Multi Function Test Tool

DMXcat®

CONTROL ANALYZE TEST



CITY THEATRICAL

NEW YORK • LONDON

Overview







City Theatrical's multi award-winning DMXcat® makes it easy for anyone to control, analyse, or test any DMX lighting fixture, whether it's a simple LED PAR or a complex moving light. DMXcat consists of a small hardware dongle and a suite of mobile applications. Together, they combine to bring wireless DMX and RDM control plus several other useful functions to the user's smartphone. DMXcat solves the problem faced by all users of modern lighting equipment: How to turn on an test DMX lighting gear without using a complicated lighting console. DMXcat works with Android, iPhone, and Amazon Fire.

Hardware

DMXcat's interface device is a compact battery powered unit that fits easily in a pocket or tool pouch or may be worn on a belt. It uses Bluetooth LE technology for communication with the smartphone/applications (up to 50' range). Without being physically connected, the user can move about the workspace and operate the various apps while still using the phone for on-the-job communication. The device's five pin XLRF connector/ cable assembly allows it to be connected to any point in a DMX data chain to allow testing and or control of the various DMX/ RDM slot functions. It is charged using a standard USB to Micro-USB cable and charger.

Other features include a built-in LED flashlight, an audible alarm (for locating a misplaced unit), an LED Status indicator, an XLR5M to XLR5M Turnaround, and a removable belt clip. Optional accessories include: XLR5M to RJ45 Adapter, XLR5M to XLR3F Adapter, XLR5M to XLR3M Turnaround, and Belt Pouch.

Software Applications

The DMXcat app, which includes eight apps - DMX Controller, Fixture Controller, DMX Tester, RDM Controller, DIP Switch Calculator, Light Meter, RF Spectrum Analyser, and Multiverse Transmitter (shown only when connected to a Multiverse Transmitter) - is available through Google Play for Android, the App Store for iPhone, and Amazon.com for Amazon Fire.

DMXcat is available in seven languages: Spanish, French, German, Italian, Korean, Japanese, and English, depending on



DMX Controller



Fixture Controller



DMX Tester



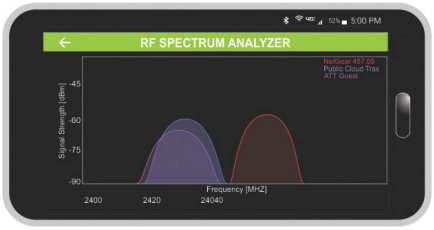
RDM Controller



DIP Switch Calculator



Light Meter (Android only)



RF Spectrum Analyser (Android only)





Applications

DMX Controller

The DMX Controller app is a flexible and feature rich means for controlling 512 channels of DMX data. Two different user interfaces are included. The first emulates a conventional slider control arrangement such as is found on many simple manual lighting controllers. Touch and swipe gestures control the various level adjustments. Users can work with and easily switch between screens displaying 8, 64, or 512 (Live View) channels of information. For those who prefer a numeric based interface similar to what is found on a full sized lighting console, command line instructions can be input using familiar keypad and thumbwheel controls. An active 16 channel display provides current channel status. With either interface, users can adjust/work with individual or ranges of channels, record and play presets, customise names, and display levels as %, decimal, or hex values.

Fixture Controller

The Fixture Controller app has been designed to serve as a setup and test tool for the vast selection of lighting fixtures in use today. Many of today's moving light fixtures use over 40 channels of DMX control data, and can be configured to operate in a dozen or more modes (profiles). This can make it difficult to identify a particular channel's function when setting up or testing a fixture with a small DMX controller. Using an extensive built in database of manufacturers, fixtures, and operational profiles, users can easily select and assign the fixture's attributes and starting address, and a control interface specific to the fixture is displayed for testing its features. The various fixtures/personalities may be saved as "favourites" for future reference.

As of 2020, this app also offers a Multi Fixture feature, with which users can group and control multiple lighting fixtures at once to save time and improve workflows.

Personality Editor

Found within the Fixture Controller app, the Personality Editor allows users to create custom personalities. Working from scratch or by modifying an existing personality, individual attributes are added as needed and then saved. Upon completion, the manufacturer name, fixture name, and personality name are added and the profile can be saved to a "favourites" database.

DIP Switch Calculator

The DIP Switch Calculator app is an indispensable tool used in the conversion of numeric values to their binary equivalents. Used when configuring DIP switches for setting DMX channels and other fixture parameters, users simply enter a three digit numeric value and its corresponding DIP setting is displayed. Both the numbering order and reading direction can be reversed to match the switch orientation as needed.

RDM Controller

The RDM Controller is an application designed to control RDM enabled fixtures. Features include:

- Control & monitoring of RDM devices
- Full discovery- detects and generates a list of all RDM devices.
- Detects all sub devices for a selected device
- Shows all supported parameters
- Shows descriptions for all PIDs
- GET and SET for all PIDs (even user defined)
- Monitors fixtures for any sensors with easy to view info.
- When connected to an RDM enabled fixture, DMXcat identifies the fixture's address and attributes and loads its control interface automatically.



DMX Tester

Connect the DMXcat to a point in a DMX data chain and view DMX information and levels. Parameters of the controller's transmitted DMX signals may be adjusted and parameters of received DMX signals may be analysed including: Break Time, Mark After Break, Inter-slot, Mark Before Break, Number Of Slots, and Refresh Rates. A Flicker-Finder function is included for identifying intermittent problems within the data network. The View Level function shows real time DMX levels sent from a console.

RF Spectrum Analyser (Android only)

Identify potential communication problems before they happen. The RF Spectrum Analyser enables the user to visualize existing Wi-Fi networks operating within a venue. Each wireless network is labeled and shown graphically within an overall schematic representation of the 2.4GHz RF channel spectrum. Armed with this information, wireless DMX operation can be optimised by adjusting the type of transmission (hopping patterns) and or locating the control network in uncrowded or unused areas of the RF Spectrum.

Light Meter (Android only)

Useful for studio work, this app offers basic reflected light measurements to help in light level adjustment for film and video production. Light levels are displayed in LUX.

Info

General product information, Hardware operation, App instructions, and FAQs are all accessed here.

Specifications

Part Number	6000
Wireless Communication	Bluetooth LE
Range	50’ (15m)
Status LED Indicator	Yes, multicolour
Flashlight	White LED
Charging port	Micro USB
DMX connection	XLR5F
Battery Run Time	20 hours
Charge Time	8 hours
Apps	8 on Android and 6 on iOS, as follows: DMX Controller, Fixture Controller, DIP Switch Calculator, DMX Tester, RDM Controller, Multiverse Transmitter (shown only when connected to Multiverse Transmitter), Light Meter (Android only), RF Spectrum Analyser (Android only)
Construction	NEMA 1 ABS enclosure
Compliance	CE, RoHS, FCC
Weight	0.3 lbs (0.14 kg)
Dimensions (L x W x H)	3.75” (95.3mm) x 1.63” (41.4mm) x 0.94” (23.9mm)

What’s in the box:



Accessories:





Description	Part Number
XLR5M to RJ45 Adapter	6005
XLR5M to XLR3F Adapter	6006
XLR5M to XLR5M Turnaround	6007
XLR5M to XLR3M Turnaround	6008
DMXcat Belt Pouch	6009
USB to Micro USB cable, 6”	6010

Specifications subject to change

AWARDS

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DMXcat is covered by U.S. Patent # 10,129,964 and other patents pending.