→ **Product Website**

# Software for medical professionals

Monitor quality management, including calibration as well as acceptance and consistency testing, in one programme. The software is simple, easy to use and can even perform consistency test measurements fully automatically. The RadiCS quality control tool is capable of end-to-end monitor quality management, starting with calibration and acceptance/consistency testing through to network-supported quality assurance management in conjunction with RadiNET Pro. Moreover, RadiCS is simple to understand, easy to use and suitable for RadiForce and non-RadiForce monitors. RadiCS also allows you to control EIZO's Work-and-Flow functions to deliver user-friendly workflows. This includes, for example, the Point-and-Focus function, which serves to quickly select and zoom in on relevant image areas using the mouse or keyboard.

- ✔ Optimal quality control of image reproduction systems in radiological applications
- ✔ Simple user interface for intuitive operation
- ✔ Acceptance and consistency testing according to QS-RL, DIN, PAS1054, AAPM and many other standards
- ✔ DICOM® calibration of tone value characteristic curve, including monitor self-calibration and self-diagnosis

- ✔ Fully-automatic consistency testing with monitors featuring brightness and illuminance sensors
- ✔ Archiving of calibration and test protocols
- ✔ Monitoring of the sensor inside the monitor to control brightness and the tone value characteristic curve
- ✔ Calendar with reminder function for recurring checks of reference and test patterns

# Software for Monitor Quality Management

Die Software umfasst Kalibrierung, Abnahme- und Konstanzprüfung in einem Programm. Die Software ist leicht verständlich, einfach zu bedienen und kann sogar die messtechnischen Konstanzprüfungen völlig automatisieren.

**IN RADIOLOGICAL USE**

## Optimal quality control of image reproduction systems

The RadiCS quality control tool is capable of end-to-end monitor quality management, starting with calibration and acceptance/consistency testing through to network-supported quality assurance management in conjunction with RadiNET Pro. With the measurement sensors in modern RadiForce screens for diagnostic reporting, RadiCS can even fully automate consistency testing. The software is simple, easy to use and can even perform consistency test measurements fully automatically. EIZO offers an integrated solution consisting of software and sensors, which makes quality control both efficient and user-friendly.

## Simple user interface for intuitive operation

Graphics, icons and texts are arranged in such a way that the functions are intuitive and logical based on their appearance. An overview list also allows users to immediately check the status of the monitors. The intuitive user interface makes it easy to calibrate and validate monitors.
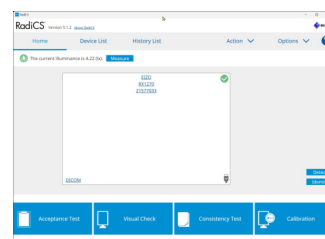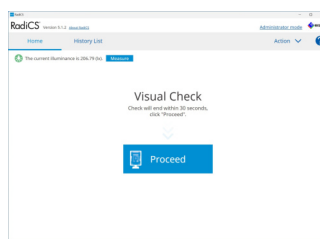
## Precision calibration

Regular calibration of monitors is key to ensuring consistently high image reproduction quality. Deviations in tone value rendering, which result even during normal use, are reliably eliminated, for example, in accordance with DICOM or CIE.
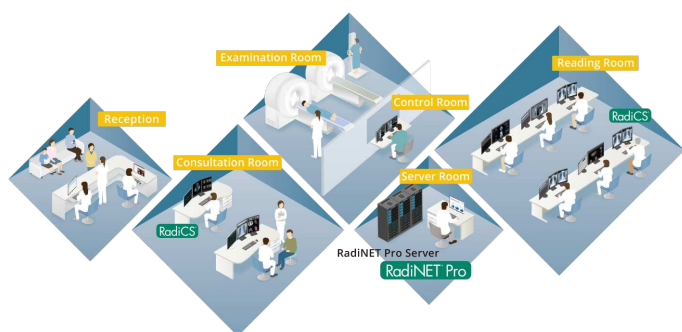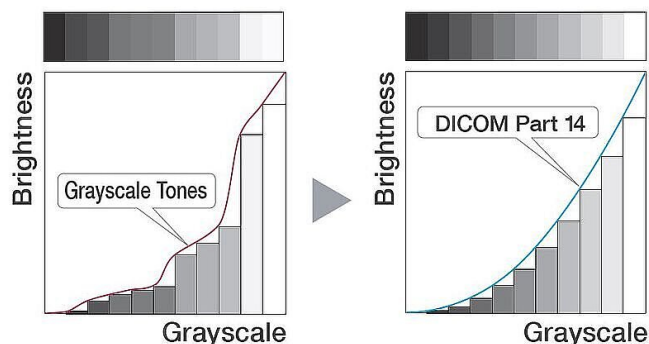
## Acceptance and consistency testing

The installation of diagnostic monitors is subject to acceptance testing. Regular consistency tests are also essential. The RadiCS software supports these operations by way of visual checks using test patterns in accordance with DIN and AAPM, as well as luminance, tone value and homogeneity measurements in accordance with DIN, AAPM, IEC and JIS. RadiCS assigns acceptance and consistency tests of body regions/methods from DIN 6868-157 to application classes to allow for unambiguous categorisation during the related testing.

## Self-calibration and self-diagnosis

RadiCS can perform self-calibration as well as self-diagnosis on the basis of factory calibration data for each respective screen. Depending on the RadiForce monitor, RadiCS uses the integrated luminance sensoror built-in backlight sensor for calibration. Self-calibration is performed quickly without a separate measuring device. If unstable or altered brightness levels are detected, an error message is output by the self-diagnosis function indicating that the hue curve requires recalibration. Self-diagnosis can be configured so that it is performed automatically at regular scheduled intervals.
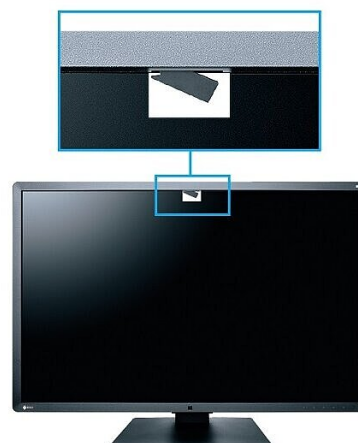
## Flexible scheduling

The time for carrying out quality control tasks such as daily visual checks or semi-annual consistency tests can be customised according to the requirements at the respective workstation, for example, when the PC is switched on or immediately after a specific application has been launched.
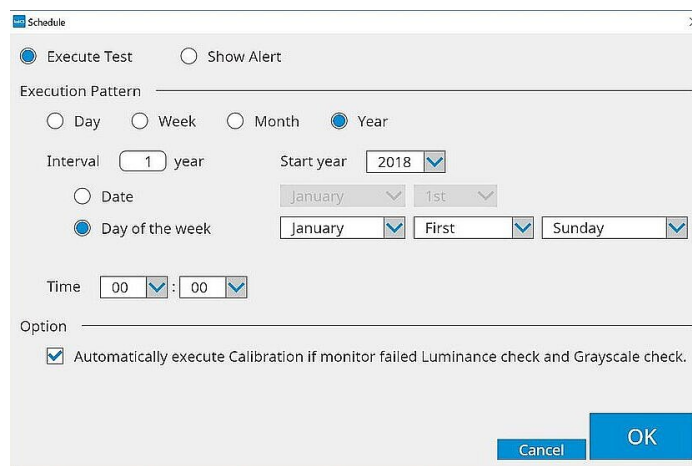
## Work on a Virtual Desktop Infrastructure

Virtual desktops are becoming increasingly popular in the medical field in an effort to improve work efficiency, reduce costs and save space. RadiNET Pro makes it possible to centrally manage client monitors from a virtual desktop infrastructure.
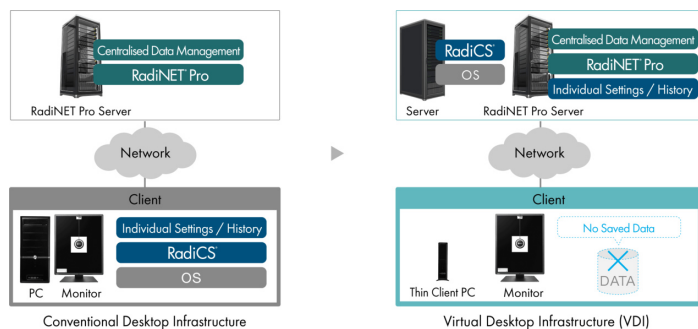


## Optimised diagnostics workflow

To increase work efficiency, EIZO's Work-and-Flow function offers various features in order to provide user-friendly workflows. This includes the Point-and-Focus functionality that makes it possible to quickly select and focus on relevant image areas using the mouse or keyboard. By adjusting the brightness and greyscale levels, surrounding areas are darkened and interesting image regions are highlighted.

More information about the Work-and-Flow functions
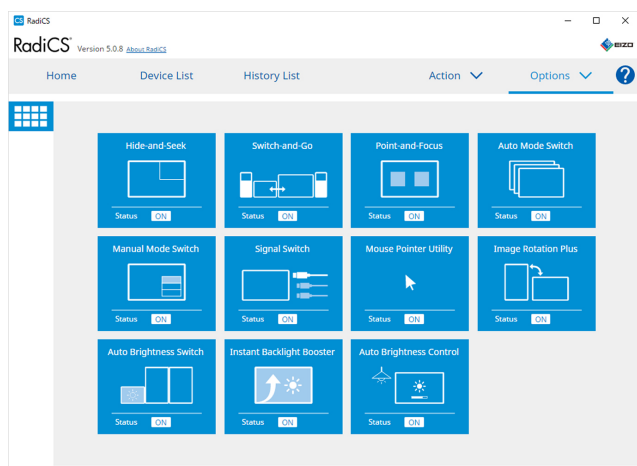


## Improved concentration

When interpreting images, the bright screen of a patient list on an external monitor can be distracting. With the Auto Brightness Switch function, the brightness of a

connected FlexScan EV-Series monitor automatically dims when the cursor is moved out of the screen. This makes it easier to concentrate on diagnostic images and also saves on power consumption.
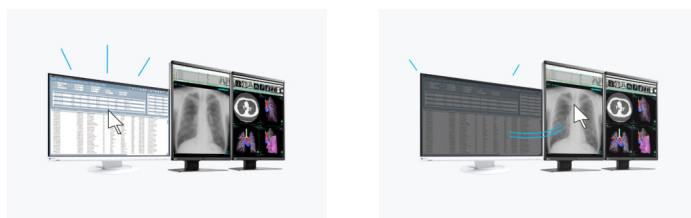


**Bright screen**                    **Brightness down**

## Save Power with Ease

With the Monitor Power Switch function, all monitors can be turned on or off just by touching one monitor. When leaving your desk, switching off all monitors is quick and easy.*

*This feature is limited to EIZO monitors connected via USB.



## Documentation

Measurement results from calibration operations, monitor validation checks and self-tests are archived for each monitor individually and are available for future reference.

## Asset management

Device and model names, the names of the medical institution or department, the description of the installation location as well as other information on each monitor, computer and graphics board can be documented and archived.

## Extended service life thanks to automatic shutdown function

The automatic Backlight Saver shutdown function for the backlight on EIZO RadiForce screens can be configured using RadiCS. This extends the service life of the monitors. Similar to a screen saver, they turn off the backlight when the monitor is not in use.

## Universal compatibility

Numerous functions offered by the EIZO RadiCS software are also compatible with non-RadiForce monitors. This means that monitors from other manufacturers can also be managed simply and easily.

# Technical Data

## FEATURES/OPERATION

| | |
|---|---|
| **Article no.** | UX2-KIT, RadiCS-Up-V5x |
| **User modes** | User (without password) and administrator (password-protected) |
| **Functions in user mode** | Daily testing, documentation, optional constancy test and work & flow functions |
| **Functions in administrator mode** | All user functions, master data maintenance, monitor configuration, editing test bases, etc.. |
| **Work-and-Flow functions** | Point-and-Focus, Switch-and-Go, Hide-and-Seek |
| **Supported luminance meters** | LX-Can, LX-Plus, CDmon, CA-210/CA310, MAVO-Spot 2 USB, RaySafe X2 Light, integrated sensors |
| **Luminance characteristic curves** | DICOM Part 14 GSDF, CIE, exponentiell (Gammawert), loglinear, linear, benutzerdefiniert |
| **Supported interfaces** | USB, RS232C, DDC |
| **Languages** | German, English, French, Chinese, Japanese |
| **Included in delivery** | UX2-KIT consisting of RadiCS version 5.x on DVD-ROM (RadiCS, user manual) and a UX2 sensor, RadiCS-Up-V5x - software upgrade for users of RadiCS version 3.x or 4.x |
| **Optional accessories** | Additional UX2 calibration sensor for medical monitors |

## COMPATIBLE OPERATING SYSTEMS

| | |
|---|---|
| **Windows** | Windows 11 / Windows 10 / Windows 7, 7 SP1 / Windows Server 2019, 2016 Standard / Windows Server 2012 R2 Standard |
| **Mac** | macOS Catalina (10.15) / macOS Mojave (10.14) |

## QUALITY MANAGEMENT

| | |
|---|---|
| **Test methods** | Manual input, external measuring devices with data connection, internal monitor sensors |
| **Ambient light test** | manually, continuously and automatically as part of the checks |
| **Supported quality control standards** | DIN 6868-157, QS-RL "Qualitätssicherungs-Richtlinie", DIN V 6868-57, ONR 195240-20:2017, PAS 1054, IPEM Report 91, EUREF "European Guidelines for Quality Assurance in Breast Cancer Screening and Diagnosis Fourth Edition", AAPM On-Line Report No.03, ACR-AAPM-SIIM "Practice Guideline for Determinants of Image Quality in Digital Mammography", New York State Department of Health Bureau of Environmental Radiation Protection Guide for Radiation Safety / Quality Assurance Program Primary Diagnostic Monitors, NYC Quality Assurance Guidelines for Primary Diagnostic Monitors, JESRA X-0093 * B-2017, Quality Control Manual for Digital Mammography (Japan) |