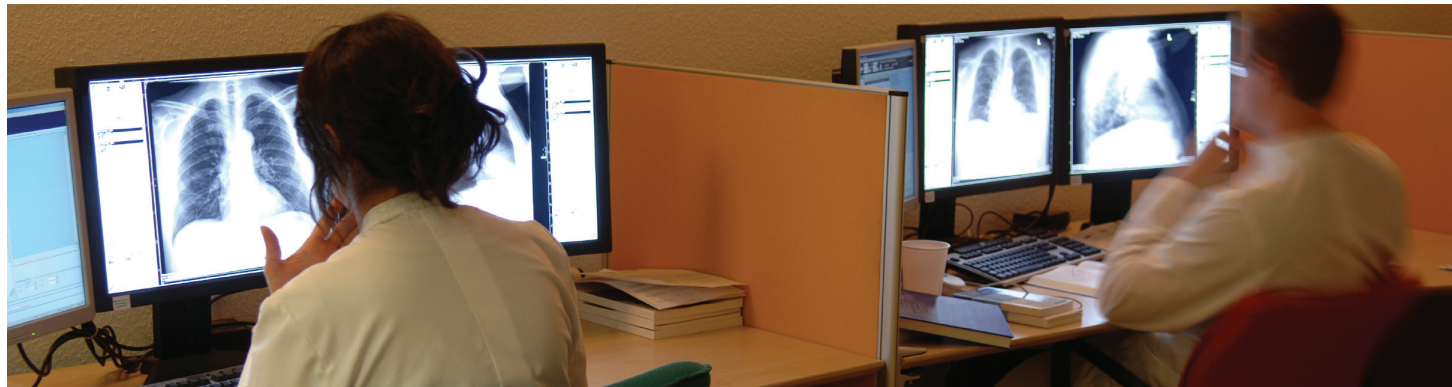
PerfectLum calibrates to international standards including NEMA DICOM part 14 GSDF, AAPM TG18, DIN 6868-57, JESRA X-0093 and IEC 62563-1. PerfectLum Suite not only calibrates a display, but also performs acceptance and consistency tests to verify that the display conforms to these standards.

HARDWARE CALIBRATION

Rather than saving on your computer's graphics card, LUT (Look Up Table) calibration is saved inside any supported display.

UNIFORMITY CORRECTION²

For example, if your display is 30% off in luminance from the center, PerfectLum can correct that down to 3%. A display with a



non-uniformity of more than 15% can no longer be used in Germany as it would not meet the German DIN 6868-57 standard. Calibrate with PerfectLum and simply continue using the display.

PERFECTLUM REMOTE MANAGEMENT

With PerfectLum Remote Management, a system administrator can perform calibration, verification and quality assurance tests for all displays in multiple hospitals and radiology practices from a single location. The system administrator can schedule calibration and quality assurance tasks for client machines, and a notifier on the client machine will remind the user to perform the task when it is due. An automatic alert system notifies the administrator via e-mail whenever a calibration or a QA test on one of the client machines has failed.

HISTORY DATABASE AND REPORTS

PerfectLum Suite provides proof of maintenance for all your diagnostics displays. After calibrat-

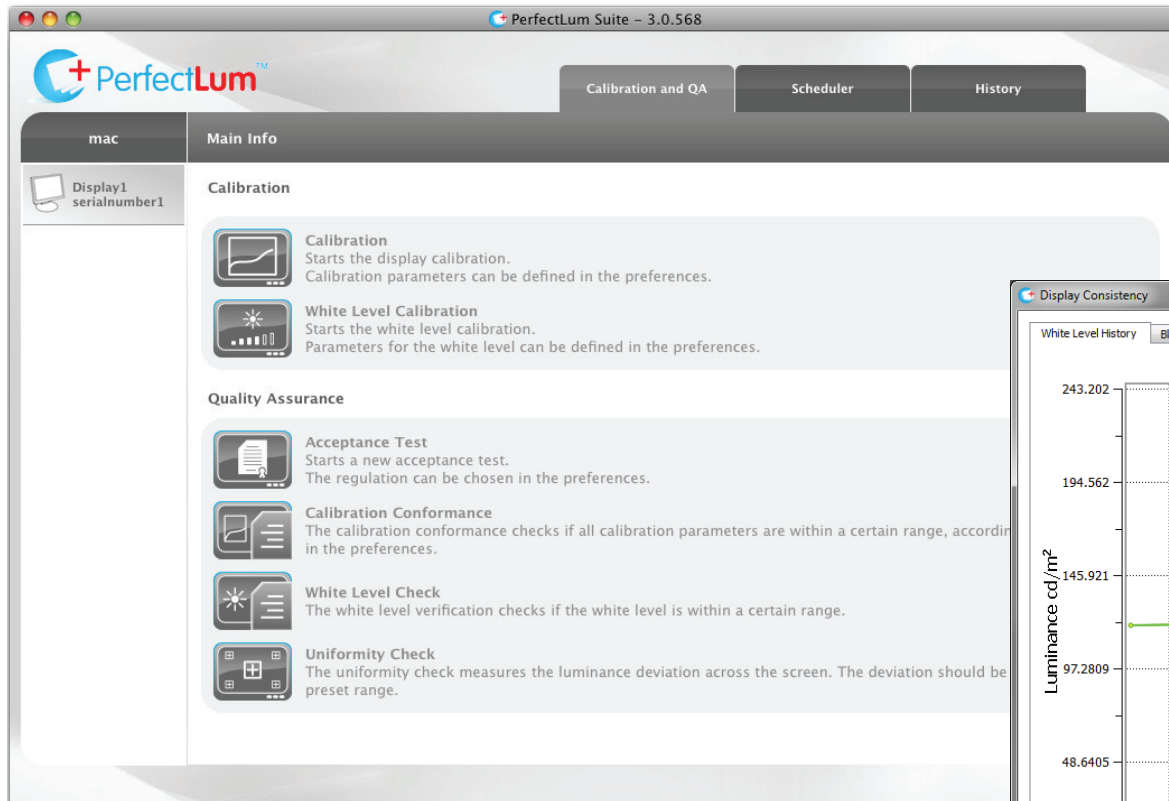
ing or using the history feature to visualize previous calibrations and verifications, simply export the report as a pdf, print and file. Automatic backup is performed for history database to ensure not a letter is lost.

VERSIONS COMPARISON

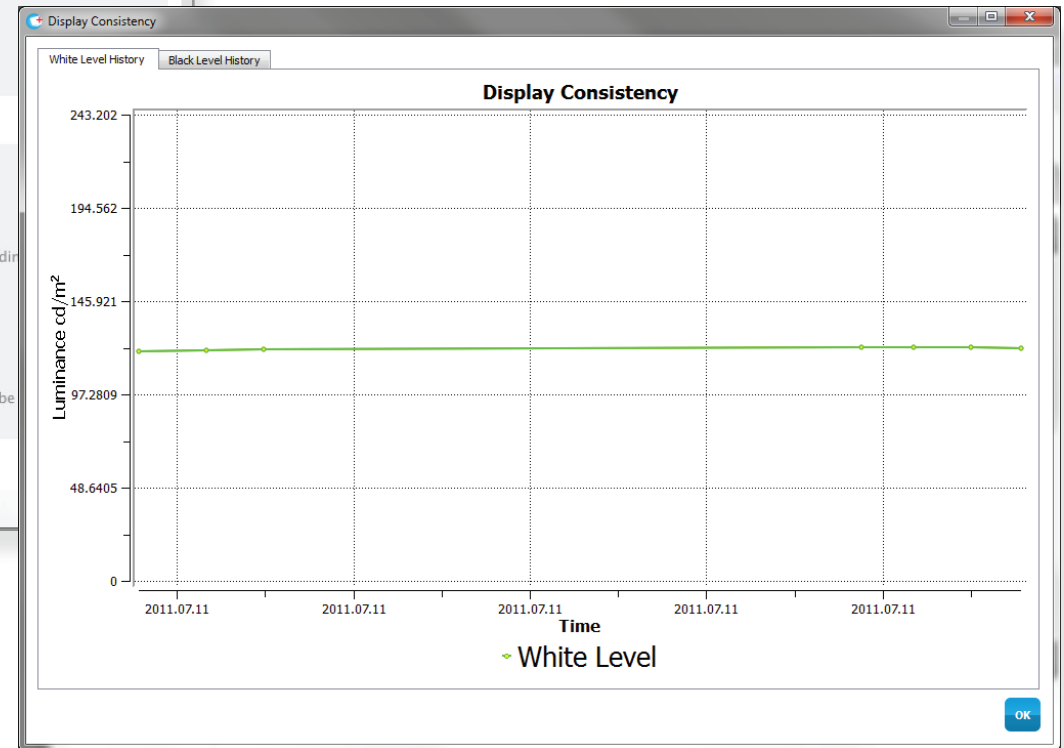
Function	PerfectLum 3.x	PerfectLum 3.x Suite
Calibrate Display	+	+
Hardware calibration and DDC/CI / USB / Serial usage	+	+
Adjust White Level	+	+
Verify calibration	+	+
Verify White Level	+	+
Verify Uniformity	+	+
Perform Acceptance Test	-	+
Perform Consistency Test	-	+
Schedule QA Tasks	-	+
Edit Settings	+	+
Edit Calibration Settings	+	+
Edit QA Settings	-	+
Measure Color	+	+
Display TestPattern	+	+
Remote Control	+	+

²only with Matrox XENIA Graphics Board





PERFECTLUM IS MAC AND WINDOWS COMPATIBLE



Qubyx is a renowned innovator in the medical imaging and color management industries, developing specialized calibration and verification software solutions since 1996.



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