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Connectivity enables passengers to take complete control over the Clematis cabin lighting system

1. The Clematis user interface

The latest lighting system from Sela is a smart LED full-spectrum LED lighting system called Clematis. The idea is that passengers can manage any cabin atmosphere easily, controlling lighting scenarios from their smartphone, tablet or wi-fi hub.

Sela says Clematis uses high-efficiency LED colour mood lighting fixtures and can be interfaced with any CMS. The system is compatible with various full colour and full white lighting sources offered by Sela, including RGB-W LED tubes, LED spotlights, LED reading lights, LED snake lights, LED star lights, LED carpet and strip lights and decorative lights.

In full-colour or white-light configurations, the light rendering is not limited to a bluish white; the colour rendering index is about 87% of the sun's spectrum.

Through the use of a standalone dimmer sequencer unit, called the LMCU, lighting colours and brightness effects can be controlled simultaneously and scenarios can be created and stored. The LMCU can drive any Sela lighting source, from one full colour way to four white colour ways.

The LMCU can either control lights by itself or follow instructions provided by CMS through Sela's Master Light Unit (MLU). The MLU is a master box designed to check and manage the

complete cabin lighting system in each room through an Ethernet, wi-fi or Bluetooth connection. Up to 124 LMCUs can be controlled by the MLU.

The MLU has been developed with the main goal of facilitating lighting scenario programming. Following a cost target from the beginning of the development, Sela says programming, configuration, lighting effect build up and fine-tuning are now quickly and simply accessible. This master box also includes a web server that checks that the entire cabin lighting system is operating correctly.

The MLU is a smart box with four Ethernet inputs and wi-fi connectivity, giving a simple interface for any control inputs. One of the Ethernet links is dedicated to enabling video features such as synchronising the lighting colours with a movie. The MLU is also equipped with four audio inputs, so the system can produce lighting colour variations in sync to music played in the cabin.

In addition, this smart box has been designed to enable multiscreen management. From the cabin crew's fixed touchscreen to personal mobile touchpads, the MLU is a multisite electronic platform.

All the lights are synchronised in terms of brightness and colour and various scenarios can be programmed and then adjusted throughout the aircraft's completion in accordance with the customer's requirements.

The Clematis system has already been installed on five ACJ 319s and retrofitted on two Falcon 50s.



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