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VIBE-Tube User Guide

Accompanying Firmware 0.46

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1. Introduction

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Thank you for purchasing this SmartShow VIBE-Tube product, we hope it gives you many years of trouble-free use and enjoyment.

This User Guide will help you get started with operating your VIBE-Tube system, using the various modes, pairing master/slaves, connecting to a Network, configuring its IP Address, DMX and Pixel Mode settings, setting Audio levels and mounting.

If you find a problem with the product (manufacturing defect or otherwise) please contact us on mailto:sales@smartshow.lighting and we will endeavour to assist you.

Our warranty terms and conditions are available at https://smartshow.lighting/manufacturers-warranty/

Please register your product with us at https://smartshow.lighting/register

2. Product Overview

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The SmartShow VIBE-Tube system is a fully integrated lighting system, that can be powered from mains power supplies, or (where applicable) from a USB-powerbank. This feature-rich, versatile system is perfect for live bands, DJs, parties, home bars, theatre lighting practices or props, photography lighting, or even just as background lighting for events like exhibition galleries or tradeshows. The VIBE-Tube system has a mode for every occasion!

Live music is closely AI tracked using our Dynamic Music Tracking (DMT) algorithm, and the synchronised data is shared with all the VIBE-Tubes in the system. VIBE-Tubes are incredibly lightweight and can be mounted almost anywhere.

Please see our accessories section of the SmartShow website for mounting accessories.

3. Specifications

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- SKC6812RGBW-NW 5050 Pixels
  VIBE-100 has 100 pixels
  VIBE-200 has 200 pixels
  VIBE-300 has 300 pixels
- LED Wavelengths:
  Red 616-625nm
  Green 520-530nm
  Blue 460-470nm
- LED White Colour Temperature: 3800-4200K
- Maximum wattage per RGBW LED: 202.5mW
- Pixel PWM rate: 1.2kHz
- Fully integrated Dynamic Music Tracking algorithm
- Uninterrupted audio sampling rate: 22kHz
- Typical audio response time: ~23ms
- Typical pixel update rate: ~44Hz
- Number of programs: 47 (specific to mode)
- Number of program variants: various (dependant on program selected)
- Number of palettes (Audio Mode): 16
- Number of palettes (DMX Mode): 22
- Number of brightness settings: 10
- VIBE-Tube Communications: 52 byte proprietary broadcast packet at 2.4GHz
- Wi-Fi Communications: 802.11b/g/n, bit rate: 802.11n up to 150 Mbps
- IR Communications: 38KHz carrier, 3 bytes data packet from IR controller
- Display: 128 x 32 0.91" White OLED
- Navigation button: 4 way, plus enter
- IR Remote controls: 16 preset colours, brightness up/down, on/off, Strobe, Flash, Blinder
- VIBE-Deck Remote controls: 10 preset colours, trigger threshold up/down, on/off/standby, Strobe, Flash, Blinder, song speed
- Maximum current consumption (per tube):
  VIBE-100 3A, VIBE-200 on power supply 4A, VIBE-200 on USB battery 3A, VIBE-300 6A
- 8 Modes of operation:
  Master:Audio
  Slave
  Pixel-Mapped
  Master:DMX
  Master:RGBW
  Master:HSI
  Master:CCT
  Master:Demo

4. Product Connections

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All Connections are at the bottom end of the Tube (the opposite end to the display)

There is a USB-C connection which can be used for power (see below), and also used for applying firmware updates. There is also a barrel power connection.

IMPORTANT Please note that only the **supplied** power supply can be used with this tube as it provides the correct voltage and power rating, any other power supply used may risk damaging the VIBE-Tube

VIBE-100 has a 5.5mm x 2.1mm barrel socket (as per PSU-5V-3A)
VIBE-200 and VIBE-300 have a 5.5mm x 2.5mm barrel socket (as per PSU-5V-4A)
The difference between the two is to ensure you dont mix up different VIBE-Tube power supplies.

5. Powering your VIBE-Tube

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For powering the VIBE-Tubes, you can use the following :

- VIBE-100s use PSU-5V-3A, or suitable USB Power Pack (typically 20000mAh or greater, with USB port capable of providing 3A/5V output)
- VIBE-200s use PSU-5V-4A, or suitable USB Power Pack (typically 25000mAh or greater, with a USB port capable of providing 3A/5V output)
- VIBE-300s use PSU-5V-6A only (you should not use USB power packs to power this product)

DO NOT extend the power cables, or use USB-powerpack cables any longer than 0.5m, and use only quality USB Power cables.

DO NOT use your own power supply, or plug ANY voltage above 5V into the VIBE-Tube, as this may permanently damage the product.

PLEASE NOTE when you have a MASTER VIBE-Tube in your system, this requires either a fully charged battery or the supplied PSU to ensure that your system functions correctly and efficiently, if you see that SLAVE VIBEs are starting to regularly miss received and update sequences, check that the battery you are using is powerful enough – you may want to increase its power rating, or swap to using the appropriate power supply.

USB Power Pack Usage: If you are using a 25000mAh+ USB power pack with a VIBE-200 used as a SLAVE, then you should select "USB BATTERY" in the Slaves System Menu, this will ensure that the VIBE-200 will limit the amount of current that can be drawn from the USB power pack. Otherwise if you are using the PSU-5V-4A then just select "5V SUPPLY"

VOLTAGE WARNINGS: there are several warning messages that may appear on the VIBE-Tube display:

- **Wrong Power Supply:** Any power supply voltage above 6.0V is deemed to be dangerous for the Pixel-LEDs and may result in permanent damage. Voltages of this level and above will instantly cut power to the Pixels (hopefully before any damaged occurs) and show the warning.
- **OverVoltage:** If the power supply voltage higher than 5.5V but less than 6.0V, the Pixel-LED power will be removed, but will return once the supply is back to normal.

6. Product Warranty

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SmartShow UK Ltd offers a two-year limited manufacturer's warranty on all products manufactured after April 3rd 2023

The warranty covers any manufacturing fault or defective component that has occurred within the recommended usage of the product, as described in the user documentation provided. However, if damage to the product occurred due to events such as, but not exclusive to, a customer's avoidable misuse, user actions that do not comply with the instructions in the user documentation, over-voltage, if the product has been disassembled, defaced, altered, subjected to abuse, an error that the customer should have reasonably been able to avoid, fire, water, corrosion or lightning, then the warranty will be voided.

This warranty shall also be voided if an unauthorised repair is attempted (successful or otherwise)

This warranty does not cover any financial losses that may result from a faulty product or any such case as mentioned above, nor does it cover any costs for collection, removal or reinstallation of a defective product or damage to any other product that is connected to it.

Product warranty will only be covered for the original purchaser of the product. Used or second-hand products will not automatically have a warranty transferred to the second party or subsequent product owner.

7. OLED Display

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The VIBE-Tube's OLED display has been carefully designed to allow a clean operating menu. The device mode is readily viewable, and any changes are updated instantly.

The display menu is operated by the 4-way navigation joystick situated at the top end of the tube, with up/down/left/right/enter actions.

Depending on the device mode, the menus will become context sensitive to ensure a clean menu structure.

The display will go dim after 20 seconds with no navigation actions, and after 3 minutes with no navigation actions, the display will go completely. Any subsequent navigation action will restore the display to full brightness.

8. Powering-up sequence

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Firstly, plug in either the mains power supply provided (see "5. Powering your VIBE-Tube" above), or a USB power pack of your choosing (see above).

The OLED display will scroll the SmartShow logo followed by the product name ("VIBE-100", "VIBE-200" or "VIBE-300"), then announce the firmware version in the center of the display.

After this, depending on which mode the VIBE-Tube was last left in, it will display one of the following displays:

Master:Audio, Slave, Pixel-Mapped, Master:DMX, Master:RGBW, Master:HSI, Master:CCT, or Master:Demo

9. 4-Way Navigation Controls

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There is a rubber joystick at the top end of the VIBE-Tube, adjacent to the OLED Display, it has the following controls:

- Push button in = "Enter"
- Up/Down = "Select"
- Forward/Backward = "Adjust"

Using the up/down (select) controls, you can move the arrow cursor up and down the menu lines before selecting the operation you want to do.

When you want to EDIT the value of parameter, just press ENTER and the parameter will become highlighted (inverse video).

You can then use the forwards/backwards (adjust) navigation movements to adjust the value.

Once you have settled on a value, just press ENTER again and the parameter will change from highlighted back to normal. At this point the new value will be saved to the VIBEs internal memory.

Some changes have greater visual effect than others, so bear it in mind that menu structures or operation may change after you have changed a parameter.

10. Wireless Connectivity - IMPORTANT

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Before you go any further, it is important to understand that all 2.4GHz Wireless/Wi-Fi devices use special frequencies. These frequencies have "Channel Numbers", and these range from 1 to 11.

To have one or more devices communicating together, all devices must use the SAME Channel Number.

So why would we want to change the Wireless/Wi-Fi channel number ?

There are alot of use of 2.4GHz wireless frequencies all around you, phones, computers, tablets, home automation, and much more.

Many of the frequencies have a lot of traffic, so for our VIBE-Tube system to work to its best ability, we should avoid the worst of this traffic.

We can use a simple Mobile Phone application (like "Wifi Analyser") to give us a picture of the most used channels in the area around you, then we can choose a channel that has the least congestion, and set all the VIBE-Tubes to that channel.

We have made the choice simple, so you can choose either channel 1, 6, or 11, and one of these will generally work well.

VIBE-Tubes have a special menu that allows you to PRESET each devices' Channel Number

To access this special menu, from "Master:Audio", "Master:Demo" or "Master:HSI" display, press and hold ENTER for 10 seconds (the SYSTEM MENU and REMOTE CONTROL pages will appear briefly, this is intentional), then the following display will appear:

```
> BACK  WIFI CHANNEL
  WiFi Channel  1
  All devices must use
  the same channel num
```

Scroll down to "Channel", press ENTER and adjust the value of the channel, press ENTER to exit parameter editing, and now the VIBE-Tube will be using the new Channel Number.

In all modes except MASTER:RGBW mode, the Wifi-Channel can be seen on the upper right corner of the display
For example, on the MASTER:DMX main display:

```
WIFI  MASTER:DMX     1
Network Not Connected
IP: 192.168.001.200
ArtNet 0        Chan 1
```

11. Accessing the System Menu

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To access any of the VIBE-Tube menus, simply press the navigation button (ENTER) from any top-level display, this will show a context-sensitive "SYSTEM MENU".

```
> BACK  SYSTEM MENU
  Device  MASTER:AUDIO
  Goto Audio Settings
  Goto Pairing Menu
```

Using the up/down (select) controls, you can move the arrow cursor up and down the menu lines before selecting the operation you want to do.

Most menus have a "BACK" option at the top left of the display which will exit back to the previous display page.

Selecting "Device" and pressing ENTER will change the colour of "Master:Audio" (example) to inverse video, and you can then use the forwards/backwards (adjust) navigation to adjust the value.

```
  BACK  SYSTEM MENU
> Device  MASTER:AUDIO
  Goto Audio Settings
  Goto Pairing Menu
```

Once you have selected the Mode of Operation you want for the VIBE-Tube, press ENTER again to save it.

NOTE : In most cases, a change of mode will alter the content/context of the two lines directly below the "Device" setting.

12. Device Modes

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The VIBE-Tube range have 8 modes of operation:

- Master:Audio (perfect for live music performance and DJ use)
- Slave
- Pixel-Mapped (for use with pixel mapping applications)
- Master:DMX (for precise control of programs, colour and effect speeds)
- Master:RGBW (Variable Red, Green, Blue and White)
- Master:HSI (Variable Hue, Saturation and Intensity)
- Master:CCT (Variable Colour Temperature)
- Master:Demo

In general (apart from Pixel-Mapped mode) you can choose ONE device to be a Master, and set all the other devices to be Slaves.

The Slaves will always create the content of what the Master instructs them to.

The Slaves will need to be paired with the master, this only needs to be done once (see "12.1.3 "Pairing" Menu" below)

12.1 "Master:Audio" Device Mode

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```
Soft ----       1
MASTER -Magenta-
        Waiting_
Trig ---T----
```

The top line shows an average ambient sound pressure value (shown as a single horizontal bar-graph), this also shows whether the algorithm determines the ambient sound has transitioned to Loud, or Soft (in comparison to prior readings).
The device Wi-Fi channel is shown in the upper right of the display (this example is set to channel 1)
The Middle section shows "MASTER", with the current colour palette, and the current status of operation (Blackout, Standby, Waiting, or Program/Effect Number).

The bottom line shows the bass drum impulse level (<100hz). The level must reach the trigger threshold "T" to advance the program/effect step.

Setting a VIBE-Tube to "Master:Audio" mode will allow it to monitor audio levels, peaks, silence and music BPM and use its own DMT (Dynamic Music Tracking) algorithm to decide what program (pattern generation) and colour palette it should use.

The VIBE-Tube Master will also transmit information to all other VIBE-Tube Slave tubes that are paired with it so they will all respond at the same time.

Master:Audio mode understands the gaps between songs, and will ensure that any subsequent song will start using a different Program/Effect and Colour Palette, this will ensure a hands-free operation of the VIBE-Tube system for the duration of the musical event, whilst giving you a continually changing light show.

Once a five-second gap/silence between songs is sensed, the Master will move to show "Waiting..", during this time the VIBE-Tube system will give a slowly updating/rolling colour with a reduced brightness as a background for your stage.

A user can interact with the show by pressing buttons on either the Infra-Red Remote Control, or via the VIBE-Deck Remote (see "14. Accessing the VIBE-Deck Remote" below).

12.1.1 "Master:Audio" System Menu

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```
> BACK  SYSTEM MENU
  Device  MASTER:AUDIO
  Goto Audio Settings
  Goto Pairing Menu
```

12.1.2 "Audio Settings" Menu

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Selecting "Goto Audio Settings" from the Master:Audio System Menu, and pressing ENTER, will take you to the following display:

```
> BACK  AUDIO SETTINGS
  AudioMode      LIVE
  Trig Lvl        3
  Trig ------------T---
```

Selecting the "AudioMode" will allow you to adjust the type of venue or type of music you will be using the VIBE-Tube with. There are 3 settings: Live, Soft and Club, and each have thier own interpretations of liveliness of response, and crossfade times.

Selecting "Trig Lvl" (Trigger Level) will allow you to adjust the trigger threshold that the bass drum impulse must reach/pass in order for a Trigger to qualify. This is especially useful when you need to put the trigger threshold up to reduce the chance of unwanted triggering, from voices or other noise. You can adjust the trigger threshold while also monitoring the level and any triggering, which is shown as 'T' the bottom line of the display.

The range of trigger threshold levels goes from 1 (most sensitive, for quiet music), to 16 (least sensitive, for loud music)

12.1.3 "Pairing" Menu

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Selecting "Goto Pairing Menu" from the Master:Audio System Menu, and pressing ENTER, will take you to the following display:

```
> BACK  MASTER PAIRING
  START Pairing
```

IMPORTANT: Prior to pairing any slaves to a master, please ensure that they are all on the same Wireless Channel. See 10. "Wireless Connectivity - IMPORTANT" for more details. If your devices are NOT on the same channel, the will NOT pair.

For Slaves to successfully work with a Master, they must be paired to the Master.

To initialise this process, select "START Pairing" and press "ENTER".

"START Pairing" will change to "STOP Pairing", and all VIBE-Tubes that are set to Slaves will show the following display:

```
     SLAVE PAIRING
  Pair Request Recieved
> ACCEPT
  DECLINE
```

If "ACCEPT" is selected, the Slave will then be "Paired" with the Master, and the Master will send the Slave an "Address".

The option for a Slave to "DECLINE" pairing is given so that if you wanted to created separated groups of Master/Slaves in the same area, this is achievable.

As each subsequent Slave accepts the pairing request, the Slave Address value goes up by one. The Slave Address is shown on the top-level display of each Slave.

The Master also keeps a record of each Slave, and this is shown in a list at the bottom of the Master Pairing menu page.

Once you have Accepted pairing on all of the Slaves, go back to the Master and press "STOP Pairing", and the following display will be shown.

```
> BACK  MASTER PAIRING

  CLEAR Pairing
  2 3 4
```

The numerical list at the bottom shows all the devices that have been paired with the Master.

There is then the option to "CLEAR Pairing" on the Master, this will then unpair each Slave from the Master. Once CLEAR has been pressed the list will disappear and the display will go back to show "START Pairing" again

The Maximum number of Slaves that can be connected to one Master is 20.

NOTE: If at any time you need to add some additional tubes, then you will have to CLEAR the pairing list before starting to pair all the tubes from scratch

12.1.4 "Master:Audio" Trigger Threshold Control

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At any time from the top-level Master:Audio display, you can adjust the trigger threshold by using the Left/Right (adjust) controls. The trigger threshold value will be shown directly on the bottom Trigger display, as 'T'.

There are 16 trigger threshold levels, from 1 (most sensitive, for quiet music) to 16 (least sensitive, for loud music). Setting the right trigger threshold is very useful when you need to reduce the chance of unwanted triggering, from voices or other noise.

12.1.5 "Master:Audio" System Brightness Control

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At any time from the top-level Master:Audio display, you can adjust the overall System Brightness using the up/down (select) controls. System brightness is the governing brightness level for all modes except Pixel-Mapped

There are 10 stages of System Brightness, from 1-10. these brightness levels are equivalent to 25, 50, 75, 100, 125, 150, 175, 200, 225 and 255 in the DMX scale, and 10%, 20%, 30%, 40%, 50%, 60%, 70%, 80%, 90%, 100% on the percentage scale.
The default brightness is 10 (100%)

12.2 "Slave" Device Mode

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```
     SLAVE MODE      1
  ADDRESS 1
  Status: IDLE
```

Setting a VIBE-Tube to "Slave" mode will allow the device to listen to the VIBE-Tube Master it is paired with.

The Slave will receive data regarding what it should be doing regarding patterns, colours etc and respond to it accordingly. Once data is being received, the Status will go from IDLE to RECEIVING. If the data stops flowing for five seconds then the status will return to IDLE again.

The VIBE-Tube that the Slave is paired with can be in a variety of Modes (Master:Audio, Master:DMX, Master:RGBW, Master:HSI, Master:CCT, or Master:Demo).

The device Wi-Fi channel is shown in the upper right of the display (this example is set to 1)

VIBE-200 only: If your device is a VIBE-200 then there is an additional Icon in the bottom right corner on the Slave Status display that shows if the tube is set up for "BAT" (USB Battery Power Pack) or "PSU" (Power Supply). If you are running on USB Power Pack and the symbol say "PSU" then you should go into the Slaves system menu and change it to Battery (see 12.2.1 "Slave" System Menu below)

12.2.1 "Slave" System Menu

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```
> BACK  SYSTEM MENU
  Device     SLAVE
  Power    5V SUPPLY
```

Generally, there is very little to adjust here apart from changing the device mode.
On a VIBE-200 you will be able to set whether you are using the supplied 5V Mains Power Supply (PSU-5V-4A) or USB Battery Pack, this is an important setting on a VIBE-200 tube to ensure you get the best brightness without any overcurrent issues.

12.3 "Pixel-Mapped" Device Mode

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```
     PIXEL-MAPPED       1
  Network Not Connected
  IP: 192.168.001.200
  ArtNet 0       GRB->GRBW
```

Setting a VIBE-Tube to "Pixel-Mapped" mode will allow you to link it to a Wi-Fi router, and pass ArtNet pixel data to the devices IP via the Wi-Fi network.

The Pixel data will normally come from pixel mapping applications like Madrix, Madmapper, Resolume, ELM, etc.

You can have many VIBE-Tubes set to "Pixel-Mapped" mode and present on the same network, all listening to the same Pixel Mapping application.

If you have multiple tubes that need to join the same network, you will only need to set ONE and the others will follow automatically (see "SSID/PASSWORD Copy Function" below).

- VIBE-100's will consume 1 universe (100 RGB channels, 400 RGBW channels) Max frame rate 100hz.
- VIBE-200's will consume 2 universes (200 RGB channels, 800 RGBW channels) Max frame rate 75hz.
- VIBE-300's will consume 3 universes (900 RGB channels, 1200 RGBW channels) Max frame rate 50Hz.
- The device Wi-Fi channel is shown in the upper right of the display (this example is set to channel 1)

12.3.1 "Pixel-Mapped" System Menu

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```
> BACK  SYSTEM MENU
  Device  PIXEL-MAPPED
  Change Wi-Fi Network
  Goto ArtNet Settings
```

12.3.2 Connecting a VIBE-Tube to a Wi-Fi Network

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Select "Change Wi-Fi Network" from the system menu and press ENTER, then the following display will be seen.

```
> BACK  WI-FI NETWORK
     - no ssid -
  Start 'VIBE HotSpot'
```

Select "Start 'VIBE HotSpot'" and press ENTER, then the following display will be seen ('Start', will have changed to 'Stop').

```
  BACK  WI-FI NETWORK
     - no ssid -
> Stop 'VIBE HotSpot'
  Auto-Timeout in 90s
```

From your mobile phone, select the "VIBE-HotSpot" (SSID), and enter "smartshow" as the password we were given. Ensure the auto-reconnect is enabled. Then you will see the SSID in your WIFI list with "Sign in to the network". Just press the link and it should automatically sign in and keep those details in your phone/tablet

Press the "Scan for Networks" button, and after a few seconds a list of Wi-Fi networks will appear (SSID, security type, and signal strength).

Select the SSID of the Access point you want the VIBE-Tube to connect to, then enter the password in the "Enter Password..." box, then press "Save Password and Use this Network".

If the SSID/Password are correct, the VIBE-Tube will connect to the Network you have selected, and the display will return to the mode status display. The display will now show "Connected: NO DATA" (see below).

```
     PIXEL-MAPPED       1
  Connected : NO DATA
  IP: 192.168.001.200
  ArtNet 0       GRB->GRBW
```

If you wanted to check the Network SSID that the VIBE-Tube is connected to, just access the "Wi-Fi NETWORK" page again and you will see it on line 2.

12.3.3 SSID/PASSWORD Copy Function

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If you have several VIBE-Tubes that are set to "Pixel-Mapped" Mode, you DO NOT need to repeat the above Network connection process for each tube, as long as you have all VIBE-Tubes powered and within a close-by range, and that they are each set to "Pixel-Mapped" mode.

As soon as the first tube completes its Network SSID/Password process, the SSID and Password will be passed to the other tubes, and they will all show the following display

```
     WIFI CREDENTIALS
  SSID/Pass Recieved
> ACCEPT
  DECLINE
```

If "ACCEPT" is selected, the SSID/Password will be saved in the VIBE-Tube, and the VIBE-Tube will start its process to connect to the same Wi-Fi Access Point as the first one.

After pressing "ACCEPT", the display will jump to the Pixel-Mapped (top level) Status display, so there is no need for a BACK button.

You can then go through all the other VIBE-Tubes that are set to the same mode and "ACCEPT" those too.

NOTE: The option to "DECLINE" the SSID/Password copy is given to allow you to create separate VIBE-Tube Pixel-Mapped networks if you so desire. Once DECLINE has been selected the display will jump back to the Pixel-Mapped (top level) Status display.

IMPORTANT: Please assume that ALL VIBE-Tubes are set to different IP Addresses, you might want to put them in a sequence of .1, .2, .3 etc

12.3.4 Changing ArtNet Settings

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From the "Pixel-Mapped" System menu, select "Goto ArtNet Settings" and press ENTER, this will take you to the following display:

```
> BACK  ARTNET SETTINGS
  192 .168 .001 .200
  SubNet      Class C/24
  Uni: 0      GRB->GRBW
```

Using the up/down navigation you can move between the items on the page, starting with IP digit 1, moving along the line to the IP digit 4, then down to SubNet, Uni and finally Source Colour Order.

Device IP
The range of the first digit is 0-233,
The range of the other digits is 0-254.
This should allow you to set the VIBE-Tube to any IP address of your choosing, within the range of network valid addresses.

SubNet (SubNet Mask)
There are three options:
- Class A/8 (255.0.0.0)
- Class B/16 (255.255.0.0)
- Class C/24 (255.255.255.0)

Universe (Starting Universe)
This can be set from 0-255, although you should check with your application that it can send universe 0 or not.

Source Colour Order
This very much depends on the colour order that is set in the application that will be sending the pixel data. The colour order of the pixels in the VIBE-Tube is always GRBW (the nature of the pixels used), so if your application sends RGB order, then set "RGB->GRBW", or this instance the VIBE-Tube will interpolate the white from the RGB colour data. If your application is able to send 4 colour data (like RGBW), then select "RGBW->GRBW".

The Options for Source Colour Order are : RGB, GRB, RGBW or GRBW

12.3.5 Mapping ArtNet Universes/Channels to Pixels

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The following illustrations show how each VIBE-Tube is handled regarding pixel-mapping.
(Pixel mapping is shown looking directly at pixels)

When Source Data is 3 channels
(Source Colour Order = RGB or GRB)

Display End	
First Universe Chan 1	First Universe Chan 151
VIBE-100 VIBE-200 VIBE-300	VIBE-100 VIBE-200 VIBE-300
Second Universe Chan 1	Second Universe Chan 151
VIBE-200 VIBE-300	VIBE-200 VIBE-300
Third Universe Chan 1	Third Universe Chan 151
VIBE-300	VIBE-300

When Source Data is 4 channels
(Source Colour Order = RGBW or GRBW)

Display End	
First Universe Chan 1	First Universe Chan 201
VIBE-100 VIBE-200 VIBE-300	VIBE-100 VIBE-200 VIBE-300
Second Universe Chan 1	Second Universe Chan 201
VIBE-200 VIBE-300	VIBE-200 VIBE-300
Third Universe Chan 1	Third Universe Chan 201
VIBE-300	VIBE-300

Once your VIBE-Tubes are configured and connected to the Wi-Fi network, you can start sending pixel data to them !

12.3.6 Wi-Fi Signal Strength Indicator

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On the right hand side of the "Pixel-Mapped" main display, there is a Received Signal Strength Indicator (RSSI). This will give you help when setting up your system to ensure your tubes are getting the best response from the network.

12.4 "Master:DMX" Device Mode

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```
WIFI  MASTER:DMX     1
Network Not Connected
IP: 192.168.001.200
ArtNet 0        Chan 1
```

You would normally only have one VIBE-Tube set to this mode, where you can link it to a Wi-Fi router, and pass a few channels of control data to the device, which will, in turn will select the VIBE-Tube Master's program number, palette, etc.

The VIBE-Tube "Master:DMX" will be waiting for either an audio bass beat or a particular DMX channel transition to trigger the effect.

All VIBE-Tube Slaves that are linked to this VIBE-Tube Master will respond to what the Master is doing.

The device Wi-Fi channel is shown in the upper right of the display (this example is set to 1)

12.4.1 "Master:DMX" System Menu

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Pressing ENTER from the Master:DMX status page will take you to the Master:DMX system menu.

```
> BACK  SYSTEM MENU
  Device  MASTER:DMX
  Goto Mode Settings
  Goto ArtNet Settings
```

12.4.2 "Master:DMX" Mode Settings

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Pressing ENTER from "Goto Mode Settings" will take you to the Master:DMX mode settings page

```
> BACK  MODE SETTINGS
  Change Wi-Fi Network
  Goto Audio Settings
  Goto Pairing Menu
```

12.4.3 Connecting VIBE-Tube to a Wi-Fi Network

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From the "Master:DMX "Mode Settings" page, select "Change Wi-Fi Network" and press enter

See the section "12.3.2 Connecting VIBE-Tube to a Wi-Fi Network" above for how to connect the Master:DMX VIBE-Tube to the Wi-Fi Network.

In this mode, the Master:DMX device does NOT share the SSID/Password with other devices.

12.4.4 "Master:DMX" Audio Settings

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Pressing ENTER from "Goto Audio Settings" will take you to the Master:DMX audio settings

```
> BACK  AUDIO SETTINGS

  Trig Lvl        3
  Trig ---------------
```

Selecting "Trig Lvl" (trigger level) will allow you to adjust the trigger threshold that the bass drum impulse must reach/pass in order for a Trigger to qualify. This is especially useful when you need to put the trigger threshold up to reduce the chance of unwanted triggering, from voices or other noise. You can adjust the trigger threshold while also monitoring the level and any triggering, which is shown on the bottom line of the display.

This feature works in conjunction with DMX Channel 2 (Speed) setting, when the value is set to 255, and then routes the triggering from the Audio.

The range of trigger threshold levels goes from 1 (most sensitive, for quiet music), to 16 (least sensitive, for loud music)

12.4.5 Changing ArtNet Settings

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From the "Master:DMX" System menu, select "Goto ArtNet Settings" and press ENTER, this will take you to the following display:

```
> BACK  ARTNET SETTINGS
  192 .168 .001 .200
  SubNet      Class C/24
  Uni: 0        Chan 1
```

Using the up/down navigation you can move between the items on the page, starting with IP digit 1, moving along the line to the IP digit 4, then down to SubNet, Universe (Uni) and finally the DMX Start Channel (Chan).

Device IP
The range of the first digit is 0-233, the second is 0-254, the third is 0-254 and the last is 0-254. This should allow you to set the VIBE-Tube to any IP address of your choosing, within the range of legal values.

SubNet (SubNet Mask)
There are three options: Class A/8 (255.0.0.0), Class B/16 (255.255.0.0) and Class C/24 (255.255.255.0)

Universe
This can be set from 0-255, although you should check with your application that it can send universe 0 or not.

DMX Start Channel
This value can be set from 1-505, and represents the FIRST channel in the DMX stream where the VIBE-Tube DMX parameters are taken from. In "Master:DMX" mode, the device will take 8 channels, so if the start channel is set to 1, then channels 1 to 8 will be used.

VIBE-Tube DMX Profile - Channel Order

The VIBE-Tube DMX Profile consists of 10 channels:
Channel 1 : Program/Effect number
Channel 2 : Program Repeat Speed
Channel 3 : Colour Palette
Channel 4 : Parameter/Variation A **Channel 5** : Parameter/Variation B **Channel 6** : Parameter/Variation C **Channel 7** : Tube Sequence Control
Channel 8 : Master Brightness
Channel 9 : Strobe Speed
Channel 10 : After-Effects

Full breakdown of DMX Channels

- **Channel 1** : Program/Effect number
  There are currently 47 programs that can be accessed via DMX

Program	Range	Name	Parameter A (Ch4)	Parameter B (Ch5)	Parameter C (Ch6)
1	000-004	FillAllFromStatic	HUE 0-255	SATURATION 0-255	none
2	005-009	FillAllSlowFromPalette	none	none	none
3	010-014	FillLeftRightHalves	BeatAccent	AccentColour (W/B)	none
4	015-019	FillLeftRightHalves	BeatAccent	AccentColour (W/B)	none
5	020-024	FillTopBottomHalves	BeatAccent (white)	BlankOpposing	none
6	025-029	FillTopBottomHalves	BeatAccent	AccentColour (W/B)	VIBE-2/300 CopyStretch
7	030-034	FillTopBottomHalvesAlternate	BeatAccent (white)	BlankOpposing	VIBE-2/300 CopyStretch
8	035-039	ThreeWellBlockSequenced	BeatAccent (white)	UseDiagonals	VIBE-2/300 CopyStretch
9	040-044	ThreeWellBlockSequenced	BeatAccent (white)	UseDiagonals	VIBE-2/300 CopyStretch
10	045-049	FiveWellBlockSequenced	BeatAccent (white)	UseDiagonals	VIBE-2/300 CopyStretch
11	050-054	SixWellBlockSequenced	BeatAccent (white)	UseDiagonals	VIBE-2/300 CopyStretch
12	055-059	EightWellBlockSequenced	BeatAccent (white)	UseDiagonals	VIBE-2/300 CopyStretch
13	060-069	TwentyFiveWellBlockSeq	BeatAccent (white)	UseDiagonals	x-200/300 CopyStretch
14	070-074	FiftyWellBlockSequenced	BeatAccent (white)	UseDiagonals	VIBE-2/300 CopyStretch
15	075-079	FourBlockStepper	BeatAccent (white)	Breaker/Pulser	VIBE-2/300 CopyStretch
16	080-084	RandomBlockJumper	DoubleUp	UseDiagonals	VIBE-2/300 CopyStretch
17	085-089	Aster	BeatAccent (white)	none	none
18	090-094	ZigZag	BeatAccent (white)	none	none
19	095-099	SingleFlashStepper	BeatAccent (white)	none	InvertRight
20	100-104	Comb	BeatAccent	BeatAlternate	none
21	105-109	BlendBetweenColours	BlendSpacing	InvertRight	none
22	110-114	RandomBlockSizeFlare	DoubleUp	InvertRight	VIBE-2/300 CopyStretch
23	115-119	LeftRightSkyFinish	ExpandShrink	AlternateSides	none
24	120-124	QuadsRandomExpand	BeatAccent	none	none
25	125-129	QuadsRandomShrink	BeatAccent	none	none
26	130-134	OverwriteAlternate	WhiteLeader	InvertRight	none
27	135-139	DualColourWipe	Direction	UseAlternates	InvertRight
28	140-144	SmoothFlare	InvertRight	UseAlternates	none
29	145-149	FloatingClouds	InvertRight	none	none
30	150-154	QuadsRandomShrkExp	BeatAccent	ExpandShrink	Center/EdgeAccent
31	155-159	Battleship	BeatAccent	ExpandShrink	none
32	160-164	Plasma	Zoom	Speed	InvertRight
33	165-169	FireFlame	Height	none	none
34	170-174	Raindrops	InvertRight	DropperColumn	FadeAmount
35	175-179	FadingPixels	InvertRight	none	none
36	180-184	Lighthouse	InvertRight	BackFill dim/bright	none
37	185-189	ZigZagLightHouse	InvertRight	none	none
38	190-194	FadingLargePixels	DoubleUp	none	none
39	195-199	SteppedBlocks	BeatAccent (white)	UseAlternates	VIBE-2/300 CopyStretch
40	200-204	Helix	none	none	none
41	205-209	BigPulseQuads	BeatAccent (white)	BeatAccentPlace	InvertRight
42	210-214	QuadRotate	BeatAccent (white)	BeatAccentSize	none
43	215-219	BlockSequence	BeatAccent (white)	BlockSize	InvertRight
44	220-224	PixelScanner	DoubleUp	InvertRight	none
45	225-229	CenterPixelScanner	UseAlternates	Direction	InvertRight
46	230-234	RGBAll	RedValue	GreenValue	BlueValue
47	235-255	RGBW	RedValue	GreenValue	BlueValue

Selecting a new Effect/Program will trigger instantly it.

- **Terms used in the above table for parameters A, B and C**
  Hue: 0-255 represents 0-359°
  Sat: 0-255 represents 0-100% saturation
  CopyStretch: 0-127 copy pattern from 50x2 up to 100x2, 128-255 stretch pattern from 50x2 up to 100x2
  BeatAccent: 0-127 No Accent, 128-255 Add White accent on Beat
  AccentColour: 0-127 Black Accent, 128-255 White accent
  BlankOpposing: 0-127 none, 128-255 blank opposing side on each new beat
  Use Diagonals: 0-127 none, 128-255 new colour on beat occupies diagonal positions
  Breaker/Pulser: 0-127 Breaker, 128-255 apply break between pattern sections
  DoubleUp: 0-127 none, 128-255 add second block or accenting (usually a vertical reflection)
  InvertRight: 0-127 none, 128-255 invert right side compared to left
  BeatAlternate: 0-127 none, 128-255 alternate which side the beataccent will appear from
  BlendSpacing: 0-127 short, 128-255 long
  ExpandShrink: 0-127 none, 128-255 expanding from center, 128-255 shrinking towards center
  AlternateSides: 0-127 both sides at the same time, 128-255 switch between alternating left/right
  WhiteLeader: 0-127 none, 128-255 add white pixel leader to front edge of moving direct
  Direction: 0-127 up, 128-255 down
  Center/EdgeAccent: 0-127 accent in center, 128-255 accent at edge
  Plasma Zoom: 0-255 range controls plasma zoom from 0 zoomed out, to 255 zoomed in
  Plasma Speed: 0-255 range controls plasma speed from 0 slowest, to 255 fastest
  FireFlame Height: 0-255 range controls flame height from 0 short, to 255 tallest
  Raindrops DropperColumn: 0-127 no, 128-255 range controls either 2-4 drops on VIBE-100 or 4-8 drops on VIBE-200
  Lighthouse BackFillDim/Bright: 0-127 off, 128-255 on
  BeatAccentPlace: 0-127 edge, 128-255 center
  BeatAccentSize: 0-127 small, 128-255 large
  BlockSize: 0-127 small, 128-255 large
  RedValue: 0-255 represents 0-100% Red Brightness
  GreenValue: 0-255 represents 0-100% Green Brightness
  BlueValue: 0-255 represents 0-100% Blue Brightness

- **Channel 2** : Program Repeat Speed
  000 : Idle State – program stopped
  001-254 : Speed (0.5hz to 5hz)
  255 : Advances when triggered by bass beat (requires trigger level to be set)

- **Channel 3** : Colour Palette
  000-009 =Red (Fuchsia-Red-Amber-White)
  010-019 =Amber (Red-Amber-Orange-White)
  020-029 =Orange (Amber-Orange-Yellow-White)
  030-039 =Yellow (Orange-Yellow-Lime-White)
  040-049 =Lime (Yellow-Lime-Green-White)
  050-059 =Green (Lime-Green-Mint-White)
  060-069 =Mint (Green-Mint-Cyan-White)
  070-079 =Cyan (Mint-Cyan-Sky-White)
  080-089 =Sky (Cyan-Sky-Royal-White)
  090-099 =Royal (Sky-Royal-Blue-White)
  100-109 =Blue (Royal-Blue-Violet-White)
  110-119 =Violet (Blue-Violet-Purple-White)
  120-129 =Purple (Violet-Purple-Magenta-White)
  130-139 =Magenta (Purple-Magenta-Fuchsia-White)
  140-149 =Fuchsia (Magenta-Fuchsia-Red-White)
  150-159 RGB (Red-Green-Blue)
  160-169 CMY (Cyan-Magenta-Yellow)
  170-179 Red-White
  180-189 Green-White
  190-199 Blue-White
  200-209 Magenta-White
  210-219 All-Colours

- **Channel 4/5/6** : Parameter/Variation A/B/C
  See above 'Program' table for more information

- **Channel 7** : Tube Sequence Control
  Currently there are 6 settings for this control:
  000-019 No Sequencing
  020-039 Sequencing tubes 1-2-3-4 repeating
  040-059 Sequencing tubes 4-3-2-1 repeating
  060-079 Sequencing tubes 12-34 repeating
  080-099 Sequencing tubes 13-24 repeating
  100-119 Sequencing tubes 14-23 repeating

- **Channel 8** : Master Brightness
  Range 0-255 (0-100%)
  NOTE: Changes to the Master Brightness value will will be instantly updated on Master and all paired Slaves

- **Channel 9** : Strobe
  Range 0-255 (0-100%)
  000 = None/Normal operation
  001 = Slowest Strobe (5Hz)
  255 = Fastest Strobe (12Hz)
  NOTE: Changes to the Master Strobe value will will be instantly updated on Master and all paired Slaves

- **Channel 10** : After-Effects
  After-Effects are pixel manipulation effects that are added after the main program, and can significantly improve the versatility of the tube
  There are 13 After-Effects available

  000-009 No After-Effect
  010-019 1: Downwards Travellator
  020-029 2: Upwards Travellator
  030-039 3: Opposing Travellators, Left Down, Right Up
  040-049 4: Travellators from Edge to Center
  050-059 5: Travellators from Center to Edge
  060-069 6: Opposing Edge/Center Center/Edge Travellators
  070-079 7: Full Tumble, virtual rotation full circle
  080-089 8: HalfTumble (not VIBE-100) Top half Tumble, followed by bottom half tumble
  090-099 9: Double Half Tumble (not VIBE-100) Top half Tumble, but top and bottom together
  100-109 10: DoorSwing, top and bottom swing about the tube edges
  110-119 11: Breathe, smooth up/down banding like swallow's tail
  120-129 12: Opposing Breathe, as above but left and right are 180° out of sync
  130-139 13: Zoom, zooming in to 3x, then back out again to 1x
  NOTE: Some Effects do not support certain After-Effects

12.4.6 Wi-Fi Signal Strength Indicator

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On the right hand side of the "Master:DMX" main display, there is a Received Signal Strength Indicator (RSSI). This will give you help when setting up your system to ensure your Master is getting the best response from the network.

12.4.7 "Master:DMX" Trigger Threshold Control

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At any time from the top-level Master:DMX display, you can adjust the trigger threshold by using the Left/Right (adjust) controls.

There are 16 trigger threshold levels, from 1 (most sensitive, for quiet music) to 16 (least sensitive, for loud music). Setting the right trigger threshold is very useful when you need to reduce the chance of unwanted triggering, from voices or other noise.

12.5 "Master:RGBW" Device Mode

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```
> Red   50
  Grn   75
  Blu   50
  Wht   25
```

Setting to this mode will allow you to set a precise colour using Red, Green, Blue and White controls.

Adjustment range is from 0-255 (0-100% on each channel)

Use the up/down (select) controls to move between the lines, and forward/backward (adjust) to change the value. All adjustments happen immediately, and all values are saved for the next time you return to this mode.

All VIBE-Tube Slaves that are linked to this VIBE-Tube Master will respond to what the Master is doing.

12.6 "Master:HSI" Device Mode

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```
     MASTER:HSI       1
> Hue   50
  Sat   50
  Int   75
```

Setting to this mode will allow you to set a precise colour using Hue, Saturation and Intensity (brightness) controls.

Adjustment range is 0-359° on the Hue Channel, and 0-255 on the Saturation and Intensity Channels (representing 0-100% value).

Use the up/down (select) controls to move between the lines, and forward/backward (adjust) to change the value. All adjustments happen immediately, and all values are saved for the next time you return to this mode.

All VIBE-Tube Slaves that are linked to this VIBE-Tube Master will respond to what the Master is doing.

VIBE-Tube Remote control (both Infra-Red and VIBE-Deck Remote) will allow you to select preset colours from the keypad, that can then be finely adjusted.

The device Wi-Fi channel is shown in the upper right of the display (this example is set to 1)

12.7 "Master:CCT" Device Mode

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```
     MASTER:CCT       1
> Tmp  50
  Int  75
```

Setting to this mode will allow you to set a precise colour temperature using Temperature and Intensity (brightness) controls.

Adjustment range is 40(4000K) to 70(7000K) for Colour Temperature, and 0-255 (0-100%) for Intensity levels.

Use the up/down (select) controls to move between the lines, and forward/backward (adjust) to change the value. All adjustments happen immediately, and all values are saved for the next time you return to this mode.

All VIBE-Tube Slaves that are linked to this VIBE-Tube Master will respond to what the Master is doing.

12.8 "Master:Demo" Device Mode

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```
Soft ---------       1
MASTER DEMO MODE
       PROG 14-1
Trig ----T---
```

Setting to this mode will go through Programs/Effects, advancing after a while.

You can adjust the BPM of the demo by moving the Navigation switch forward/backward, the range is 60 BPM to 120 BPM.

You can also jump-ahead on the program selection by moving the Navigation switch up/down.

A user can interact with this mode by using either the Infra-Red Remote, or the VIBE-Deck Remote, to give change of colour and some effects (see "Remote Control").

All VIBE-Tube Slaves that are linked to this VIBE-Tube Master will respond to what the Master is doing.

The device Wi-Fi channel is shown in the upper right of the display (this example is set to channel 1)

13. Enabling & Disabling Remote Control

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There may be times that you DO NOT want any remote control of a VIBE-Tube Master. There may be times when you want either the Infra-Red Remote, or the VIBE-Deck Remote. Or perhaps you need both.

There are advantages for being able to disable the Infra-Red remote, because the handset is a typical handset that are available with many lighting systems, and many people have product that they control, but more importantly you may not want your VIBE-Tube system interfered with by a rogue IR controller.

To access the Remote Selection page from "Master:Audio", "Master:Demo" or "Master:HSI" display, press and hold ENTER for 5 seconds (the SYSTEM MENU page will appear briefly, this is intentional so keep holding ENTER), then the following display will appear (and you can release ENTER):

```
> BACK  REMOTE CONTROL
  Both Remotes
VIBE-Deck Password
smartshow_VD8_xxxx
```

Scroll down to the options, press ENTER and adjust the selection, press ENTER to exit parameter editing, and now the VIBE-Tube will enable or disable the remotes as you have selected.

Also shown on this page is the unique password that is required to access the VIBE-Deck Remote (see below)

14. Accessing the VIBE-Deck Remote

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In certain Modes (Master:Audio, Master:Demo, Master:HSI), there will be a Wi-Fi HotSpot available for you to connect to, this is called "VIBE-Deck Remote xx" (the xx will be two specific alpha-numeric characters), and requires a special password to connect. To obtain the password go to "13. Enabling & Disabling Remote Control" above.

Selecting the Wi-Fi network on your mobile phone or tablet, therefore access the devices wireless networks, Select "VIBE-Deck Remote xx" (SSID), and entering the password you were given, and ensure the auto-reconnect is enabled. Then you will see the SSID in your WIFI list with "Sign in to the network". Just press the link and it should automatically sign in and keep those details in your phone/tablet

Once the webpage is open, you will see a series of indicators and buttons:

- **Sound Pressure Level** this is constantly monitored for our DMT (dynamic music tracking algorithm).
- **"Trigger Threshold up/down"** adjusts the audio triggering threshold when in Master:Audio mode, in 16 levels.
- **Trigger Indicator** between the two trigger threshold buttons you will see a green or red vertical bar appear when a bass drum is heard. If there is no indication at all then the threshold is set too HIGH, lower until you see a red/green bar appear. If the bar is mostly red then the trigger threshold is set too LOW, lower until you only see a green bar.
- **"Standby/Blackout"** - In general this will cause all paired Vibes to go off, although Master:Audio mode requires two presses to go to Blackout.
- **"On/Shuffle"** - Brings all paired Vibes out of Blackout mode and into normal operation of its mode. If the VIBE-Tube is already running (ON) then pressing this button will "shuffle" the program to another random one.
- **10 colour buttons** - In Master:Audio Mode, these will select the colour palette in-use, and will override any randomly selected one during a song; In Master:HSI Mode pressing a colour button is a shortcut to setting a specific colour. The output colour is matched to the colour of the button.
- **"Flash"** - In Master:Audio and Master:Demo modes this will give a single white flash, like a camera flash.
- **"Strobe"** - In Master:Audio and Master:Demo modes this will give 6 flashes of white approximately 120ms apart for each press, therefore if the button is pressed once per second you can get a continuous strobing effect.
- **"Blinder"** - In Master:Audio and Master:Demo modes this will produce a bright white light, then fade back to what ever it was previously doing, like a flashbomb.
- **"Slow"** - Changes the audio parameters to accomodate a slow song, or soft set.
- **"Medium"** - Changes the audio parameters to accomodate a medium paced or varied song.
- **"Fast"** - Changes the audio parameters to accomodate a fast song, or lively set.

At the bottom of the VIBE-Deck Remote page, there is a status box, this gives you updated information on the current mode you are able to control from the VIBE-Deck Remote.

Below the status box you will see a link for "VIBE-Tube User Guide", if you click the link THIS User Guide will open up in a new window. It is worthwhile getting a printout of the User Guide so you have it to hand, but in case you lose it you can always find it at this link.

15. The Infra-Red Remote Control

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This is low cost remote control that some-what replicates the functions of the VIBE-Deck Remote. The IR Receivers are mounted on the VIBE-Tube above and below the OLED display, therefore you should take care in positioning yourself in proximity to the sensors when using the IR Remote.

NOTE: If you find you are getting interference from external IR signals then the Infra-Red remote control reception can be switched on and off. See 13. Enabling & Disabling Remote Control for more details.

On the rear of the Infra-Red Remote is the QR code for access to the VIBE-Deck Remote.

16. Display Blanking (Sleep)

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(With the exception of MASTER:DEMO mode) after 30 seconds of no user interaction of the navigation switch, the display will dim, then after 3 minutes of inactivity the display will go off

If the display is dim or off, it can be brought back to life with any touch of the Navigation button

17. ArtNet Discovery

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Once a VIBE-Tube is connected to a network in Master:DMX or Pixel-Mapped mode it can be discovered via an Art-Net ArtPollRequest.

18. Dimensions & Weight

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VIBE-100 : 571mm length, 31mm x 32mm wide. Weight: 220g
VIBE-200 (including base): 1200mm length, 31mm x 45mm wide. Weight: 600g
VIBE-300 (including base): 1580mm length, 31mm x 45mm wide. Weight: 800g

19. Software Compatibility

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VIBE-100/200/300 works with all free and commercial Art-Net compatible DMX and Pixel Mapping software:
Madrix, Resolume, MadMapper, Chamsys MagicQ, ELM, LightJams, LED Strip Studio, Jinx, XLights and many others.

20. Firmware Upgrades

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From time to time, firmware upgrades will become available, the information of this will be available on the smartshow lighting website and an upgrade package can be downloaded onto your windows PC, and deployed to your VIBE-Tube to update it. More information will be supplied with the update itself. THIS user manual will automatically be updated with the new firmware.

21. Technical Support

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email : sales@smartshow.lighting

22. Warranty enquiries

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email : warranty@smartshow.lighting

23. Frequently Asked Questions (FAQs)

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Q: I am in Audio Mode but I can't get my master to respond to the music
A: Either your trigger threshold is set too high, or you dont have enough bass frequencies to trigger it (remember: the smaller the speaker diameter, the less lower frequencies you will get from it). Lowering the trigger threshold down to 1 (most sensitive) to see bass beats triggering is a good start, then slowly raise the threshold until the triggering stops (you have gone too far), then lowering the trigger threshold a few stops until the triggering starts again.

Q: In Master:DMX or Wifi-Pixel mode and I cant seem to connect to my wireless router
A: Your router AP and password need to be at least 8 characters long

Q: I have connected my Master:DMX tube to my router but I cant get any data through
A: Firstly, check that your router is not set to Auto-Channel mode, it should ideally have a channel of either 1, 6, or 11. Secondly, the VIBE-Tube you are trying to connect to it must also be set to the same channel number as the router, see "10. Wireless Connectivity - IMPORTANT"

Q: My Master VIBE-Tube master seems to change unexpectedly like its being controlled externally by some dark force
A: This is likely to be Infra-Red control appearing from another source. From the top level display, press and hold ENTER for about 5 seconds until you see the "REMOTE CONTROL" display, there you can select which remote control type you need, or switch all off

Q: How do I get to the latest User Guide?
A: Access to the User Guide that matches the firmware you are running, depends on which mode the VIBE-Tube master is in:
If your VIBE-Tube is in Master:Audio mode, then firstly access the VIBE-Deck Remote control, and the link to the user guide is at the bottom of the page.
If your VIBE-Tube is in Master:DMX mode and you have it connected to a Wi-Fi router, then the User Guide is available by simply typing the VIBE-Tubes IP address into a browser that is also on the same network. Alternatively, scan the QR code that came on the Welcome page for the User Guide that matches the current release of VIBE-Tube firmware (this might not necessarily be the firmware you are actually running on the VIBE-Tubes).