

Colour-control options added to DALI-2 certification program

DALI-2 testing now includes RGBWAF and xy colour types along with tunable white.

Piscataway, NJ, USA – October 19, 2021 – Additional methods to control the colour output of light sources have been added to the DALI-2 certification program, which is operated by the DALI Alliance. DALI-2 certification is built on open, international standards and is focused on device interoperability, backed by independent verification of test results.



As the leading globally-standardized protocol for digital lighting control, DALI enables several alternative methods – known as colour types – that can be used to control the colour output of LEDs and other light sources.

The DALI Alliance has added DALI-2 tests for LED drivers and other control gear that use two colour types, known as RGBWAF and xy. These DALI-2 options are now available alongside colour type Tc (widely known as tunable white).

Colour type RGBWAF allows simple control of up to 6 individual channels of colour (red, green, blue, white, amber and free colour). For more sophisticated control, colour type xy allows precise and repeatable selection of the colour coordinates from the CIE colour space chromaticity diagram. Colour type Tc allows control of the correlated colour temperature (CCT) along the black-body line, from warm white to cool white. Colour types Tc and xy allow calibration of the light-source and control-gear combination, enabling higher colour accuracy.

“The combination of colour control and the standardized DALI dimming curve provide a powerful tool for lighting designers and other users. DALI scenes allow recall and smooth fading of colour as well as brightness,” says Paul Drosihn, DALI Alliance General Manager. “The new options for colour control are an important addition to the DALI-2 program, and strengthen market confidence in the interoperable behaviour of DALI lighting-control devices.”

DALI-2 certification requires the product to successfully pass a rigorous and comprehensive set of tests based on the international standard IEC 62386. The DALI Alliance independently verifies the test results, and then lists each certified product in its online [product database](#), providing public traceability.

The DALI-2 tests for control gear with colour control are developed and maintained by the DALI Alliance, based on Part 209 of IEC 62386. Control gear in Part 209 are also known as device type 8 (DT8).

DALI-2 certification is now available for the following product types:

- Tunable White: Devices using colour type Tc only
- RGB Colour Control: Devices using colour type RGBWAF only
- Multi-type Colour Control: Devices where all 3 colour types (Tc + RGBWAF + xy) are available in the same product.

Please visit the DALI Alliance website for more information on [DALI colour control](#).

About the DALI Alliance:

The DALI Alliance (also known as the Digital Illumination Interface Alliance or DiiA) is an open, global consortium of lighting companies that drives the growth of lighting-control solutions based on internationally standardized Digital Addressable Lighting Interface (DALI) technology. The organization operates the DALI-2 and D4i certification programs to boost levels of cross-vendor interoperability. As lighting continues to evolve and converge with the IoT, the DALI Alliance is also driving the standardization of wireless and IP-based connectivity solutions. For more information, visit www.dali-alliance.org.

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