DOME® by NDSsi

Doing it *Right.*

Front Sensors

The new Dome S-series displays incorporate a front-mounted sensor to take direct measurements from the front of the display. It may look similar to competitive front sensors, but it is completely different in design and functionality which makes all the difference in the world.

The S-series sensor covers the smallest amount of visible display real estate of any front sensor technology, making it the least obtrusive solution available. We use DirectRead ™ technology to mount the sensor close to the screen, unlike other solutions using a plastic light pipe to a sensor in the back. This allows us to capture more light and make more precise measurements. On the S10, we have a patented rear sensor mounted behind the front sensor to compensate for the variation in the backlight near the edge of the display. This also protects against sensor drift as the backlights age. In concert with the RightLight sensor in the back center, the three sensor approach allows us to triangulate our readings for unprecedented accuracy.

The S-series sensor allows CXtra, our DICOM monitoring software, to perform automated conformance checks without a hand-held photometer. Dome Dashboard, our enterprise monitoring software, can also perform conformance checks remotely and can be scheduled to do so as often as you would like. Dome Dashboard will log the results in a database, and automatically notify you if a display is out of conformance.

Dome's approach to front sensors differs from other vendors in one major way: calibration is never done from the front sensor. A front sensor can provide an additional level of confidence in your display's conformance, but it is not an appropriate tool to calibrate your display. Calibration requires precise measurements taken at the center of the display with a calibrated photometer. A small front sensor that does an abbreviated calibration from a less than ideal location is simply not up to the task. Performing QA from the same device compounds the problem. Dome's proven factory calibration allows the front sensor to act as an independent check. You wouldn't go back to the same doctor to get a second opinion. If there is an error with the front sensor during calibration, you are simply repeating the error in conformance testing and not validating anything. Independent conformance testing for our S-series sensor is the key to doing front sensors right.

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