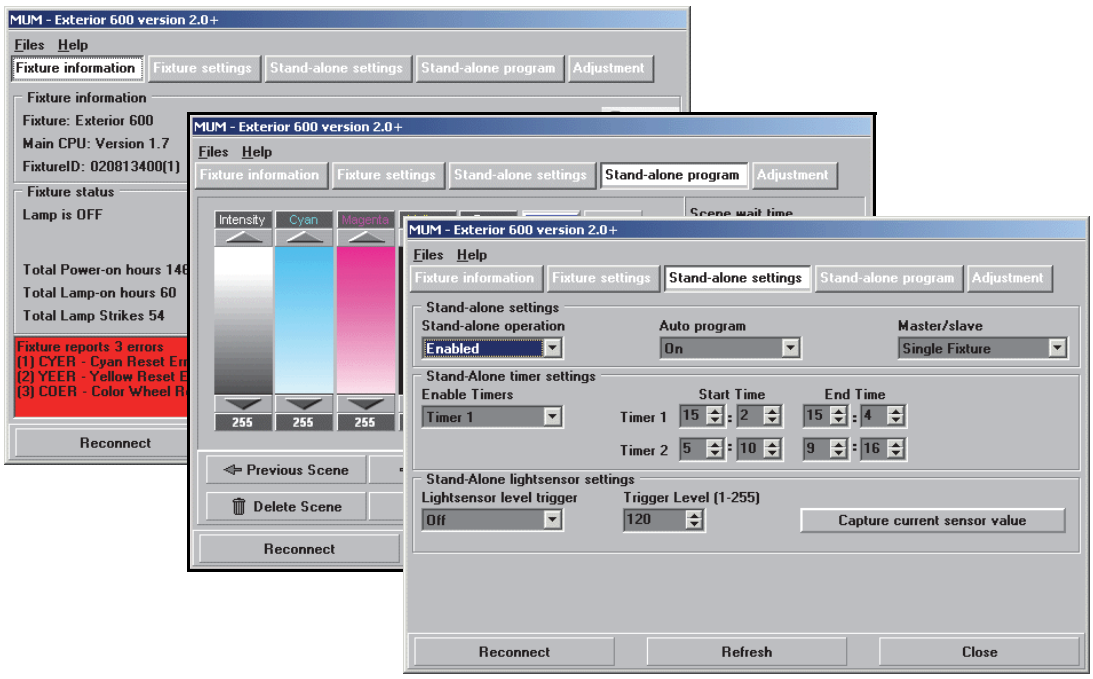
# MUM™
## (MULTI-UTILITY MANAGER)
## USER GUIDE




Martin® by HARMAN

# Contents






P/N 35000121, Rev. D

# Introduction

Thank you for selecting Martin MUM™ (Multi-Utility Manager), one of the applications in the Martin USB Tools™ suite of Windows applications and drivers for use with Martin™ products. Martin USB Tools™ is updated each time we can extend or upgrade it. The most recent version of Martin USB Tools™ is available for download from the Martin website at www.martin.com.

MUM™ is a utility with an intuitive, graphical interface that lets you manage and program intelligent lighting fixtures from Martin™ such as the Exterior range, Tripix range and Extube. For a full list of Martin™ products and Windows operating systems that are supported in the current version of MUM™, see the MUM™ product support page at www.martin.com.

MUM™ is capable of communicating with one fixture at a time only. If more than one fixture is connected, communication may not be reliable or may even fail entirely.

To connect a Windows PC running MUM™ to a lighting fixture, a Martin DABS1™ USB interface device is required (see Figure 1).

The DABS1™ interface can also be used together with the Martin Software Uploader application (also included in Martin USB Tools™) to update the firmware of a supported luminaire.


**Figure 1: DABS1™**

# Setup

To prepare for communication between a PC running MUM™ and a lighting fixture:

1. Download Martin USB Tools™ from www.martin.com and install it on a Windows PC, following the instructions in the installer. Installation can take a few minutes. Martin USB Tools™ includes MUM™ and a driver for the Martin DABS1™ interface device.
2. Obtain a Martin DABS1™, available from Martin™ suppliers:
   - DABS1™ USB Interface Box, P/N 90758090.
3. Obtain a DMX termination plug, available from Martin™ suppliers in XLR and RJ45 types:
   - DMX termination plug, 3-pin male XLR, P/N 91613017
   - DMX termination plug, RJ-45, P/N 91613028

## Connecting fixtures

1. If MUM™ is running on the PC, close the application. Connect the Martin DABS1™ to a USB 2.0 port on the PC using the USB cable supplied with the DABS1™.

   ***Note: Do not connect or disconnect the DABS1™ while MUM is running. You can connect and disconnect the DABS1™ at any other time.***
2. Connect the DABS1™ to the DMX data input socket of a supported Martin™ lighting fixture:
   - If the fixture has a male XLR DMX input socket, use a DMX cable plugged directly into the 3-pin XLR connector on the DABS1™. Martin™ can supply 3-pin to 5-pin XLR adapters if required.
   - If the fixture has an RJ45 DMX input socket, use an Ethernet cable plugged into the DABS1™ using the 3-pin XLR to RJ45 adapter supplied with the DABS1™.
3. Terminate the data link to the lighting fixture by connecting a DMX termination plug to the fixture's DMX output/throughput.
4. Power the fixture on, then launch MUM™ (located in the Martin USB Tools programs group). MUM™ will automatically recognize any supported fixture that is correctly connected.

*Note: Certain PC/Windows power saving settings may cause the DABS1™ to malfunction. If you have difficulties getting DABS1™ to work properly, disable as many power saving settings as possible including system hibernation.*

# Using MUM™

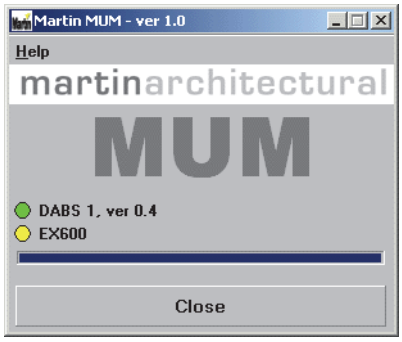
## Demo mode

Demo mode allows you to access the functions for fixtures that MUM™ supports with no fixture connected.

MUM™ will automatically enter demo mode if you start it up while no DABS1™ interface is connected. To enter demo mode, close down MUM™, unplug the DABS1™ from your PC and start up MUM™. Do not unplug the DABS1™ while MUM™ is running.

## Detecting fixtures

Once started, MUM™ will stay in 'standby' until a suitable fixture is detected. As soon as a fixture is detected, MUM™ will read some initial information from the fixture and then start the dialog specific for the fixture type. The following illustrations show MUM™, first in standby waiting for a fixture to be connected, and then when a fixture is detected and fixture information is being downloaded


## MUM™ Functions

The fixture dialogs in MUM™ will reflect the features available in the fixture type that is currently connected. Functions available for one fixture type may not be available for another. This section provides some examples of the dialogs that you might encounter. For information about specific functionality in a luminaire, refer to its user manual.

When editing functions, the relevant values are read back from the fixture. MUM does not continuously read values back from the fixture and cannot be used to 'monitor' the fixture (use the refresh function to re-read all values from the fixture).

### File Menu

Use functions in the File menu to backup and restore fixture memory and share stand-alone programs and copy stand-alone programs and settings between different fixtures of the same type.

***Download and save fixture memory to file***

Download and save a copy of the fixture onboard memory to a file on the PC. After memory download there is the possibility to attach notes to the downloaded memory file for later identification.

The downloaded memory file includes all fixture settings and stand-alone settings and program.

***Upload stand-alone program and settings from file***

Upload stand-alone program and settings from memory file – this leaves other fixture settings intact.

***Upload fixture settings from file***

Upload all fixture settings to fixture – this leaves stand-alone settings and program intact.

***Upload fixture complete fixture memory from file***

Upload complete fixture memory from file.

***Note:*** ***Not all memory settings are overwritten by an upload. Individual fixture settings such as total lamp hours and calibration values are not overwritten by an upload.***

***It is not possible to share memory files between fixture types. There may also be restrictions on sharing memory files between different versions of fixture firmware.***

## Functions common to all tabs in the interface

***Reconnect***

Re-initializes fixture communication. Use this function to connect to a different fixture.

***Refresh***

Refresh values by re-reading information from fixture.

***Close***

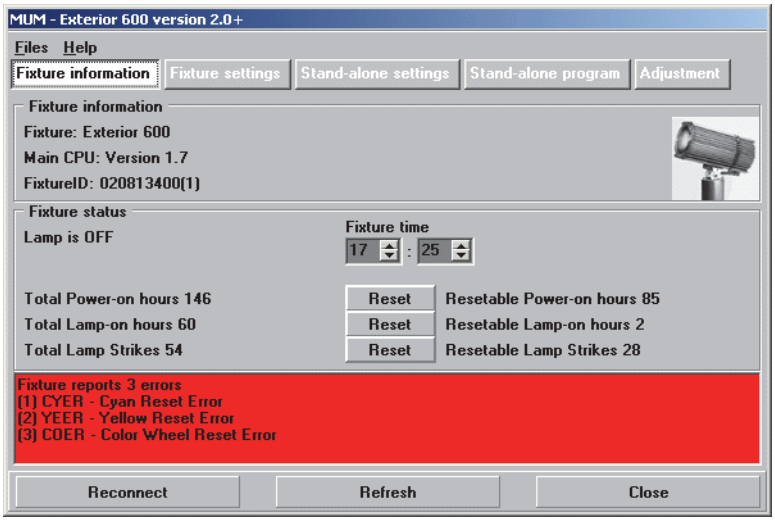
Close the application.

## Fixture information tab

The **Fixture information** tab displays various types of information for the connected fixture, including current firmware version(s). If the fixture features a built-in timer circuit and resettable timers, these may be set or reset from here.

The tab also shows errors reported back by the fixture. Note that some fixtures may display errors during the mechanical reset phase until the effects have properly reset (click refresh to re-read values from the fixture when the fixture has finished its mechanical reset phase).

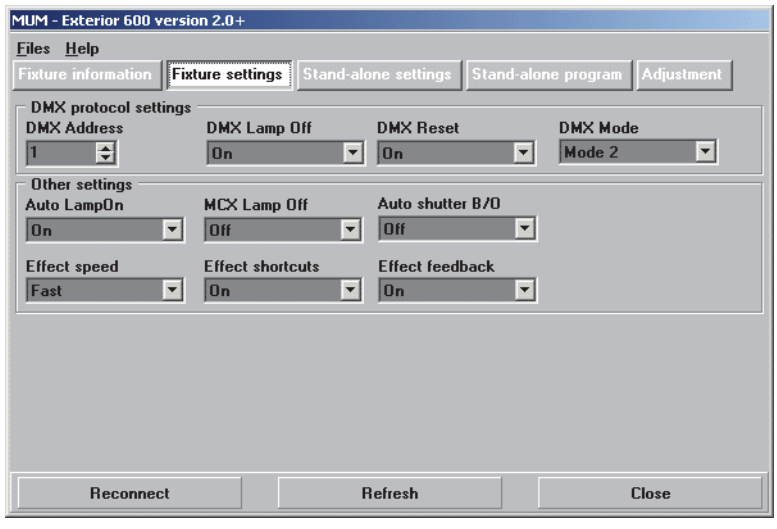
The following illustration shows the **Fixture Information** tab for an Exterior 600 displaying errors.




## Fixture settings tab

The **Fixture settings** tab displays settings for the fixture that are generally associated with running the fixture under DMX control. Values such as DMX address, DMX mode or other control-related settings may be set from this location.

The following illustration shows the **Fixture settings** tab for the Exterior 600.



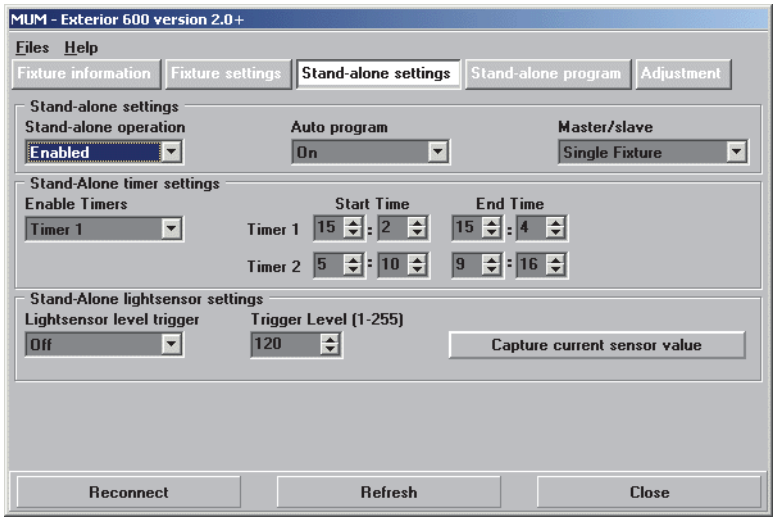
### Stand-alone settings tab

When present, the **Stand-alone settings** tab is used to display and edit various settings that are associated with the fixtures running in stand-alone mode as opposed to being controlled from a DMX console.

Please refer to the fixture manual for more information on an individual fixture type's stand-alone capabilities.

***Note:*** ***The stand-alone program itself is programmed from the Stand-alone program tab.***

The following illustration shows the **Stand-alone settings** tab for the Exterior 600.

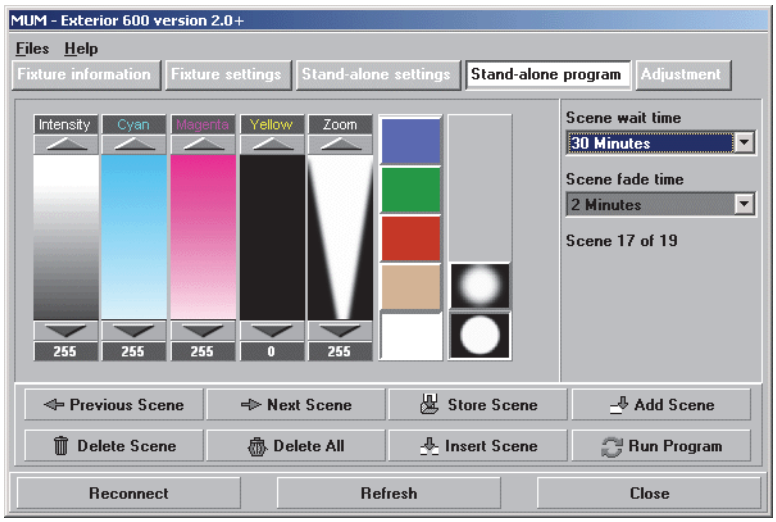



### Stand-alone program tab

When present, the **Stand-alone program** tab is used to program the fixture's stand-alone program, which is stored in the fixture's own memory. Please refer to the fixture manual for more detailed information on the fixture's stand-alone capabilities.

***Note:*** ***When editing and creating scenes in a stand-alone program, you must press the Store Scene button for changes to take effect.***

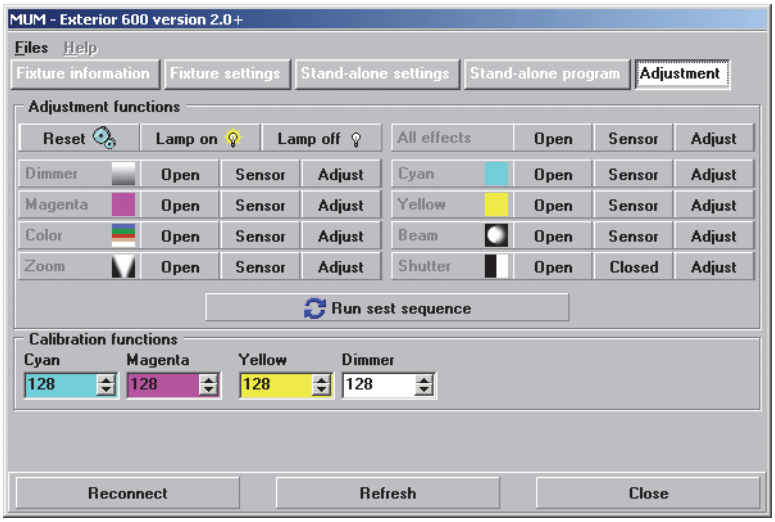
The following illustration shows the **Stand-alone program** tab for the Exterior 600.



### Adjustment tab

When present, the **Adjustment** tab may be used to send commands to the fixtures during service or mechanical adjustments. The tab also has controls for onboard fixture calibration for those fixtures that implement this feature.

The following illustration shows the **Adjustment** tab for the Exterior 600.




# Additional notes

MUM™ uses non-standard DMX commands for communication with the luminaires it supports, so connecting unsupported luminaires may cause these fixtures to react unpredictably.

The two-way communication between MUM™ and fixture will not be transmitted over a DMX opto-splitter/buffer that is designed for one-way communication only. It will be transmitted without problems over the Martin RDM 5.5 Splitter™, since this splitter supports bidirectional communication.

# Specifications

### Control and Programming

Supports wide range of Martin architectural lighting fixtures
Intuitive graphic user interface
DMX address setting
Stand-alone show programming
Synchronized (master/slave) operation setup
Stores and uploads luminaire settings
Downloads luminaire information and diagnostic messages
Automatic luminaire recognition

### Minimum System Requirements

Windows 7, Windows 8
Intel Core processor
1 GB RAM
30 MB available hard disk space
USB 1.1 (or higher) port for DABS1™ interface box
Laptop recommended for mobility at installation site

### Related Items

Martin DABS1™ USB interface box incl. cables . . . . . P/N 90758090
DMX termination plug, 3-pin male XLR . . . . . P/N 91613017
DMX termination plug, RJ45 . . . . . P/N 91613028

### Ordering Information

MUM™ is included in the Martin USB Tools™ package (free download from Martin™ website)

*Specifications subject to change without notice. For latest product specifications see www.martin.com*

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