



TETRATUNE
BY VIDEOWORKS

WEB CONTROL

USER INTERFACE V1.0

TETRATUNE CONTROL

Tetratune can be controlled via a user interface that is available by inputting the IP address of the Tetratune into any internet connected web browser and is optimised for desktop or mobile device use.

Control and monitoring of Tetratune functions are available and cover the following key functions.

- Choose a LUT from the memory (LUT selection)
- Copy or delete a LUT preset (LUT settings)
- Bypass a LUT (LUT disable)
- Administration settings

Connecting to the Tetratune








To control Tetratune using the web user interface (UI), observe the following steps to get started.

- Plug the Tetratune into the display using the HDMI cable
- Plug in a network cable connected to the local router
- Power up the unit without an HDMI source connected
- Once the unit has initialised, an IP address will be displayed on your screen
- Use the IP address in a web browser to access the web UI

Please note: Access to calibration functions and features should be made through the chosen calibration software, e.g. ColourSpace from Light Illusion.

USER VIEW

Once you have accessed the web-based user interface, the User View screen will appear and display a range of options covering status and control. (See below)

 VIDEOWORKS	
SYSTEM	Video Information
 Tetratune Status	Input Detected ✓
 Tetratune LUT Selection	Input Supported ✓
NETWORK	Video Mode 3840x2160p24
 System Status	Colour Space YCbCr 4:4:4
QUICK ACTIONS	Bit Depth 10
 Locate Device 	Colour Information
 Admin Area	Colourimetry ITU-R BT.2020 Y'CbCr
	Quantisation Range Limited
	HDR Information
	EOTF ST2084
	Display Primaries (0.265, 0.69), (0.15, 0.06), (0.68, 0.0032)
	White Point (0.3127, 0.329)
	MaxMDL 10000
	MinMDL 0.0001
	MaxCLL 10000
	MaxFALL 250
	Audio Information
	Channels 2
	Frequency 48000

**Please note data shown is for illustrative purposes only.*

Tetratune has two modes of operation, User view (see above) or through the Admin Area, where a password is required to display additional functions.

When viewed as a user, the menu bar gives access to five key aspects of Tetratune. The user can view status, select a LUT, locate a Tetratune on the network or access extended product features once a password has been entered.

Please note: A user defined password is recommended when selecting the Admin Area with details in this guide.

TETRATUNE STATUS

This menu displays details of the video signal being received by the Tetratune at any time, and as the illustration above shows is split into four main sections.

Video Information – Details covering the resolution, colour space and detected bit depth of the signal. If no signal is detected a cross will appear against the “Input Detected” line and the remaining parameters will be N/A.

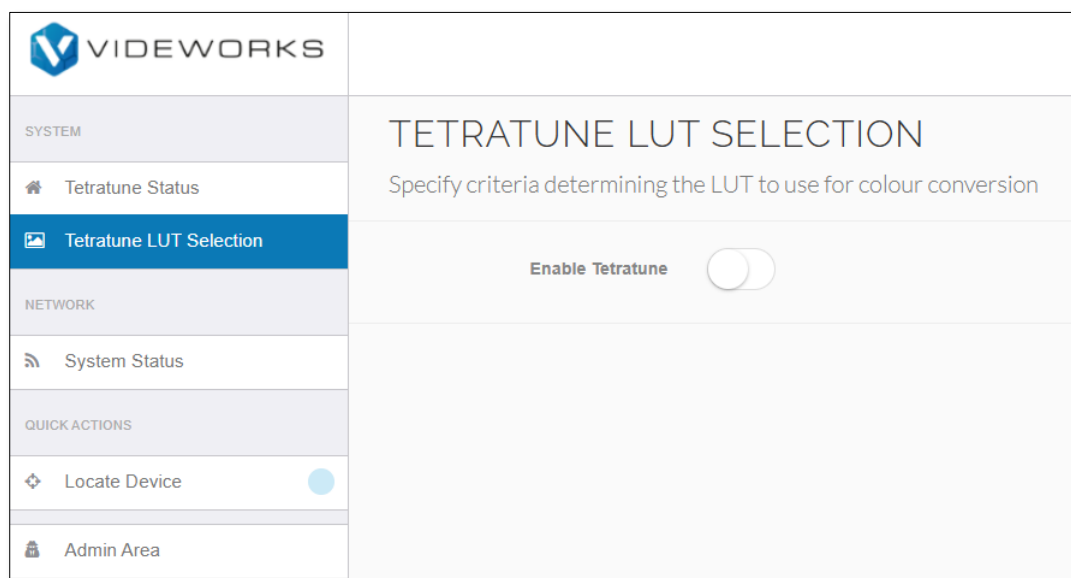
Colour Information – Details covering the colorimetry of the detected signal. For example, BT 2020, BT709. Colour quantisation is automatically either Limited or Full based on the input signal.

HDR Information – Details covering colour and minimum and maximum brightness level of the source material when HDR is detected. When a signal is detected without HDR the menu will display N/A.

Audio Information – Details of the audio signal received, including bit-rate quality.

TETRATUNE LUT SELECTION

Tetratune can be used with a LUT enabled or in bypass mode where the unit passes the video signal through without manipulation. With the LUT engaged the output video signal is adjusted according to the LUT selected.



When the LUT is enabled a choice of input types are available. By default, “Auto” will choose the most appropriate setting based on the input video signal sensed. Alternatively, the input type may be selected manually from the options available.

The user may choose from up to five screen types where multiple screens are required and five different modes to differentiate a new calibration from an older one or to reflect day or night.

This is achieved through the calibration software.

VIDEOWORKS

SYSTEM

Tetratune Status

Tetratune LUT Selection

NETWORK

System Status

QUICK ACTIONS

Locate Device

Admin Area

TETRATUNE LUT SELECTION

Specify criteria determining the LUT to use for colour conversion

Enable Tetratune

Selected LUT 1 greyscale/packed.bin

Input Status 3840x2160p60 YCbCr 4:4:4 8-bit (SDR)

Input	Screen	Mode
Auto	Living Room	Greyscale
SDR	Cinema Room	Passthrough
PQ/HDR10	Lounge	Film
HLG		Tuned
Other		White

The user may also control Tetratune on a mobile device where screens will appear optimised for the device in use.

17:04

192.168.5.156/admin/

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TETRATUNE LUT SELECTION

Enable Tetratune

Selected LUT 9 Test(White)

Input Status 1920x1080p60 YCbCr 4:4:4 8-bit (SDR)

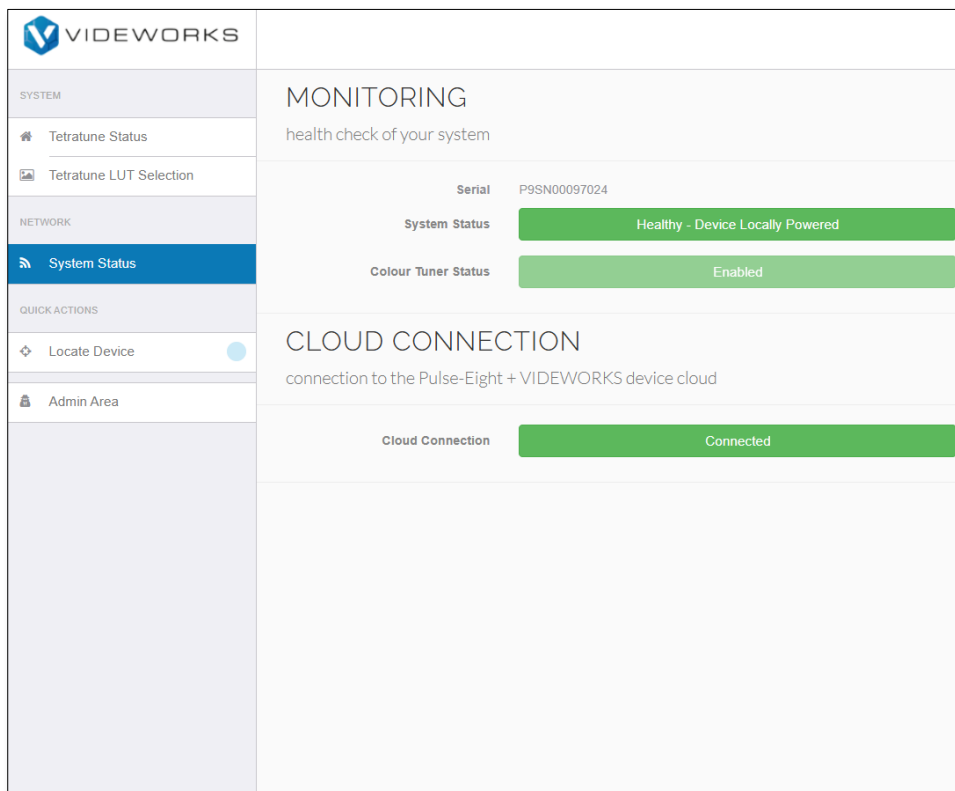
Input	Screen	Mode
Auto	Sony TV	Night
SDR	JVC Projector	Day
PQ/HDR10		
HLG		
Other		

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Please note: If a yellow warning triangle appears next to a menu, this indicates the need for user attention.

SYSTEM STATUS

An overview of the Tetratune system status is available from the User View screen. This display shows how the unit is powered and whether the LUT is enabled. Where a cloud connection is available, the unit will automatically connect to send diagnostics. When there is no connection to the Cloud service this menu will appear as “not connected”. Tetratune will function as normal when this appears.



Locate Device

The Tetratune web interface can be used to identify the connected Tetratune by selecting this option. An identifying LED illuminates on the Tetratune that identifies the Tetratune and can be useful when more than one Tetratune is connected.



ADMIN AREA

Gaining access to the Admin Area allows access to the following additional functionality.

- Device Health
- Cloud Connection
- Network Settings
- Device Settings
- Hardware Details
- Tetratune Demo Settings
- Change Password
- Reboot Device

To access these additional functions and settings, select the “Admin Area” menu option from the main menu bar.

The web-based user interface requires a password to access this area. The default password is “**admin**” when first used. Once logged into the admin area you will see the following.

The screenshot displays the VIDEOWORKS Admin Area interface. On the left is a sidebar menu with the following sections:

- ADMINISTRATION**
 - Tetratune Status (highlighted)
 - Device Health
 - Cloud Connection
 - Network Settings
 - Device Settings
 - Hardware Details
- TETRATUNE CONFIGURATION**
 - Tetratune LUT Settings
 - Tetratune LUT Selection
 - Tetratune Demo Settings
- QUICK ACTIONS**
 - Locate Device
 - User View
 - Change Password
 - Logout
 - Reboot Device

The main content area on the right is divided into several sections:

- Video Information**

Input Detected	✓
Input Supported	✓
Video Mode	3840x2160p24
Colour Space	YCbCr 4:4:4
Bit Depth	10
- Colour Information**

Colourimetry	ITU-R BT.2020 Y'C'bC'r
Quantisation Range	Limited
- HDR Information**

EOTF	ST2084
Display Primaries	(0.265, 0.69), (0.15, 0.06), (0.68, 0.0032)
White Point	(0.3127, 0.329)
MaxMDL	10000
MinMDL	0.0001
MaxCLL	10000
MaxFALL	250
- Audio Information**

Channels	2
Frequency	48000

**Please note data shown is for illustrative purposes only.*

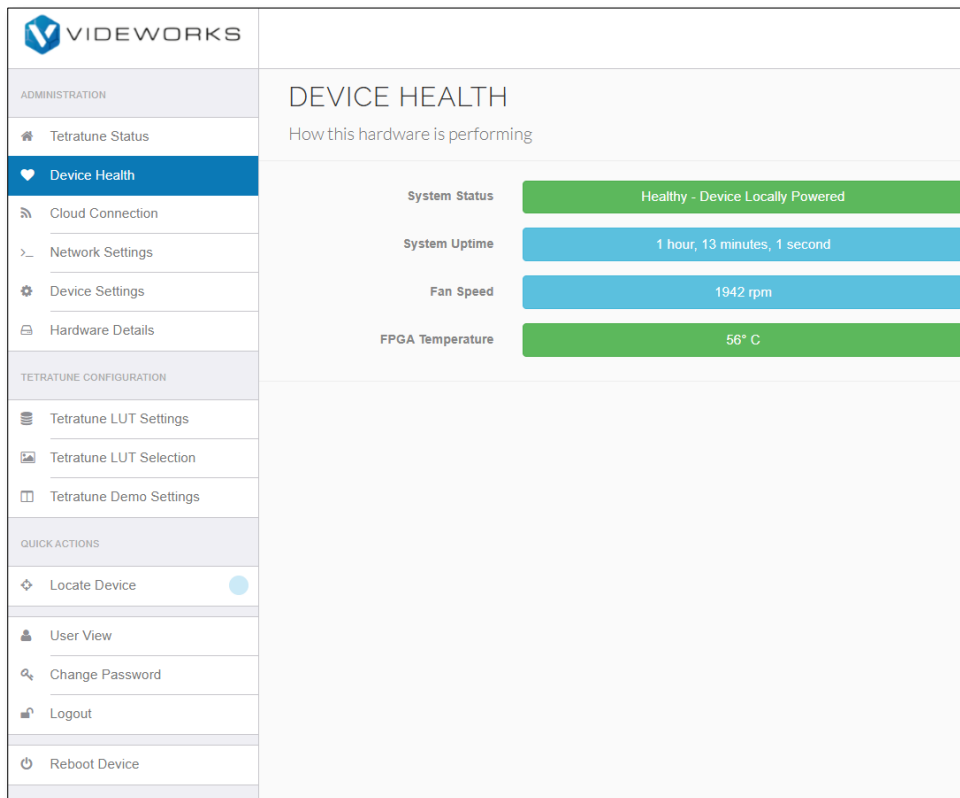
We recommend changing the default password after first gaining access to the administration area. This can be done through the “**Change Password**” function shown in the illustration above.

This menu unlocks several additional menu options as follows.

Device Health

Details to cover the operating parameters of the Tetratune hardware. When the hardware is operating outside of its optimum conditions Tetratune may reboot.

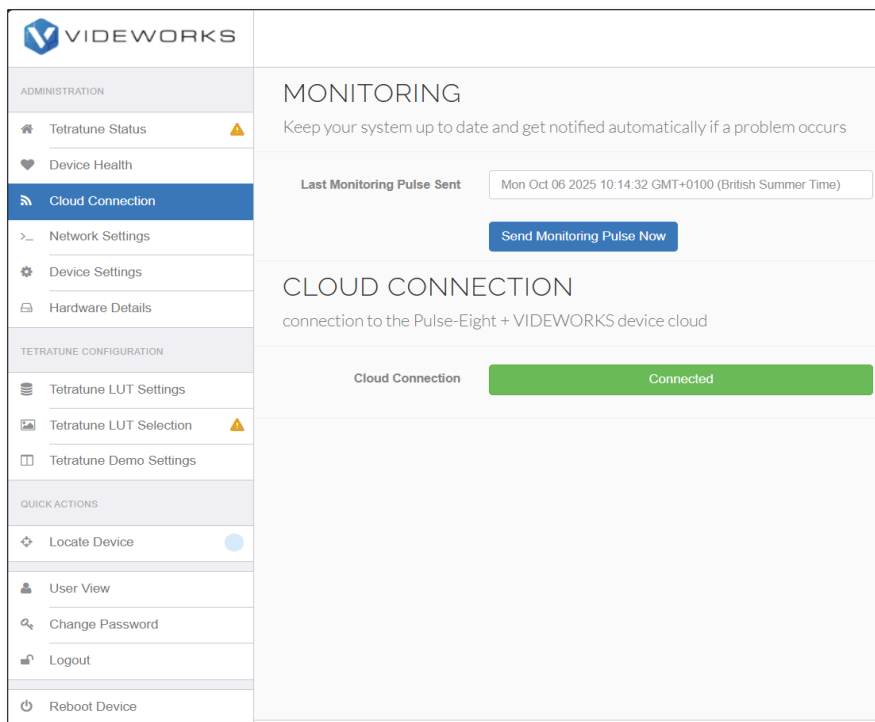
The menu item will have a red background colour and a message to identify the issue. If this happens, please re-locate the device to ensure free ventilation around it.



Cloud Connection

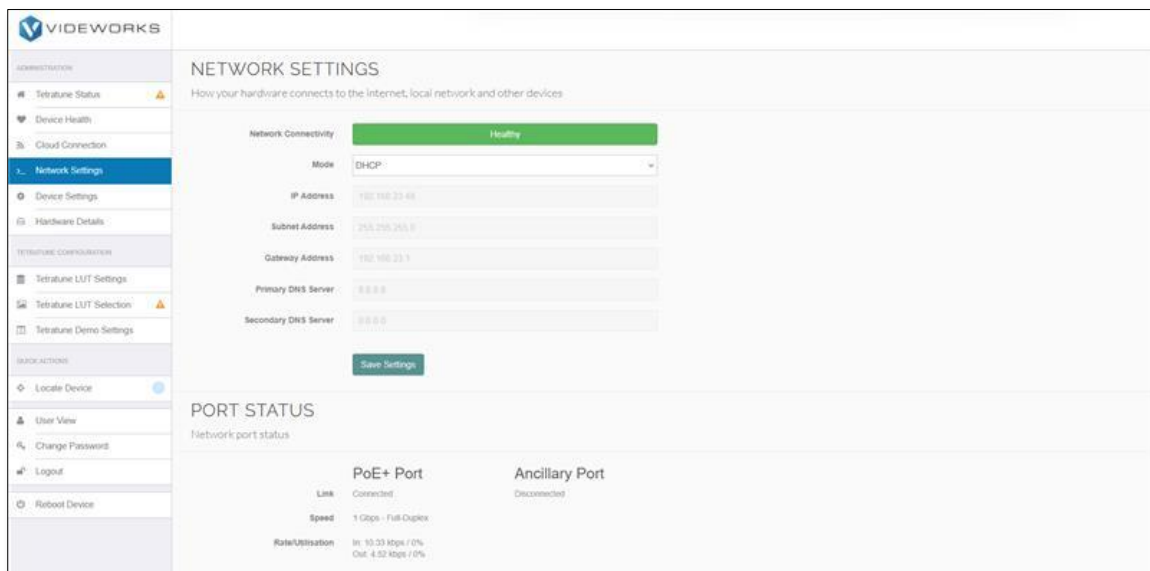
To keep Tetratune up to date, when connected to the internet the unit will send an hourly message (pulse) to ensure it remains operational using the latest build specification. When required for service and support reasons the user may use the “Send Monitoring Pulse Now” button to initiate this function outside of the normal message frequency.

Please note: To ensure the unit receives over the air updates, ensure a suitable internet connected network is connected. If the menu shows “not connected”, check the network connection.



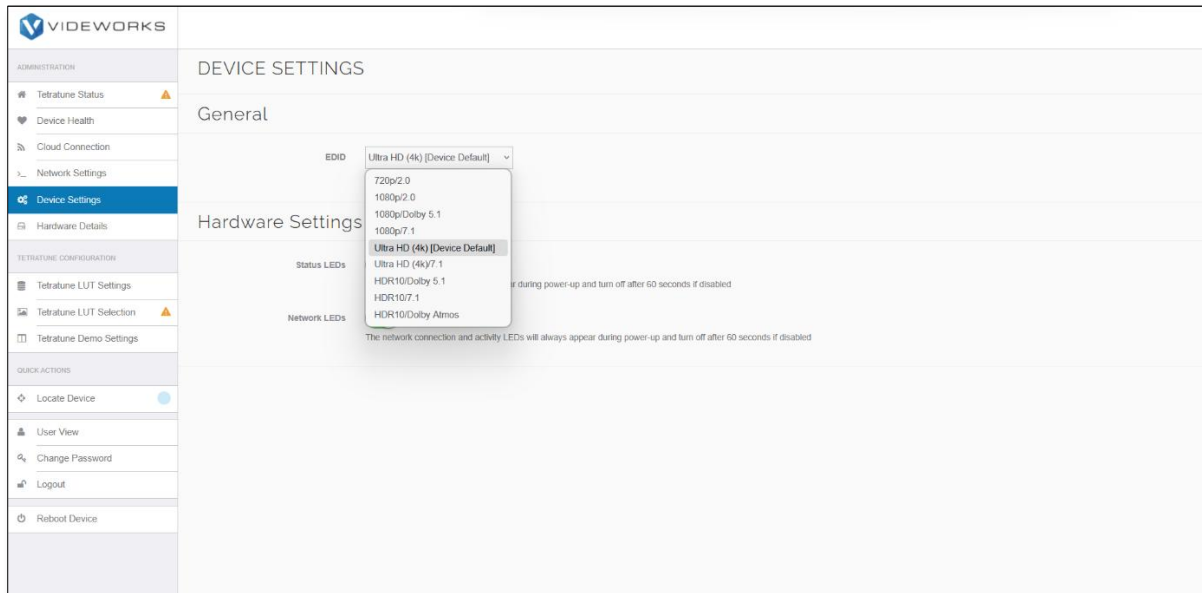
Network Settings

Details of the status of network connectivity and port status are contained in this menu. They allow the user to change the default DHCP connectivity mode to manually assigned IP addressing. Where this is chosen, Tetratune allows input of these details.

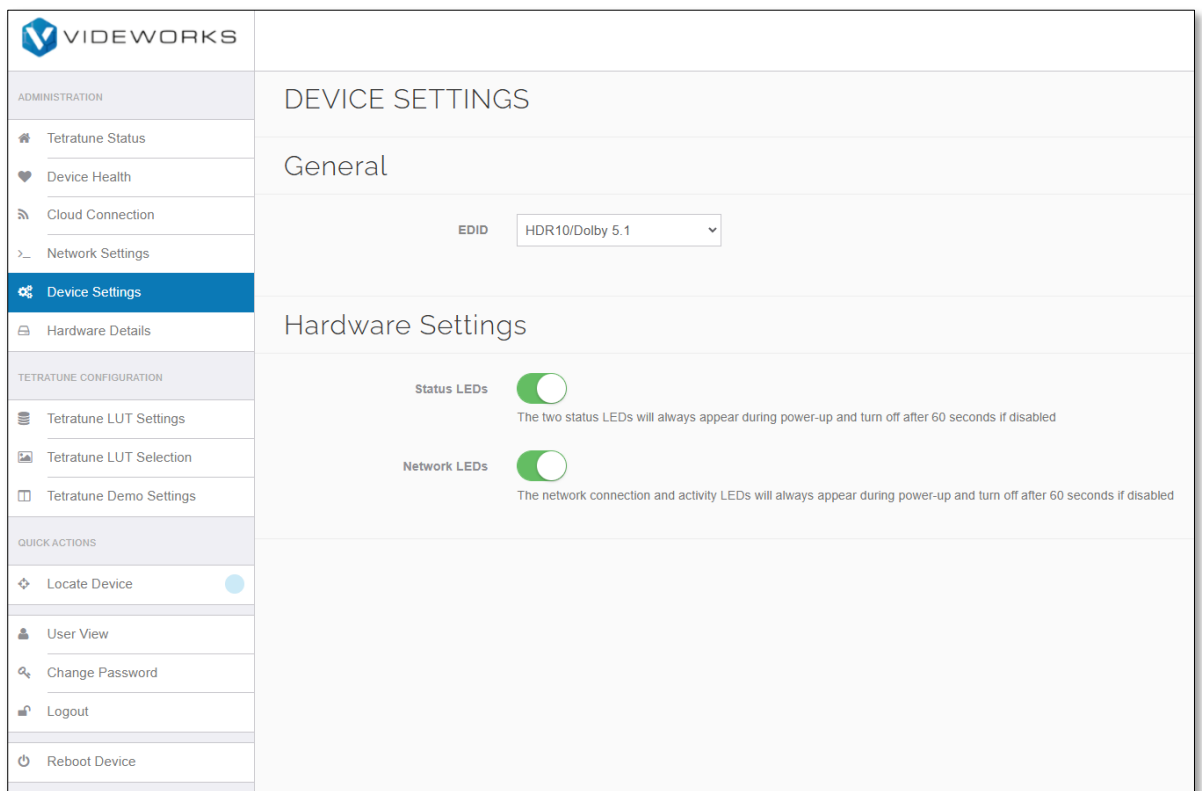


Device Settings

Tetratune uses EDID to ensure output to the connected device/display is correct. As a default, Tetratune is set to Ultra HD (4K). However, additional options are available to manually match the capabilities of the display through the drop-down menu.

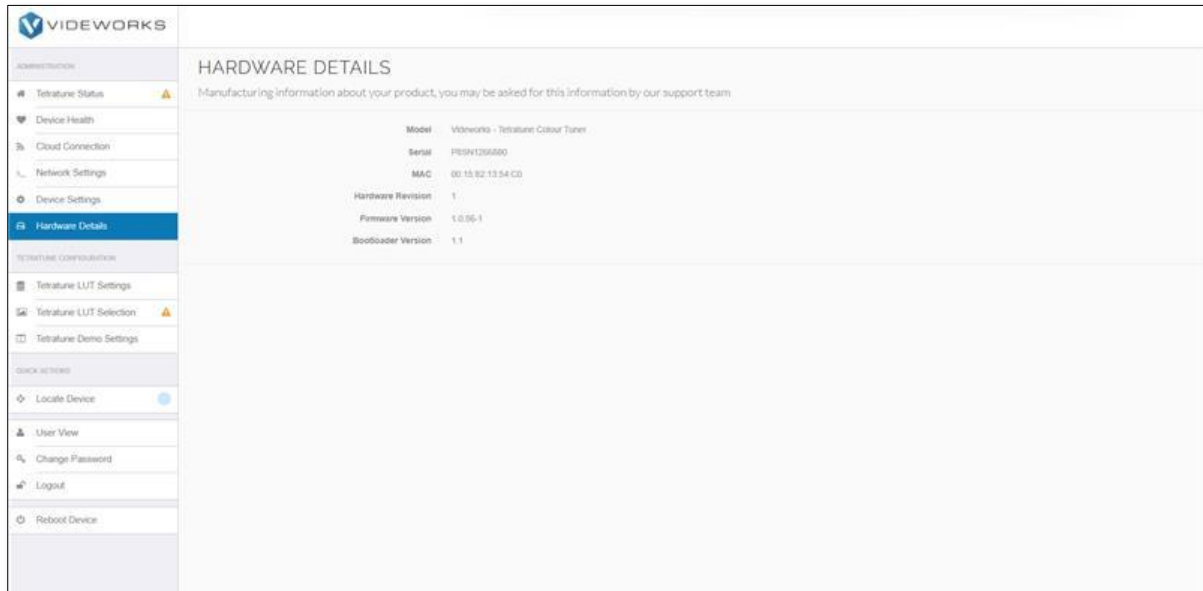


LEDs that show Tetratune status and network connectivity can be switched off in this menu, if required. Please see the image following for more information.



Hardware Settings

For future service and support, this menu covers the build specification of the product and may be used to confirm operational functionality when required.



TETRATUNE CONFIGURATION

Tetratune LUT Settings

This menu allows the user to change how Tetratune uses the LUTs by adjustments to the Input, Screen type or Mode.

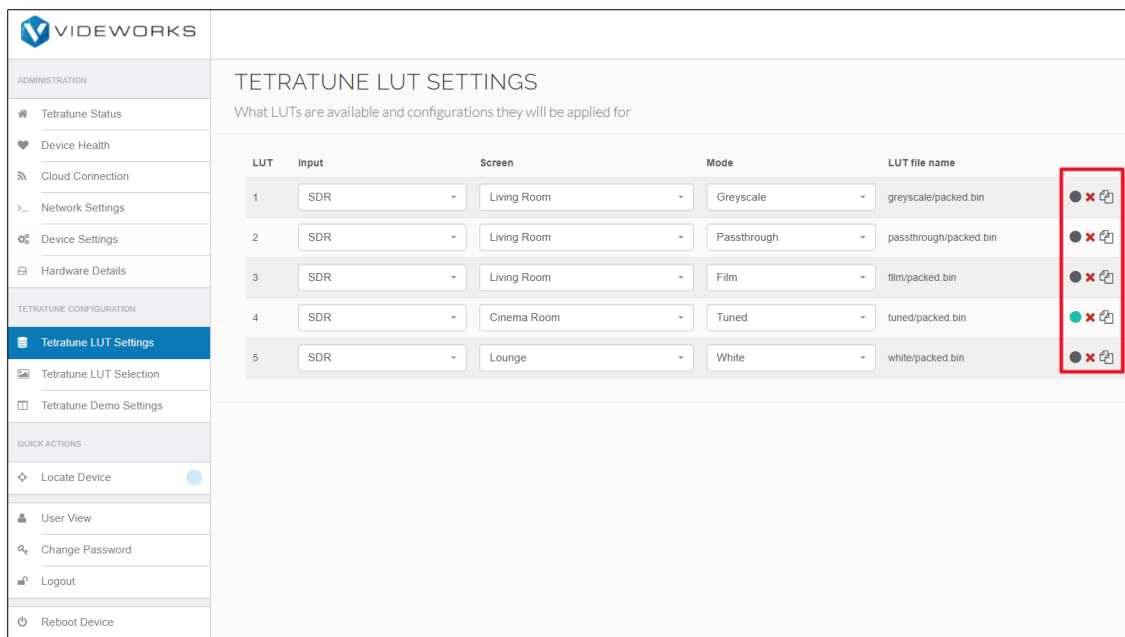
Input – When using the default “Auto” setting Tetratune will detect the type of HDR. Alternatively, the user may override this and manually choose between SDR, PQ/HDR10, HLG or Other.

Screen – The user may assign a destination screen type/name to this preset to differentiate between LUT’s created for different screen types. This is a user defined parameter by clicking on the drop-down box and selecting an option or manually creating an entry.

Mode – When the user uploads a LUT, they can select the mode from the available options or create a custom mode.

Please note: Tetratune users may use the copy or delete icons (see below) to either create an additional LUT preset or delete one from the list. The system will prompt to save changes as part of this process.

Please note: Tetratune is designed for LUT upload via the calibration software only and should always be used in this way.

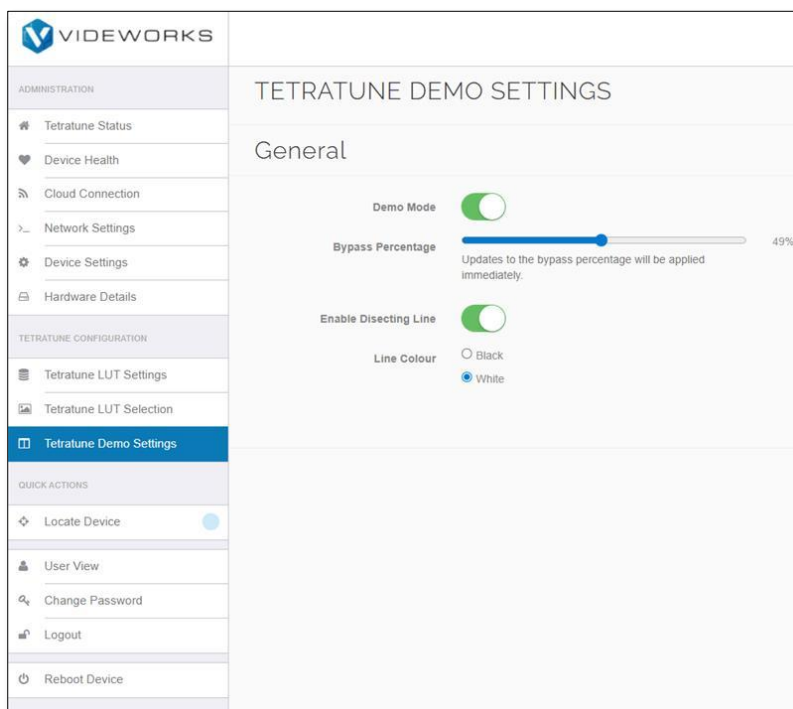


Tetratune Demo Settings

Tetratune can be used in “demo” mode to show the difference when a loaded LUT is active and bypassed using the same video source content on the output screen.

When in demo mode the user can engage a movable split line (Dissecting Line) to show more or less of either the output bypass percentage or with the active LUT engaged.

The dissecting line can be either black or white.



The following is an illustration of the demo mode available as part of Tetratune.



User View

When in the Admin Area, the user may exit this mode back into the User View mode using this menu selection.

VIDEOWORKS

ADMINISTRATION

Tetratune Status

Device Health

Cloud Connection

Network Settings

Device Settings

Hardware Details

TETRATUNE CONFIGURATION

Tetratune LUT Settings

Tetratune LUT Selection

Tetratune Demo Settings

QUICK ACTIONS

Locate Device

User View

Change Password

Logout

Reboot Device

Video Information

Input Detected

✓

Input Supported

✓

Video Mode

3840x2160p24

Colour Space

YCbCr 4:4:4

Bit Depth

10

Colour Information

Colourimetry

ITU-R BT.2020 Y'CbCr

Quantisation Range

Limited

HDR Information

EOTF

ST2084

Display Primaries

(0.265, 0.69), (0.15, 0.06), (0.68, 0.0032)

White Point

(0.3127, 0.329)

MaxMDL

10000

MinMDL

0.0001

MaxCLL

10000

MaxFALL

250

Audio Information

Channels

2

Frequency

48000

Please note, a password is required to re-gain access to the Admin Area (see Change Password section).

Reboot Device

If there is a need to reboot the device this button can be used to force a reboot.

The image shows the VIDEOWORKS web interface. On the left is a sidebar menu with sections: ADMINISTRATION (containing Tetratune Status, Device Health, Cloud Connection, Network Settings, Device Settings, and Hardware Details), TETRATUNE CONFIGURATION (containing Tetratune LUT Settings, Tetratune LUT Selection, and Tetratune Demo Settings), and QUICK ACTIONS (containing Locate Device, User View, Change Password, Logout, and a highlighted Reboot Device button). The main content area on the right displays device information in four sections: Video Information (Input Detected, Input Supported, Video Mode, Colour Space, Bit Depth), Colour Information (Colourimetry, Quantisation Range), HDR Information (EOTF, Display Primaries, White Point, MaxMDL, MinMDL, MaxCLL, MaxFALL), and Audio Information (Channels, Frequency).

Section	Parameter	Value
Video Information	Input Detected	✓
	Input Supported	✓
	Video Mode	3840x2160p24
	Colour Space	YCbCr 4:4:4
	Bit Depth	10
Colour Information	Colourimetry	ITU-R BT.2020 Y'CbCr
	Quantisation Range	Limited
HDR Information	EOTF	ST2084
	Display Primaries	(0.265, 0.69), (0.15, 0.06), (0.68, 0.0032)
	White Point	(0.3127, 0.329)
	MaxMDL	10000
	MinMDL	0.0001
	MaxCLL	10000
	MaxFALL	250
Audio Information	Channels	2
	Frequency	48000

CONTACT DETAILS

For Tetratune support please contact your supplier in the first instance who will assist with product related queries.



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