



# amBIENT XC

## User Guide





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# Welcome to the amBIENT XC

## **Congratulations and welcome to the amBIENT XC.**

The amBIENT XC is a revolutionary lighting control system which radically changes the way in which lighting and space are designed and how lighting combines with video and sound to create immersive entertainment experiences.

Electrify and enhance the mood of your venue with the amBIENT XC. Whether it's a club, bar, cinema, retailer or landmark lighting installation, the amBIENT XC will maximise the potential of RGB LED lights and transforms your space into an ever changing dynamic environment. The character of your venue can be changed to create ambience and mood throughout the day. You can also synchronise your lights with sound and video to create amazing effects that your customers would love.

The amBIENT XC is powered by amBX technology which is the new standard in the creation and delivery of immersive entertainment experiences. You will be amazed by the stunning array of amBX lighting effects that change your space into an entertainment venue. Your LED lights can perform vibrant swirls, dynamic ripples, colourful bounces and energetic sways all in harmony with sound and video.

This is revolutionary and now you are part of it!



# Basics

## Front Panel



Touchscreen

## Back Panel



Ethernet Video In Audio In RS232 USB DMX Power

### Touchscreen

Easy to use touchscreen interface allows you to navigate through pre-installed ambient lighting effects, change the daily schedule and alter the light settings.

### Ethernet

For network connectivity and connection to other devices.

### Video In

Allows LED lighting installation to be synchronised to video content, producing dynamic lighting effects.

### Audio In

Connects LED lighting installation to an audio source for automated dynamic lighting effects synchronised to music.

### RS232

Compatible connection to other devices and systems.

### USB

For PC connection and use with PC based amBX applications.

### DMX

Industry standard interface and connection to LED lighting installations. Single DMX 512 universe supported with 5 pin XLR connector.

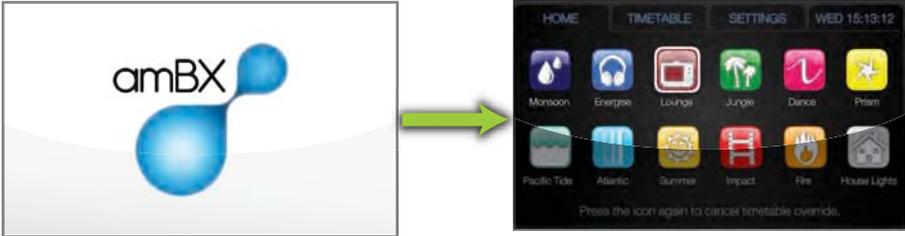
### Power

100 - 240V AC, 50-60Hz, 20W

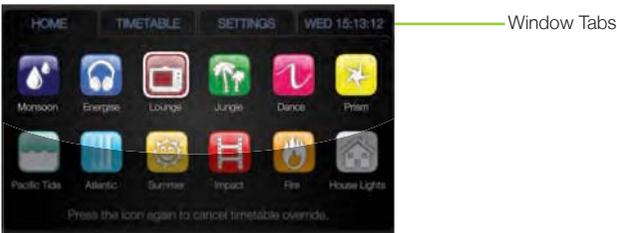
## Getting Started

Check that the power lead is connected to the amBIENT XC and turn on at the wall socket.

This powers up your amBIENT XC. When start up is complete, the HOME screen will be displayed.



## Touchscreen Features



The touchscreen allows you to choose from the 12 amBX Modes, view and edit the timetable and adjust the light settings.

There are four screens chosen by touching the window tab:

- The HOME screen is used to preview the 12 bespoke amBX Modes that your installer has designed and programmed for you.
- The TIMETABLE screen allows you to view the current lighting schedule on the seven day timetable chart, and alter it by hour for each day.
- The SETTINGS screen allows you to change the brightness and colour saturation of the lights, and the transition time between presets.
- The CURRENT TIME screen allows you to set the current day and time.

## The HOME Screen



Although the amBIENT XC comes pre-installed with 12 amBX Modes, installers will be able to create 12 new amBX Modes to suit your preferences precisely. An amBX Mode can automatically generate a near infinite combination of lighting effects triggered by audio, video and time.

Within each amBX Mode there are a set of rules which define how audio, video and light react with the space to generate mood.

Each mode has a defined base colour palette and ambient effect. How audio and video react to those colour palettes can then in turn be customised and layered over the base.

## Using the HOME Screen



Touch an amBX Mode icon to select it and override the current scheduled effects.

When you touch the icon it will be highlighted to show your selection and its lighting effects will immediately be displayed in your room until it is deselected.

To deselect the amBX Mode touch the icon again and it will no longer be highlighted.

When no amBX Mode is selected the amBIENT XC will return to playing the timetabled effects.

# Adjusting Colour Tint



The Colour Tint feature gives complete freedom to change the colour of your lights by tinting the colours in the modes from a light tint to a full block colour. Unlike BRIGHTNESS or SATURATION, tint mixes a colour of your choice with the selected mode.

For example: Running a predominantly white mode and setting a blue tint to 50% would result in a light blue mode. Setting tint to 100% (Solid Colour) will result in the selected tint colour being displayed at all times.

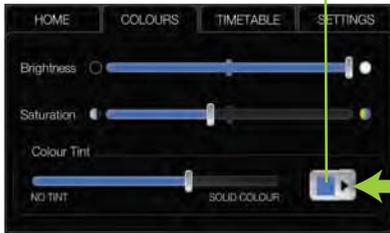
1



Touch the COLOUR tab to display colour adjustment options.

Colour Tint Button

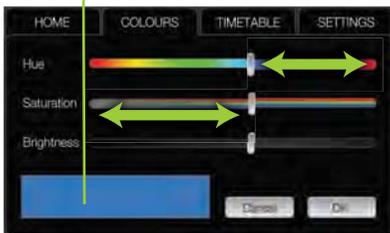
2



Touch the Colour Tint Button to edit the tint colour.

Preview Box

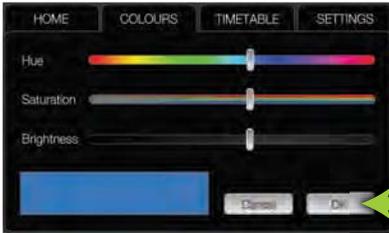
3



Adjust the HUE, SATURATION and BRIGHTNESS sliders until the desired tint colour is mixed.

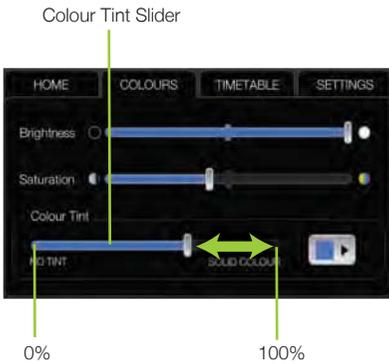
The colour is previewed in the bottom left hand corner.

4



Press OK to select the tint colour.

5



Move the Tint Slider to adjust how much all colours will be shifted towards the tint colour.

When the Tint Slider is at 100%, only the Tint Colour will be displayed.

6



Colour Tint is a global setting. Any mode you select on the Home tab will now be tinted.

To remove Colour Tint altogether, return to the Colour tab and set the Tint Slider to 0%

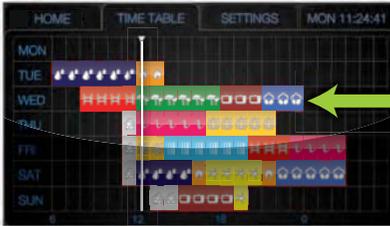
# Changing the Timetable

1



Touch the TIMETABLE tab to display the week view schedule.

2



Select the day of the week to enter the 24 hour view and alter the effects schedule for that day.

3



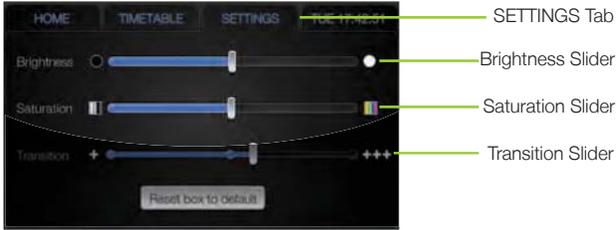
To set the daily schedule, first select the amBX Mode of your choice, then by touching the 'Schedule Setting Bar', select the hour that you want the amBX Mode to be used.

Press again to clear a slot.

To view another day of the week select the 'Previous' button to view the previous day or select the 'Next' button to view the next day.

Touch the 'back button' to return to the TIMETABLE window.

## The SETTINGS Screen



The SETTINGS screen allows you to adjust the brightness, saturation and transition speed. These settings change the overall properties of the effects

The '**Brightness slider**' adjusts the intensity of the lights you have installed.

The '**Saturation slider**' adjusts the vividness of the colours.

The '**Transition slider**' adjusts the speed at which one preset changes to the next amBX Mode at the end of each hour.

The '**Reset box to default**' button allows you to change the settings back to the original installed settings.

## Changing the Light Settings



Touch the SETTINGS tab to display the settings window

The **Brightness**, **Saturation** and **Transition** speed can be changed by adjusting the corresponding sliders.

Slide the '**Brightness Slider**' towards the left to darken the light intensity, and towards the right to brighten the light intensity.

Slide the '**Saturation Slider**' towards the left to reduce the vividness of the colours, and towards the right to increase the vividness of the colours.

Slide the '**Transition Slider**' towards the left to reduce the speed, and towards the right to increase the speed. You can choose through slow, medium and fast.

## The CURRENT TIME Screen



The DAY/TIME screen allows you to alter the current day and time.

The time is used by the AMBIENT XC for the 7-day scheduler and daily systems check.

The options can be easily navigated through by using the 'Previous' and 'Next' buttons.

## Changing the Day and Time



Touch the CURRENT TIME tab to display the current time window

Use the arrows to adjust the day, hour and minutes display.

Touch the **SET** button to save the displayed value as the current time.

Selecting another tab without pressing **SET** will overlook any changes.

# Troubleshooting

If you are experiencing difficulties please verify that the amBIENT XC has power and is correctly connected by following the instructions in the Quick Start Guide or this User Guide. If the amBIENT XC still does not operate as expected please contact your installer.

## Specification

<b>Power</b>	Input Voltage	100 - 240V AC, 50- 60Hz, 20W
<b>Input</b>	Video Audio Control Auxiliary Interface	Composite RCA/Phono Stereo RCA/Phono RS232 - 9 pin serial RJ45 (for future extensions), USB2.0
<b>Output</b>	Lighting	Single Universe DMX 512 via 5 pin XLR
<b>Physical</b>	Form Factor Mounting Options Dimensions (Width x Depth x Height) Weight Operating Temperature Humidity	2U rack mount unit Rack mount ears or removable feet 19 x 14 x 3.5in (483 x 356 x 89mm) 8.82lb (4kg) 32° - 122°F (0° - 50 °C) 8 - 90%, non condensing
<b>Certification and Safety</b>	Certification Environment	CE, FCC Dry Location, IP20
<b>UI</b>	Up to 12 amBX Modes Scheduler  One touch Override	Default or installer customised selection Weekly by Hour Scheduling of amBX Modes Instantly override any timetable with a fixed amBX Mode

# Safety Instructions



To reduce the risk of electric shock, do not remove cover. There are no user serviceable parts inside. Refer servicing to your installer or a qualified personnel.

## Read Instructions

All the safety and operating instructions should be read before appliance is operated.

## Retain Instructions

The safety and operating instructions should be retained for future reference.

## Heed Warnings

All warnings on the appliance and in the operating instructions should be adhered to.

## Follow Instructions

All operating and use instructions should be followed.

## Water and Moisture

This appliance must not be used near water.

## Ventilation

The appliance should be situated so that its location does not interfere with its ventilation. For example, the appliance should not be situated on soft furnishings, such as a sofa, that may block the ventilation of the amBIENT XC, or placed in an inadequately ventilated built-in installation that may impede the air flow to the appliance.

## Heat

The appliance should be situated away from heat sources such as radiators, or other appliances that produce heat. If the amBIENT XC is installed in a rack ensure that adequate space is maintained between the amBIENT XC and other items in the rack. It is suggested that 1U is left between the anBIENT XC and units above and below.

## Power Sources

The appliance must only be connected to the power supply indicated on the appliance.

## Grounding and Polarisation

The appliance must be grounded. When using an extension power supply cable or a power supply cable other than that supplied with the appliance, it should be 3-core, fitted with the appropriate moulded-on plugs and carry safety approval appropriate to the country of use.

## Power Cable Protection

Power supply cables should be routed so that they are not likely to be walked on or pinched by items placed on or against them, paying particular attention to the cable at the plug and the point where it exits from the appliance.

## Cleaning

The appliance should be cleaned with a soft cloth. No cleaning agents should be used.

### Non-use periods

The power cable should be unplugged from the outlet when left unused for a long period of time.

### Foreign objects

Care must be taken so that objects do not fall into the appliance, and that liquids are not spilled into the enclosure through openings.

### Damage requiring Servicing

The appliance must be serviced by a qualified personnel when:

- a The power-supply cable or the plug has been damaged; or
- b Objects have fallen, or liquid has been spilled into the appliance; or
- c The appliance has been exposed to rain; or
- d The appliance does not appear to operate normally, or exhibits a significant change in performance; or
- e The appliance has been dropped, or the enclosure has been damaged.

### Servicing

The user must not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

Observe all warnings on the appliance.

To prevent electric shock, do not open the enclosure; there are no user serviceable parts inside.

To prevent electric shock, do not use this (polarised) power plug with an extension cable or other outlets unless the blades can be fully inserted to prevent blade exposure.

Ensure that the voltage indicated on the back panel matches that of the power supply.

### Important for UK only:

The wires in this mains lead are coloured in accordance with the following code:

Blue: neutral

Brown: live

Green/Yellow: earth

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The green and yellow wire must be connected to the terminal in the plug which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The blue wire must be connected to the terminal which is marked with the letter N or coloured black.

The brown wire must be connected to the terminal which is marked with the letter L or coloured red.

# Other Information

## Disclaimer

All amBIENT XC software remains sole property of amBX UK Limited and its suppliers. Any attempt to alter or replicate the contents of the amBIENT XC is prohibited. Any attempt to copy or alter the software will render any warranties void. amBX UK Limited will initiate legal proceedings against anyone attempting to copy or replicate the software.

Do not open the amBIENT XC case, to do so will void your warranty.

For support and advice please contact your installer.

## Warranty

The amBIENT XC is warranted against faulty workmanship for 12 months from the date of purchase. If you have a problem please contact your installer.

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Printed in United Kingdom  
07/09