

## 11 OPERATION GUIDE

The araya<sup>5</sup> Color Tuning Modules CTM 109, CTM 112, CTM 119 and CTM 119NR utilize standard 0-10V building controls and/or a wireless araya<sup>5</sup> Tunable Color iOS app for controlling on-Planckian correlated color temperatures (CCT), dimming values, off-Planckian color points (color tinting) using the Saturation & Hue feature, and commissioning and activating SceneSet<sup>®</sup>. This document describes how to control the CTM utilizing 0-10V controls, the iOS Bluetooth app or a combination of the two.

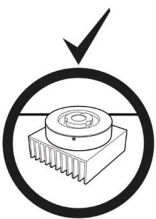
**araya<sup>5</sup> Tunable Color iOS App.** The araya<sup>5</sup> Bluetooth app wirelessly controls the CTM. The app is primarily intended to commission the CTM after installation. A MAXIMUM OF 8 MODULES CAN BE CONTROLLED AT A TIME. Each CTM has a unique address and the operator uses the app to select the desired CTM, turn power on/off and then set CCT, Dim, Saturation & Hue, and set Scene Presets. Consult the araya<sup>5</sup> Tunable Color instruction manual for detailed instructions.

**0-10V Control of CCT.** The CTM has 0-10V blue (+) and white (ground) control wire pairs to control CCT (instead of iOS app control of CCT).

**0-10V Control of SceneSet<sup>®</sup>.** The iOS app can set up to 5 Scene Presets which are recalled using a wired 0-10V controller. A scene is comprised of a CCT, Dim, Saturation & Hue level. Individual preset scenes also can be modified and activated with the iOS app.

**DMX Channel Configuration.** The CTM One modules are provided with on board DMX512-A-RDM, with DMX slots set by RDM or via wireless araya<sup>5</sup> Tunable Color 2.0 iOS app.

**On-Off Control.** The CTM may be turned on/off by switching the input power from the 12V supply. To store the settings, the lamp needs to remain on for at least 45 seconds after the CTM is initially set using the iOS app. When Scene Presets are activated using the app, the settings are stored immediately and no wait time is needed. The lamp may also be turned on/off using the app without switching the power supply, but a power draw of about 1W will remain.



**For long term reliable operation, proper heat sinking is critical.**



**The CTM diffuser is fragile. Avoid touching the diffuser during handling and assembly.**



**Do not rest or operate the CTM face down against a table or other solid surface.**