

**Getting to the heart of the matter:**  
with SMfit, the peace of mind package  
for your display solutions



# display

## SOLUTIONS



## Extra user-friendly with constantly high image quality

Doctors making a diagnosis must be able to rely at all times on correct image reproduction in their medical displays. But the picture quality on displays changes if the parameters are not regularly monitored and, if necessary, adjusted. Constant checking of screen quality for medical display is therefore indispensable.

Standards such as DICOM (Digital Imaging and Communications in Medicine) prescribe internationally valid quality levels here.

### ■ One tool fits all – SMfit Total Care

Not only is every medical display from Eizo Display Technologies precisely calibrated, but you also receive the quality software SMfit Total Care, so you can work with certainty right from the start. It automatically checks all displays connected to a workstation for brightness and contrast and guarantees constant image quality simply and cost-effectively. In addition, special adjustments can be made to the display. Modalities and PACS, display electronics and diverse backlight technologies (Planon and CCFL), commercially available graphics cards and special cables, customized specifications and innovation – you have simple control of all this with SMfit Total Care.

### ■ You can be in two places at once – SMfit Site Manager

If displays have to be checked by several workstations, this is handled for you by the add-on software SMfit Site Manager, even if the workstations are spread all over the globe. If the remote diagnostics software detects that the display parameters are outside the permissible range, these parameters can be readjusted in a standard-compliant way with our photometers. Together with our high-quality displays, we offer a totally trouble-free package for every medical imaging application.

*For simple diagnostics – the quality software SMfit can adjust the image reproduction of different displays identically*



## Couldn't be better: Solutions for constantly high image quality

The best quality software is of little benefit if the associated hardware doesn't play along. Our displays offer the best prerequisites for constantly high image quality.

### ■ Displays with fully automated stability

With sensor systems as the backbone of our „fully automated stability“ solution, our displays do not have to be calibrated. The “integrated stability system” (ISS) continuously monitors the luminance of the displays and corrects it in accordance with DICOM specifications. The “integrated consistency system” (ICS) provides additional assurance by guaranteeing that the display always remains within the defined parameters.

### ■ External photometers for maximum stability

Since the accuracy of all sensors deteriorates over time, an external photometer is advisable. You can use this to periodically check the internal sensors. Together with SMfit Total Care, these special measuring devices not only enable high measuring accuracy for a range of conformity tests, they can also be used to validate the ISS and ICS independently to a documented level of accuracy in accordance with national standards. SMfit Total Care can compensate for the natural drift of the sensors, thus guaranteeing the incomparable stability and diagnostics reliability of the displays. In our portfolio, we offer you two high-

quality measuring devices that can also link direct to a monitor thanks to professional serial connections:

||| With the Serial Spot Meter SSM, you precisely measure and calibrate your monochrome displays in accordance with the current guidelines DICOM Part 14 and AAPM, as well as DIN/QS-RL, the obligatory acceptance test in Germany.



||| The Advanced Serial Luminance Meter ASLM reliably calibrates color and monochrome displays as well as CRTs in accordance with DICOM Part 14 and AAPM. It takes into account the individual color temperature and thus guarantees reliable gamma correction as well as constant color temperature for all brightness levels.



## SMfit Site Manager:

Innovative remote diagnostics – simple and user-friendly

Remote maintenance has never been as simple and user-friendly as with our SMfit Site Manager add-on that gives you complete control of your installations right round the world. It is ideally integrated into SMfit Total Care in design terms. The result is a unified software package.

With the SMfit Site Manager, you manage and maintain any number of workstations and displays from any location of your choice – over the internal hospital network or globally via the Internet. If there are maintenance jobs or important quality deadlines coming up in your installations, or if technical problems arise, you are informed automatically by e-mail. In addition, you can define any number of recipients for these notifications. With Remote Troubleshooting, you only have to go to the affected display in exceptional cases. SMfit allows you urgently needed room to maneuver, especially when you're short of personnel, and it saves you long journeys thanks to a host of automated functions.

### Keeping it all in view – with worldwide tracking

Want to keep an eye on all your displays, no matter what make? Then use our integrated asset management system. It lists your entire installation with reports, status and many other parameters, allowing you to meet legal requirements easily and fully.

State	Serial number	Manufacturer Name	Type	Last Testing Date	Next Testing Date	Examination Interval	Location	Remarks	Details
🔴	2513	FakeManufacturer	hpx	11/01/2006	11/30/2006	100 days	locationX	time's up	🔍
🟡	8807	Siemens	hpy	07/09/2007	08/03/2007	100 days	locationZ	still ok	🔍
🟢	2436	OE	hpyZ	11/09/2008	11/09/2007	100 days	locationG	perfect	🔍
🔴	136	FakeManufacturer	hpx	11/01/2006	11/30/2006	100 days	locationX	time's up	🔍
🟡	4889	Siemens	hpy	07/09/2007	08/03/2007	100 days	locationZ	still ok	🔍
🟢	2900	GE	hpyZ	11/09/2008	11/09/2007	100 days	locationG	perfect	🔍
🔴	9617	FakeManufacturer	hpx	11/01/2006	11/30/2006	100 days	locationX	time's up	🔍
🟡	2844	Siemens	hpy	07/09/2007	08/03/2007	100 days	locationZ	still ok	🔍
🟢	7652	GE	hpyZ	11/09/2008	11/09/2007	100 days	locationG	perfect	🔍
🔴	9262	FakeManufacturer	hpx	11/01/2006	11/30/2006	100 days	locationX	time's up	🔍
🟡	3577	Siemens	hpy	07/09/2007	08/03/2007	100 days	locationZ	still ok	🔍
🟢	8533	OE	hpyZ	11/09/2008	11/09/2007	100 days	locationG	perfect	🔍
🔴	5587	FakeManufacturer	hpx	11/01/2006	11/30/2006	100 days	locationX	time's up	🔍
🟡	6870	Siemens	hpy	07/09/2007	08/03/2007	100 days	locationZ	still ok	🔍
🟢	9562	OE	hpyZ	11/09/2008	11/09/2007	100 days	locationG	perfect	🔍

Add new device (not functional)

With the SMfit Site Manager, you have your installation under complete control



# SMfit Total Care:

## One software – all the possibilities

With our quality software SMfit Total Care, you have a host of ways of making it safer, simpler and more efficient to work with your medical displays.

### Control and communication: For all types

You receive SMfit Total Care with our high-quality, factory-calibrated medical displays. This professional software allows you to control all display parameters for all display types: gray-scale or color displays in LCD or CRT design. Even non-Eizo makes can be integrated.

You also have flexibility when it comes to the graphics cards: one standard connection enables digital communication (DDC) with commercially available cards as well as with our own graphics cards.

### Simple adjustment: With a host of functions

SMfit Total Care offers you extensive functions. You can, for example, adjust the look-up tables (LUTs) automatically to the brightness you desire. Or just select one of the saved LUTs in our displays to adapt the display to the ambient light.

### Simple operation: User-friendly and self-explanatory

The extensive collection of test images can be viewed in advance in an integral viewer, and frequently used images can be added to your favorites at a click of the mouse. If you are logged on as administrator, you can set up any number of new users. And everything is web-based so you're using the familiar software interface of the browser and there is the potential for global access.

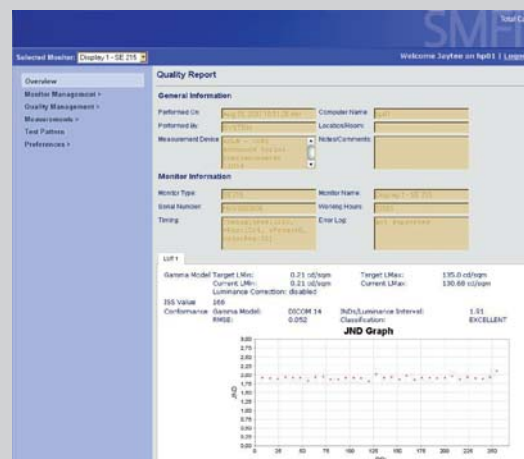
The new context-related help is especially user-friendly: Find the important information exactly where you need it.

Depending on requirements, different operating systems (e. g. Windows and Linux) are supported on the basis of a fixed program core.

### Simply unique: Calibration to modalities

SMfit Total Care also allows you to calibrate in the field, so you have displays in modalities as in mammography, magnetic resonance imaging, or nuclear spin tomography. You don't require any special equipment for this: the acceptance and constancy tests are carried out simply with a photometer and a notebook via a DVI cable.

As well as the typical PACS (Picture Archiving and Communication System) applications, displays can even be adjusted to modalities



The automatically generated quality report of SMfit Total Care shows the details clearly at a glance

