

4.0 Functional principle of real-time proofing with the caddon can:view system

It is almost impossible to reliably assess colours on a traditional display. Even if the display is perfectly calibrated, the ambient light and colours affect the viewer's perception. Replacing proof printing on a display with soft proofing therefore requires extensive and complex measures.

The Forschungsgesellschaft Druck e.V. (Print Research Association, Fogra) has developed a manual on the establishment and certification of such a soft proofing workplace.

The manual envisages installing a monitor in a standard light rack, which in turn must be located in a room painted in grey. Windows in this room must be covered with special filter film.

Once the room has been set up correctly, the brightness of the standard light rack precisely dimmed to match the display brightness, the display correctly profiled and the angle between the print sheet support, display and standard light panel set precisely, you can have this single workplace certified by Fogra.

The question „Is there not an easier approach, one that is workplace independent and process assured, that is, that does not rely on our setting up each workplace autonomously, and continuously ensuring its reliable continuous operation?“ is one that can safely be answered with a „Yes“ today.

With the **can:view**, the environmental influences play a less important role, as they can be masked to a great extent with a single action; the residual ambient light is determined and compensated for spectrophotometrically. Logged viewing of the print data therefore occurs under optimal and controlled viewing conditions; in particular, the **can:view** system visualises the multi-spectral patterns generated with the **can:scan** in an unprecedented quality. The **can:view** is the world's only system that is Fogra-certified as a system, without needing individual calibration work. Successfully performing an automated ambient light measurement and profiling, completes the work for setting up the **can:view**.

There is no need to replace bulbs, unlike in a legacy standard lighting system.

In addition, the **can:view** LED light engines have drastically lower reciprocal tolerances (ΔE 0.2 metrologically determined with a Konica Minolta CS 2000) than is the case with conventional fluorescent lighting. These have reciprocal tolerances that are quite easily visible.

The globally patented **can:view** method allows physical patterns to be superimposed directly on the **can:view** display and thus visually compared with their representation on screen over the shortest possible distance.

Media wedges that can be shown on screen provide metrologically logged evidence at the time of print data release. This additionally allows for a logged calibration of the reproduction accuracy between multiple **can:view** systems at different locations in real-time (avoiding the need to mail hard-copy proofs)

This makes caddon's **can:view** sampling workstation the best prerequisite for efficient control and proof processes in the printing industry.