

Tour MINI

RGB LED light controller manual

Version 1.1



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Important Information

Warnings

- Connect this unit's power cord only to an AC outlet of the type stated in this Owner's Manual or as marked on the unit. Failure to do so is a fire and electrical shock hazard.
- Be sure to connect to an appropriate outlet with a protective grounding connection. Improper grounding can result in electrical shock.
- Do not allow water to enter this unit or allow the unit to become wet. Fire or electrical shock may result.
- Do not place heavy objects, including this unit, on top of the power cord. A damaged power cord is a fire and electrical shock hazard. In particular, be careful not to place heavy objects on a power cord covered by a carpet.
- Do not place a container with liquid or small metal objects on top of this unit. Liquid or metal objects inside this unit are a fire and electrical shock hazard.
- This unit is equipped with a dedicated ground connection to prevent electrical shock. Before connecting the power plug to an AC outlet, be sure to ground the unit. If the power cord has a three-pin plug, it will provide sufficient grounding so long as the AC outlet is grounded correctly.
- Do not scratch, bend, twist, pull, or heat the power cord. A damaged power cord is a fire and electrical shock hazard.
- Do not remove the unit's cover. You could receive an electrical shock. If you think internal inspection, maintenance, or repair is necessary, contact your dealer.
- Do not modify the unit. Doing so is a fire and electrical shock hazard.
- If lightning begins to occur, turn off the power switch of the unit as soon as possible, and unplug the power cable plug from the electrical outlet.
- If there is a possibility of lightning, do not touch the power cable plug if it is still connected. Doing so may be an electrical shock hazard.
- Use only the included power cord for this unit. Using other types may be a fire and electrical shock hazard.
- If the power cord is damaged (i.e., cut or a bare wire is exposed), ask your dealer for a replacement. Using the unit with a damaged power cord is a fire and electrical shock hazard.
- If you notice any abnormality, such as smoke, odor, or noise, or if a foreign object or liquid gets inside the unit, turn it off immediately. Remove the power cord from the AC outlet. Consult your dealer for repair. Using the unit in this condition is a fire and electrical shock hazard.
- Should this unit be dropped or the cabinet be damaged, turn the power switch off, remove the power plug from the AC outlet, and contact your dealer. If you continue using the unit without heeding this instruction, fire or electrical shock may result.

Cautions

- Keep this unit away from the following locations:
 - Locations exposed to oil splashes or steam, such as near cooking stoves, humidifiers, etc.
 - Unstable surfaces, such as a wobbly table or slope.
 - Locations exposed to excessive heat, such as inside a car with all the windows closed, or places that receive direct sunlight.
 - Locations subject to excessive humidity or dust accumulation.
- Hold the power cord plug when disconnecting it from an AC outlet. Never pull the cord. A damaged power cord is a potential fire and electrical shock hazard.
- Do not touch the power plug with wet hands. Doing so is a potential electrical shock hazard.
- This unit has ventilation holes along the right side and at the rear to prevent the internal temperature from rising too high. Do not block them. Blocked ventilation holes are a fire hazard. In particular, do not operate the unit while it's on its side or while it's covered with a cloth or dust sheet.
- To relocate the unit, turn the power switch off, remove the power plug from the AC outlet, and remove all connecting cables. Damaged cables may cause fire or electrical shock.
- When setting up the product, make sure that the AC outlet you are using is easily accessible. If some trouble or malfunction occurs, immediately turn off the power switch and disconnect the plug from the outlet. When you are not using the product for a long time, make sure to unplug the power cord from the wall AC outlet.
- If you know you will not use this unit for a long period of time, such as when going on vacation, remove the power plug from the AC outlet. Leaving it connected is a potential fire hazard.
- The inside of the unit should be cleaned periodically. Dust accumulation inside the unit may cause malfunction and is a potential fire hazard. Consult your dealer for information about cleaning.
- To prevent electrical shock when cleaning the unit, remove the power plug from the AC outlet.

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Interference

NOTE: This equipment has been tested and found to comply with the limits of Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Tour MINI Exclusion of Certain Responsibility

Manufacturer, importer, or dealer shall not be liable for any incidental damages including personal injury or any other damages caused by improper use or operation of the Tour MINI.

Thank you for purchasing the BrightBeats Tour MINI RGB LED system!

The Tour MINI system has the following specifications:

- Backlit LCD screen
- 4 Channels with full RGB color control
- DMX integration for control of some or all outputs
- 140 watts continuous output at 12 volts
- Aux input for a 2 channel foot switch
- Can store up to 10 settings profiles
- Rugged and compact case

Basic system handling and cleaning

The Tour MINI system is built tough to withstand the normal abuses of a touring musician but there are some basic rules that should be followed to make sure your system continues to perform at its peak.

LCD Screen:

The LCD screen needs to be handled with care. Sharp objects including pens, pencils etc should NEVER be touched to the screen and can cause damage.

Screen cleaning can be done with a damp cloth or even spraying a small amount of cleaner on a cloth and then wiping the screen. Do not spray anything directly on the screen. This may cause a short and damage the unit.

Static Electricity precautions (ESD):

Even though the Tour MINI controller has built in protection for ESD discharge, damage can still occur. Care should be taken to ground your body before touching any of the connectors or screen. The best method would be to touch some part of the chassis to discharge any voltage before working with it.

Setting up your system

Depending on what type of drums and LED's you have the installation will vary. A typical system will consist of the Tour MINI controller, a trigger for each drum to be lit and a length of LED's to be driven for that channel.

Each input channel of the Tour MINI is a ¼ inch mono connector. In general, the safe input range is from 0-10 volts. These inputs can be connected to various devices depending on how you wish to trigger the LED's. In addition to triggers, musical instruments, audio outs and similar devices can be used to trigger *but care must be taken not to overdrive the input or damage may occur.*

This system has also been tested with Roland VDrum controllers as well as 2Box. You can split the trigger output from a drum or cymbal with a "Y" cable and feed both the drum controller and the Tour MINI. If the drum is a dual zone with a TRS connector, you can plug in a TRS cable directly to the Tour MINI and it will only trigger off of the tip and sleeve. The ring is left floating on all inputs of the TOUR series units.

Trigger Placement

The Tour MINI inputs can be set to be very sensitive. This allows for many options when triggering. Typically triggers can be placed in the traditional way directly on the head of the drum or they can be placed on the shell of the drum if a stick-on model is used.

Every situation is different so a test should be conducted to determine what the best method is to achieve the best response and also to reduce cross triggering.

Output Connections



The back panel of the unit has 4 4-pin female XLR output connectors. Each connector will drive up to 4.5 amps at 12 volts for your LED's. The maximum draw from all channels at the same time must not exceed 12 amps.

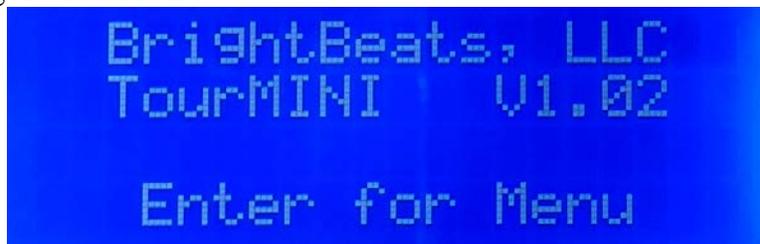
The pinouts are as follows:

- Pin 1: Red output (neg)
- Pin 2: Green Output (neg)
- Pin 3: Blue Output (neg)
- Pin 4: +12 volts

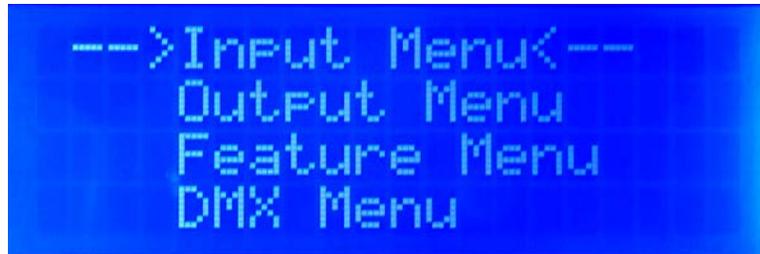
If you are making your own cables be sure to use the proper gauge to minimize voltage drop and have the ampacity to safely carry the current for your LED's!

Software configuration

Upon initial power up the system will be at the startup screen. Press the Enter button to open up the configuration menu



This will bring up the main menu



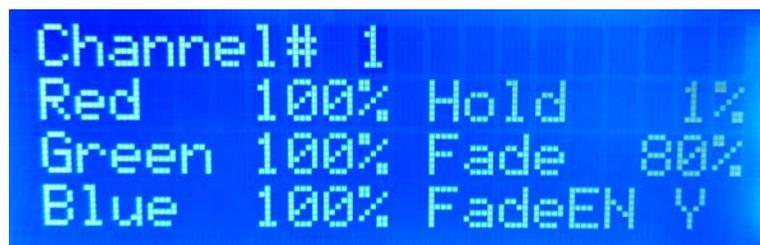
From here, select **Input Menu** to start



The input level adjusts how sensitive each input will be. 0% is off and 100% is crazy sensitive! You will want to set these so that they are just slightly above the point at which they trigger. Try playing different things and see if you get the response you like. Setting the input higher will give a different response depending on what is being played and how the output settings are configured. Remember that the output settings play a big part in this too.

Output Settings

From the input menu press the **ESC** button to return to the main menu and then select **Output Menu** and press **Enter**.



The channel number on the top designates which channel you are currently looking at. You can press the **Up** or **Down** buttons to configure other channels.

To edit the settings for that channel press the **Enter** button and then use the **up** and **down** buttons to move around. Pressing **Enter** again will move the cursor over to the setting value which you can now change by using the **Up** and **Down** buttons. When finished with that setting, press the **Enter** button or **Esc** button to return to change other settings.

The color settings will define what percentage of brightness each output will emit. You can increase or decrease them to get different colors on the channel.

The **Hold** setting will set how long the channel will keep its output on after the trigger hit is detected. Set it to about 1%, for example, for very fast snare rolls.

The **Fade** setting controls the fade speed of the particular channel. The Fade Enable must be set to **Y** for this effect to work.

The fade will not become active until after the hold time has expired. Lots of different combinations can be achieved with these settings. You can also use the fade to achieve a color blend on the fade. If you set a color to 100% and then set the others at a lower percentage, the color at the lower setting will fade out first leaving the higher color on last.

Note: Changes are not committed to flash until you return to the main menu. While the settings take effect immediately, if you were to power the unit off before returning to the main menu the changes would be lost. This is true for all menus.

DMX Settings

DMX control provides full control from lighting software or hardware of some or all of the Tour MINI channels. Channel control allows the triggers to be turned on or off remotely allowing the drummer to have the LED's trigger only during the parts of the show they want them to. Color control tells the Tour MINI where to get the output color for each channel when trigger override is enabled for each channel.

DMX control menu



```
Master DMX Enable Y
DMX Channel 1
Ch1 DMX Y Ch3 DMX Y
Ch2 DMX Y Ch4 DMX Y
```

To enable DMX, set the Enable field to **Y**. This will allow you to select channels to enable DMX control. Only the channels selected here will listen to DMX control signals.

The Tour MINI uses 32 DMX channels. The channel map is below:

DMX Ch	Description	DMX Ch	Description	DMX Ch	Description
1	CH1 R	13	Ch1 trig ctrl	25	Ch2 G Constant Color
2	CH1 G	14	Ch2 trig ctrl	26	Ch2 B Constant Color
3	CH1 B	15	Ch3 trig ctrl	27	Ch3 R Constant Color
4	CH2 R	16	Ch4 trig ctrl	28	Ch3 G Constant Color
5	CH2 G	17	Ch1 Color ctrl	29	Ch3 B Constant Color
6	CH2 B	18	Ch2 Color ctrl	30	Ch4 R Constant Color
7	CH3 R	19	Ch3 Color ctrl	31	Ch4 G Constant Color
8	CH3 G	20	Ch4 Color ctrl	32	Ch4 B Constant Color
9	CH3 B	21	Ch1 R Constant Color		
10	CH4 R	22	Ch1 G Constant Color		
11	CH4 G	23	Ch1 B Constant Color		
12	CH4 B	24	Ch2 R Constant Color		

DMX Continued

The table above assumes a DMX start channel setting of 1.

DMX channels (1-12) set the output color for each drum. These are only used when the color control DMX channel (17-20) are set above 128 and DMX is enabled.

DMX channels (13-16) are used to control the trigger input for each of the DMX enabled outputs. Setting these to a value above 128 will turn on the trigger input and disable the DMX output (CH 1-12) to that channel but will enable constant color output from DMX channels (21-32).

DMX channels (17-20) are used to control where each channels color is read from while the trigger control DMX channel is above 128. Setting these to a value lower than 128 will cause that channel to read its color settings from the controller memory. Setting these to a value above 128 will cause that channel to read its color settings from the current DMX values (1-12) corresponding to that channel. When this setting is enabled the color settings for each channel are actually written to the controllers working memory for that channel but are not saved to flash.

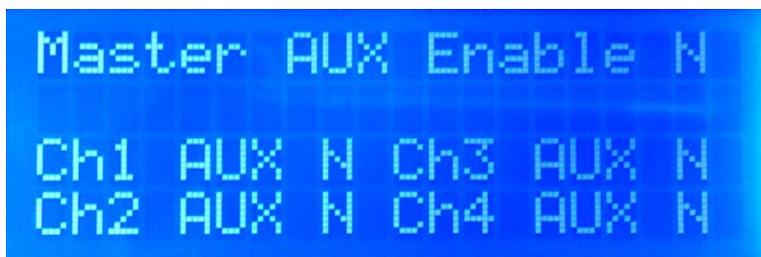
What these settings allow you to do is put the drummer into trigger mode and change the color in real time while he plays. What you cannot control is the input sensitivity and the fade time/control for each channel. These features are only adjustable from the Tour MINI control panel.

DMX channels (21-32) allow you to have a constant background color which can be in contrast to the strike color. These channels are automatically in use whenever DMX is enabled on the controller. An example of its use would be to have the drums constantly lit blue and then flash white when hit. All of these colors are controllable from the DMX channels they follow.

Note on color control: If you turn on DMX Color control (17-20) for a channel and then blackout your lights, nothing will light up when the triggers fire because each channels settings will be at zero. It would be better to set a fixed color for that channel in DMX and then shut off the corresponding DMX color control channel before blacking out since this will set that channel at that color.

Feature Menu

The Feature menu has options for external stomp switch control.



Channel Aux Control Settings

These settings correspond to the **Aux** input on the rear panel. To enable a foot switch, set the **Master Aux Enable** to **Y**. Select from the list the channels you want to control. The foot switch will allow you to shut down the LED's on the selected channels with one switch or turn them fully on with the other switch ignoring the input. This can be useful when there is no DMX control and the drummer wants to take control on stage. If DMX is in use, it can override this control.

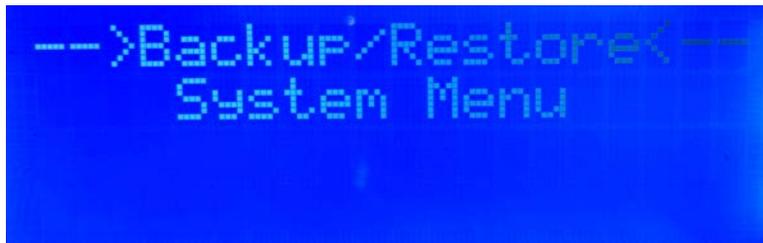
The **Aux** input is a tip, ring, sleeve configuration. The sleeve is ground, the ring is **Channels on** and the tip is **Disable channels**.

A very basic dual foot switch is all that is needed. No active components can be in the foot switch. Simply grounding the proper pin will activate the function. A good example of this type of switch would be a Vox VFS-2.

****Under no circumstances should any voltage be applied to the Aux input. Damage can occur!**

Backup and Restore features

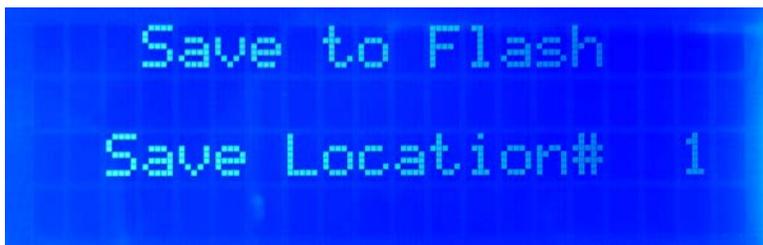
The Tour MINI allows for saving and recalling up to 10 different global scene settings. This can be very useful when you want to custom tailor your settings for different equipment, shows or even songs.



Press **Save to Flash** or **Restore Config** and select the appropriate scene number and confirm your selection.

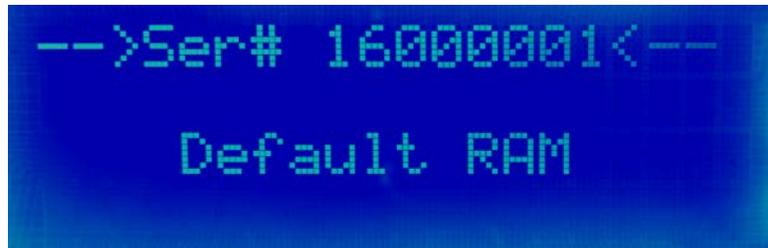


After pressing **Save to Flash** the save menu appears



After selecting the scene you will see a confirmation to save the settings. Press **Enter** to confirm. The same applies for restoring settings.

System Info Screen



This screen displays support information.

There is also a **Default RAM** option. This will wipe out the current working-memory settings back to factory default. It will not change the settings stored in Scene Flash memory.

Mounting holes on Bottom

There are 4 holes on the bottom of the unit for attaching a mounting plate so the unit can be mounted to a stand or a drum rack. Only use M5 x 12mm screws. Anything longer will hit the circuit board and cause damage

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Bright Beats, LLC LIMITED WARRANTY

Effective Date: January 2016

What This Warranty Covers

Your Bright Beats, LLC Warranty covers defects in material and workmanship in Bright Beats, LLC products purchased and serviced in the U.S.A.

What This Warranty Does Not Cover

The Warranty does not cover: (1) damage caused by accident, misuse, abuse, improper installation or operation, rental, product modification or neglect; (2) damage occurring during shipment; (3) damage caused by repair or service performed by persons not authorized by Bright Beats, LLC; (4) products on which the serial number has been altered, defaced or removed; (5) products not purchased from an Authorized Bright Beats, LLC Dealer.

Who This Warranty Protects

This Warranty protects only the original retail purchaser of the product.

How Long This Warranty Lasts

The Warranty begins on the date of purchase by the original retail purchaser. The duration of the Warranty is as follows:

Tour-10 and Tour-Mini lighting controllers and power supply (1 Year)

What Bright Beats, LLC Will Do

We will repair or replace (at Bright Beats, LLC's discretion) products covered by warranty at no charge for labor or materials. If the product or component must be shipped to Bright Beats, LLC for warranty service, the consumer must pay initial shipping charges. If the repairs are covered by warranty, Bright Beats, LLC will pay the return shipping charges.

How To Get Warranty Service

(1) Take the defective item and your sales receipt or other proof of date of purchase to your Authorized Bright Beats, LLC Dealer.

OR

(2) email sales@usabrightbeats.com with a detailed description of the problem, together with a copy of your sales receipt or other proof of date of purchase as evidence of warranty coverage. Also provide a complete return address.

Limitation of Implied Warranties

ANY IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Exclusions of Damages

Bright Beats, LLC'S LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO THE REPAIR OR REPLACEMENT OF THE PRODUCT, AT Bright Beats, LLC'S OPTION. IF WE ELECT TO REPLACE THE PRODUCT, THE REPLACEMENT MAY BE A RECONDITIONED UNIT. Bright Beats, LLC SHALL NOT BE LIABLE FOR DAMAGES BASED ON INCONVENIENCE, LOSS OF USE, LOST PROFITS, LOST SAVINGS, DAMAGE TO ANY OTHER EQUIPMENT OR OTHER ITEMS AT THE SITE OF USE, OR ANY OTHER DAMAGES WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE, EVEN IF Bright Beats, LLC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

If you have any questions about this warranty or service received or if you need assistance in locating an Authorized Service Center, please contact Bright Beats, LLC

sales@usabrightbeats.com

Features and specifications subject to change without notice.