

SIPLACE LED Pairing

RELIABLE AND EFFICIENT LED PLACEMENT



SIPLACE LED Pairing represents a huge advance in the quality and efficiency of the LED placement process. The software administers LED brightness classes and automatically assigns matching resistors. In combination with SIPLACE Setup Center and setup verification, it is the perfect tool for preventing yield-reducing program changeovers, unintended brightness class changes or faulty LED-resistor combinations – even on dual-sided boards.



LED placement is a growth market, but poses special challenges for electronics manufacturers. Managing LED brightness classes in placement programs is particularly complex and poses a treacherous source of errors. For production reasons, the brightness of LEDs varies from unit to unit, which is why they ship in different brightness classes as identified by their bin code. To compensate for these differences, LEDs of different brightness classes must be combined with appropriate resistors during the placement process. Thanks to LED Pairing, this mandatory requirement can now be implemented as part of the regular placement program.

SIPLACE LED Pairing is the solution

- A single placement program instead of a separate program for each LED-resistor combination
- No troublesome manual brightness class management
- No accidental setup or retrofitting of LEDs with a different brightness class
- No waste resulting from faulty LED-resistor combinations – even on dual-sided boards

SIPLACE LED Pairing

LED technology permeates more and more application areas – from vehicle taillights, headlights and dashboards to luminaires and medical technology. Customers and applications increasingly demand that all LEDs on a board have the same hue and brightness.

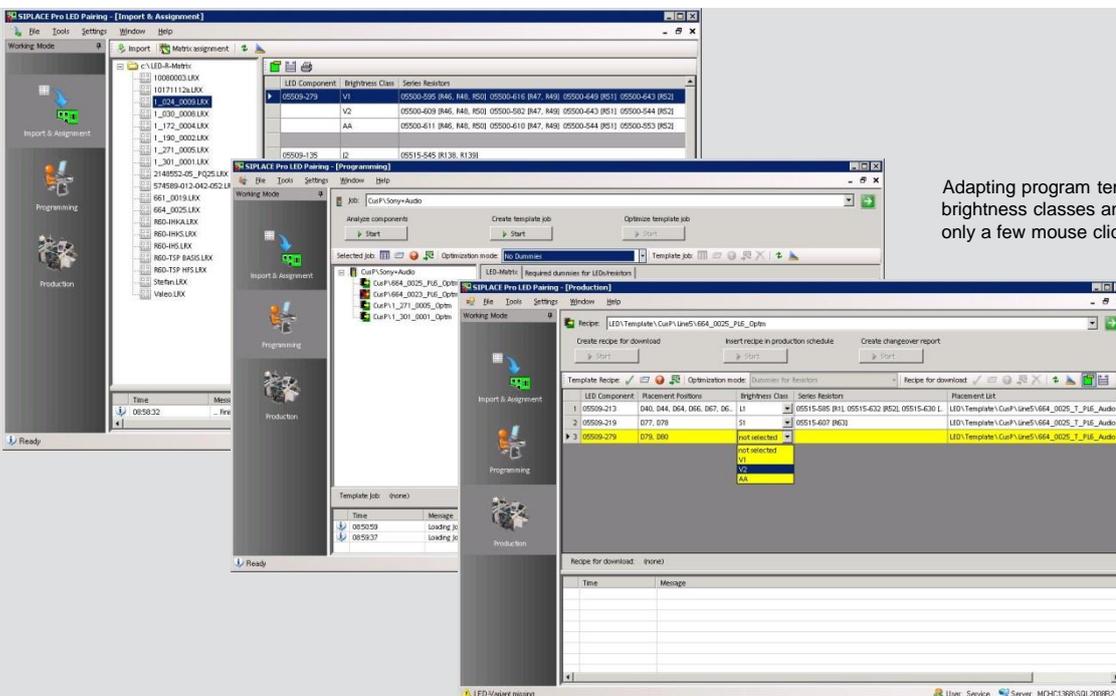
Benefits of SIPLACE LED Pairing

- A single placement program with all permissible LED-resistor combinations for a product.
- Automated assignments instead of error-prone manual changeovers.
- Dual-sided placement: The system controls the relationship between LED and resistor even if the components are spread over both sides of the PCB.
- Combinable with setup verification via SIPLACE Setup Center.
- Residual quantity check for homogeneous placement: If the remaining quantity of LEDs of a certain brightness class is insufficient for the complete placement job, the placement process will not start

With SIPLACE LED Pairing you manage brightness classes and associated resistors and adapt your placement programs automatically. In combination with setup verification, your LED placement process will run uninterrupted and trouble-free.

Integrated into the SIPLACE Software Suite:

- SIPLACE LED Pairing works on all SIPLACE placement machines in combination with SIPLACE Pro (9.3 or higher) and SIPLACE Setup Center (4.2 or higher).
- SIPLACE Setup Center verifies each setup and LED brightness class to prevent faulty placements.
- Any changes in brightness class and resistor combinations get stored in the Traceability data.
- SIPLACE LED Pairing is programmable via SIPLACE Pro.



Adapting program templates to different brightness classes and resistors takes only a few mouse clicks.

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