ULTAMATION UC-DMX-2XX DRIVER FOR CRESTRON HOME

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CRESTRON HOME ONLY

This document describes the configuration of the UC-DMX-2xx Platform for Crestron Home only and requires at least one physical UC-DMX-2xx device connected to suitable DMX light fittings.

For control of the UC-DMX-2xx using the SIMPL programming environment, please refer to the specific SIMPL modules and associated documentation.

MODULE DESCRIPTION

With Crestron Home OS4, 3rd party lighting can now be integrated into your systems as native lighting loads. We have developed a brand-new driver to complement the updated firmware of the UC-DMX-210 which brings this new functionality to the UC-DMX-2xx DMX controllers.

The platform driver reads a DMX lighting configuration which is created using the UC-DMX Configuration tool (available as a free download on the Ultamation shop site, from the DMX product page).

This file is monitored by the driver and if any changes are made, will automatically pick up the new configuration and create lighting loads within Crestron Home.

These loads can then be added to rooms as desired in the normal way and, once added, become part of the lighting fabric of the home, responding to scene commands and circadian cycles.

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We currently support the following lighting load types:

Type	Description
Dimmable	A simple, single DMX channel fixture.
Switchable	A single DMX channel, two-state fixture with configurable values for the On or Off states.
Tuneable	A two DMX channel fixture with Warm and Cool white LEDs – this allows blending of the channels to mix any colour temperature between the two.
RGB	A three DMX channel fixture with Red, Green and Blue channels – common for colour changing tape installations.
RGBW	A four DMX channel fixture with Red, Green, Blue and White channels which can provide superior unsaturated tones by balancing the natural white channel against the RGB colour components.
RGB Tuneable	A five DMX channel fixture with Red, Green, Blue and Warm and Cool White. This is essentially a combination of an RGB and Tuneable fixture providing the ultimate in colour tone configuration.
WAC AiSPiRE Atmosphere	A two DMX channel fixture with Intensity and Calibrated Colour Temperature (CCT). CCT is a value of Warm and Cool White calibrated to a single value.
WAC AiSPiRE Aurora	A four DMX channel fixture with Intensity, CCT, Saturation and Hue. This allows for Warm and Cool White with full colour.
WAC AiSPiRE Linear Tuneable	A four DMX channel fixture with Cool White, Mid White, Warm White and Intensity – used for tuneable white linear type
WAC AiSPiRE Linear RGB Tuneable	A seven DMX channel fixture with Red, Green and Blue channels, Warm and Cool White, RGB Intensity and CCT intensity – used for colour and tuneable white linear tape.
WAC Aether	A four DMX channel fixture with Intensity, CCT, Saturation and Hue. Allows for tuneable white with saturation and hue.
WAC Color Scaping	A five DMX channel fixture with Intensity, CCT, Red, Green and Blue channels.
Custom	A DMX channel fixture that supports a customisable amount of DMX Channels. This fixture deals with raw DMX data and allows you to set channel values directly.
Colorbeam RGB (Dimmer and Strobe)	A five DMX channel fixture with Red, Green and Blue channels with intensity and strobe. Strobe feature is not yet supported in this driver.

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Adding Repeats

Version 3.2 and above requires DMX firmware V1.2.528 to support repeats. If your DMX controller is outdated, please update the firmware to this version to support repeats.

All light fixtures now support a repeat property that needs to be defined in the config tool. This value allows the fixture to be repeated across contiguous channels to drive multiple strips from a single fixture. The value should be specified to the number of repeats required and defaults to one.

Each fixture is configured using the tool, so DMX addressing, colour temp, repeat values and ramp levels are all defined in the configuration file which is then loaded to the Crestron processor from the tool.

Adding Steps

Version 3.7 and above requires DMX firmware V1.2.529 to support steps. If your DMX controller is outdated, please update the firmware to this version to support steps.

The step property needs to be defined in the config tool. This value allows an unaffected channel to be appended on the end of the fixture. This is particularly useful when paired with repeats or the custom fixture type, allowing you to embed channels in a block of repeats. The value should be specified to the amount of channels to be stepped over up to a maximum of seven and defaults to zero.

Adding a UC-DMX Controller Platform

The UC-DMX Controller Platform driver will be found under:

Devices > Platform > Ultamation



Adding the Tile

Ensure a room is selected, and then click on the '+' against the UC-DMX Controller. The room for the platform driver will generally be a plant/equipment room as this isn't an element that the home owner will ever see.

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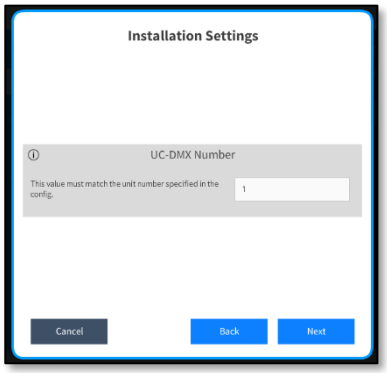
You will be asked to provide a descriptive name for the tile – this can be anything you like. You will then need to enter the TCP address of a UC-DMX-2xx. This should be a fixed address. (Multiple UC-DMX-2xxs are supported on different addresses.)

The IP Port should normally be left at the default value unless you have configured your UC-DMX-2xx specifically to use a different control port.

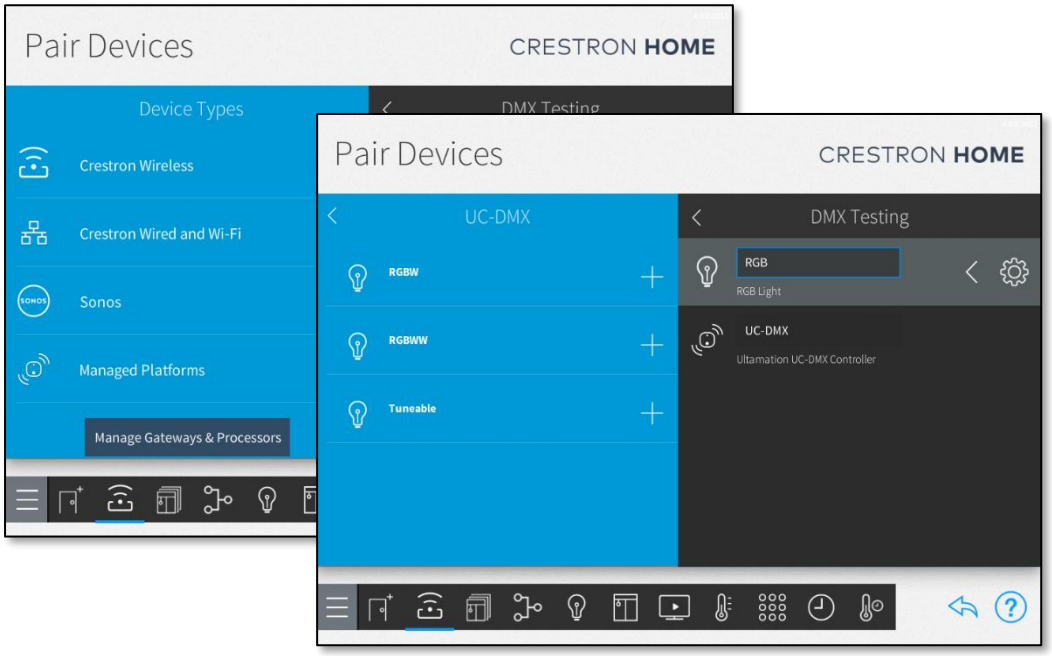
Finally, you will need to specify the "Unit Number". This MUST match the unit number defined for the configuration file. If you only have a single UC-DMX, then this will almost certainly be the default of '1'.



The unit number determines which configuration file is applied to which driver instance.

The platform driver will be added to your system and – assuming you have the correct configuration file loaded, you will now also have a collection of lighting fixtures available to place into rooms.

Return to the top level of the devices tree and you will find a folder called "Managed Platforms". Enter this folder, and you will find another folder bearing the same name as the platform device you just installed.



This folder will contain each of the light fixtures defined in the configuration file. Now add them to their appropriate rooms with Crestron Home.

Your lights will now be part of the Crestron Home system and can be configured just as easily as native Crestron lighting.

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Adding a Custom Fixture

If you are adding a custom fixture, in the configuration tool, add the Channel Names you wish to be displayed for that corresponding channel. For example, the below set up means Red = Channel 1, Strobe = Channel 2, Glow = Channel 3.

Custom Channel Extension

An extension tile, rather than a native light type. This type is for programmatically setting a number of contiguous channels to specific values.
The tile itself has simple sliders used to set values.
You can also use this with Quick Actions to set DMX channels to preset values.

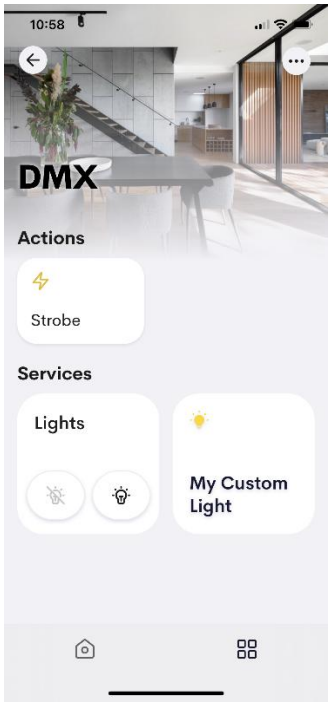
Channels:	Channel Name
	Red
	Strobe
	Glow

Configuration Example

This fixture also supports repeats; however, you do not need to repeat the names in this step. Simply just type in the number of repeats you need in the repeat channels box and the fixture will be repeated that many times.

Repeat Channels: 3

Your light will appear as a separate Tile, shown in the specific room you have placed it in. This is shown in the image below where the Custom Fixture is named “My Custom Light”.



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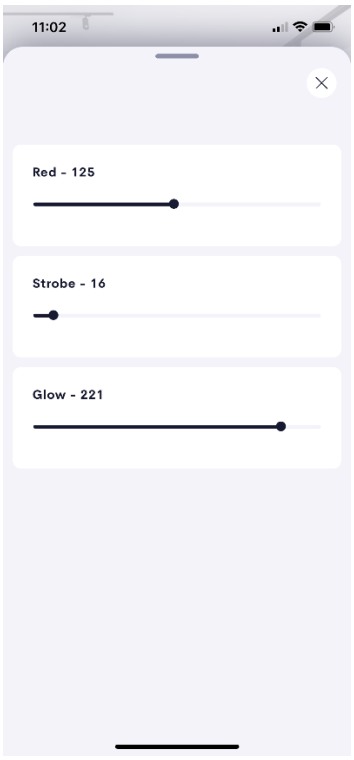
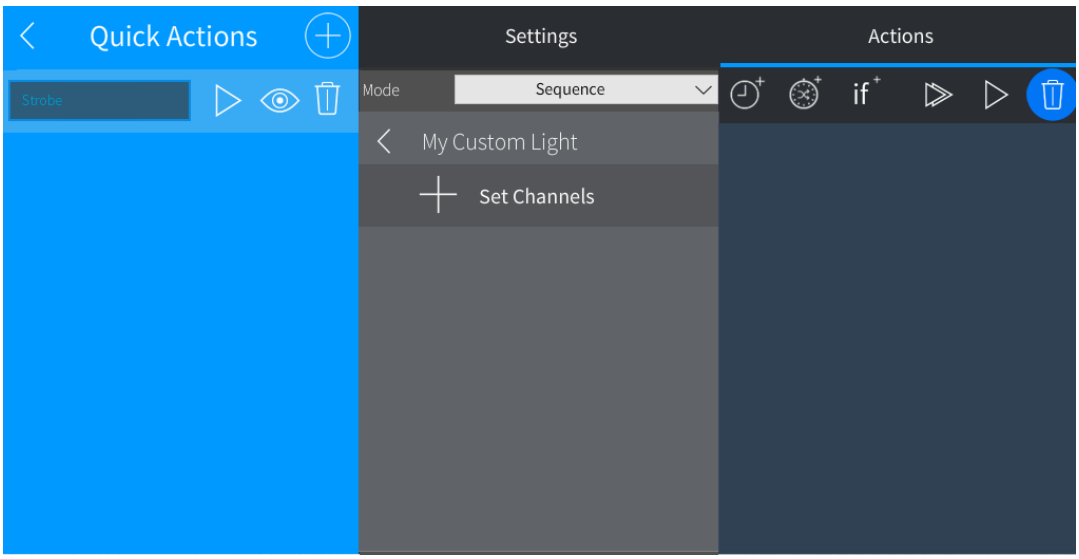
Pressing this Tile will allow you to slide to values to be sent directly to the DMX controller. The names displayed on the slider are the ones set up by you in the Configuration tool and correspond to the respective channel.



Corresponding Configuration in "My Custom Light" Tile

The Custom fixture also allows quick actions to allow you to set DMX channels directly. In Quick Actions, select your room, then the name of your Custom Fixture, then select "Set Channels".



You will then be prompted to set the values for the channels. The value is raw DMX data and will be sent to the channel specified when the quick action is called.

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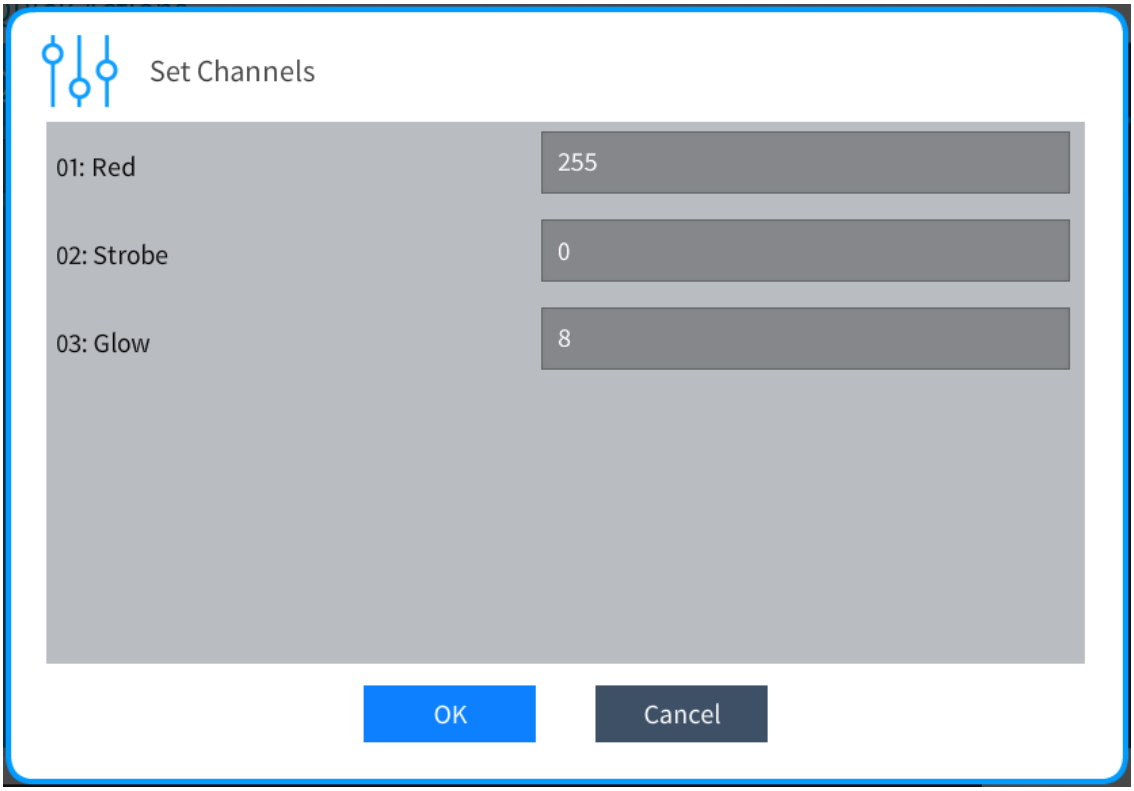

SUPPORT

If you have any issues with a driver or installation please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such a recent processor error log.

LICENCE

This module (including software, images and any, and all other associated assets distributed as part of the download package) is copyright Ultamation Ltd but is provided free of charge for use with the UC-DMX-200 hardware device. It is ONLY compatible with the Ultamation UC-DMX-2xx Ethernet DMX controller.

The module is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the module's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this module.

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