cymatic audio

uTrack24

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1. WHAT'S IN THE BOX

Your uTrack24 comes with the following components:

- uTrack24 unit
- AC/DC power adapter, incl. UL and US power cables
- 19" rack ears (removable)
- USB cable
- Printed Quick Start Guide

⚠️ *Note: It is recommended to update your uTrack24 to the latest firmware, available at the Cymatic website, to avail the latest features and capabilities we added to uTrack24. See the chapter Updating the firmware of uTrack24.*

2. SAFETY PRECAUTIONS

AC adapter

- Be sure to use only the supplied 15 V DC, 1500 mA AC adapter, which is equipped with a "center-positive" plug. The use of an adapter other than the specified type may damage the unit and could pose a safety hazard.
- Connect the AC adapter only to an AC outlet that supplies the rated voltage required by the adapter.
- When disconnecting the AC adapter from the AC outlet, always grasp the adapter itself and do not pull at the cable.
- During lightning or when not using the unit for an extended period, disconnect the AC adapter from the AC outlet.

Environment

To prevent the risk of fire, electric shock or malfunction, avoid using your uTrack24 in environments where it will be exposed to:

- Extreme temperatures
- Heat sources
- Excessive humidity or moisture
- Excessive dust or sand
- Excessive vibration or shock

Handling

- Never place objects filled with liquids on the uTrack24, as this can cause electric shock.
- Do not place an open flame source, such as a lighted candle, on the uTrack24 since this can cause fire.
- The uTrack24 is a precision instrument. Do not exert undue pressure on the keys and other controls. Also take care not to drop the unit, and do not subject it to shock or excessive pressure.
- Take care that no foreign objects (coins, pins etc.) or liquids can enter the unit.

Connecting cables and input and output jacks

Always turn off the power to the uTrack24 and all other equipment before connecting or disconnecting the power source. Make sure to disconnect all connection cables and the power cord before moving the uTrack24.

Alterations

Do not open the case of the uTrack24, or attempt to modify the product in any way. Doing so will void the warranty. There are no serviceable parts inside the unit.

Volume

Do not use the uTrack24 at a loud volume for a long time since this can cause hearing impairment.

3. USAGE PRECAUTIONS

Electrical interference

For safety considerations, the uTrack24 has been designed to provide maximum protection against the emission of electromagnetic radiation from inside the device, and protection from external interference. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves should not be placed near the uTrack24, as the possibility of interference cannot be ruled out entirely. With any type of digital control device, the uTrack24 included, electromagnetic interference can cause malfunctioning and can corrupt or destroy data. Care should be taken to minimize the risk of damage.

Cleaning

Use a soft, dry cloth to clean the uTrack24. If necessary, slightly moisten the cloth. Do not use abrasive cleanser, wax, or solvents (such as paint thinner or cleaning alcohol), since these may dull the finish or damage the surface.

4. LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information on Cymatic Audio's Limited Warranty, please see complete details online at www.cymaticaudio.com/warranty

CERTIFICATIONS

This product complies with the European Union Council Directives and Standards relating to Directive 2004/108/EC for Electromagnetic compatibility (EMC) and Low Voltage Directive 2006/95/EC

This product is compliant with the EU Directive 2011/65/EU for the Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment. No lead (Pb), cadmium (Cd), mercury (Hg), hexavalent chromium (Cr+6), PBB or PBDE is intentionally added to this device. Any traces of impurities of these substances contained in the parts are below the RoHS specified threshold levels.

This equipment has been tested and found to comply with the requirements of 47 CFR of PART 15 limit for radiation and conduction emission relating to FCC rules Part 15B: 2010.

A NOTE ABOUT DISPOSAL:
This product must be disposed in accordance with the local recycling regulations. The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems licensed for the recycling of electrical and electronic equipment (EEE).

5. INTRODUCTION

Congratulations on your purchase of the Cymatic Audio uTrack24! The uTrack24 is three powerful products in one:

- A 24-track audio recorder
- A 24-track digital audio file player
- A 24-input, 24-output computer audio interface

The uTrack24 records to and plays back from standard, off-the-shelf USB drives, while offering a large complement of professional features. The display and dedicated front-panel hardware controls make it an intuitive and easy to use device. Recording is never further away than a single push of the dedicated front panel "Record" button.

With the addition of the SYNC group feature, uTrack24 turns into a scalable recorder and player system, adding up to up to 96 audio channels, or offering redundant channels.

Network / uRemote Control:

A network port allows for powerful control using the free uRemote software and app. In addition, the network port enables synchronization of up to 4 units to create a 96-channel recorder/player with single point of control, either through the local controls of the master unit or through the uRemote app.

uRemote application is available for iOS, Android, OS X and Windows. For more details, please check the "User Manual" of uRemote at www.cymaticaudio.com/downloads.

uTool

uTool is a free application provided by Cymatic Audio that facilitates preparation and conversions of wave files between the USB drive and your PC. uTool is available for Windows and OSX.

The recordings done on uTrack24 are stored as multi-channel wave files in the USB drive. uTool allows the conversion of these files to mono wave files.

When using uTrack24 as a playback device, all the content, including songs and playlists has to be created and exported from uTool.

For more details, please check the "User Manual" of uTool at www.cymaticaudio.com/downloads.

6. FEATURE LIST

- Allows connection of 24 channels of balanced input/output through 25-pin D-Sub connectors
- Large, easy to use illuminated front panel transport buttons
- Detailed LCD screen, dedicated menu buttons, and rotary push control allow for fast and intuitive adjustment of various settings
- Up to 24-bit resolution, 96 kHz sample rate
- BNC Word Clock Input/Output allows integration into larger digital systems
- Synchronization of up to 4 units over Ethernet, to create a 96-channel system
- Ethernet connection allows comprehensive control of uTrack24 using uRemote software, available for iOS, Android, OS X and Windows
- Optional digital I/O cards offer 24x24 I/O in digital formats such as MADI, ADAT and AES67/AUDIOLAN
- Scalable recorder/player adding upto 96 Channels with the sync group feature.

24-Channel Multitrack Recorder

- Records directly to standard USB 2.0 and USB 3.0 drives, attached to convenient front-panel USB port
- 3-color input level metering per input channel, also works as 24-segment full scale meter
- Internal DSP mixer offers stereo monitor mix of all 24 inputs through front-panel headphone output and the two channel balanced output (main out) on the rear panel, with dedicated level controls. Adjust level, panning, mute, and solo for all 24-inputs while enjoying detailed 24-segment hardware input/output metering, all with no external mixer required!
- Pre-recording feature sets the uTrack24 to constantly buffer a minimum of 3 seconds of the incoming audio signal

24-Channel Multi-Track Player

- Play back 24 tracks of audio, perfect for virtual sound checks or expanding live performances with individual pre-recorded tracks
- Gapless playback of multitrack songs in playlist when the song parameters (channel count, sample rate and bit depth) are same between the songs. Gapless playback also happens in continuous and repeat all playback mode
- Pre-load feature loads a song into the buffers so that it can be started instantaneously on a button press. Pre-load feature is active in playlists and when pre-recording is switched off. uTrack24 also preloads the next song while the current song is in playback
- Playback Standard MIDI files synchronized with audio file playback
- Edit song order on the fly, during playback, directly from the front panel or with uRemote
- Playback start and stop via optional footswitch
- On the fly loop playback with mark-in/mark-out points allows for easy looping
- uTool software allows you to easily create custom audio playlists, with features like set pause times between songs or assign songs to be played back continuously

7. FRONT PANEL
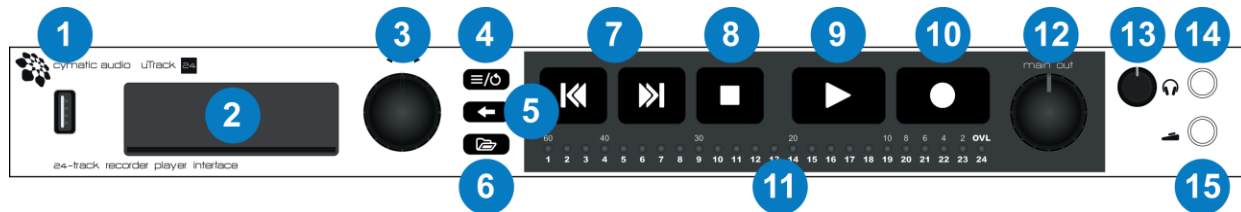
1. USB Host Port

This port allows connection of a standard, off-the-shelf USB drive. The uTrack24 records and plays back up to 24 tracks of audio to/from the connected USB drive. The uTrack24 supports USB drives up to 16TB.

2. Graphic Display

This LCD screen displays assorted useful information while recording and playing back audio, as well as when working with the settings menus.

3. Encoder Wheel

Rotate the encoder wheel to adjust various settings; it also contains a "push" function, allowing it to work as button.

4. MENU/LOOP Button

Press the MENU/LOOP button to bring up the uTrack24 settings menus, allowing various adjustments to the products' settings. In playback mode, this button helps to setup the playback loop.

5. BACK Button

Press the BACK button to navigate backwards through the menu tree until reaching the home screen.

6. BROWSE Button

Switch the BROWSER screen on and off. In the BROWSER screen you navigate the files on the attached USB drive and select them for playback. Long press brings you instantly to the top directory level (root).

7. Skip Back/Forward Buttons

During playback, press the skip back/skip forward buttons to navigate among saved markers in an audio take (recording). When playing back a playlist, press the buttons to navigate among the different songs in the playlist. When recording, press these buttons to add a new marker at the current timeline location.

8. STOP Button

Press to stop a current recording or playback. Long press in any state will send out a MIDI panic reset.

9. PLAY Button

Press the PLAY button to begin playback of the currently loaded audio project.
When recording, press the PLAY button to add a new marker at the current timeline location.

10. RECORD Button

Press the RECORD button to begin a new recording without losing a sample. The uTrack24 is always ready to start a new recording as soon as the RECORD button is pressed.

⚠️ *Note: The transport buttons are lit whenever they are active. In SYNC mode, most buttons on slave units are not active and hence not lit up.*
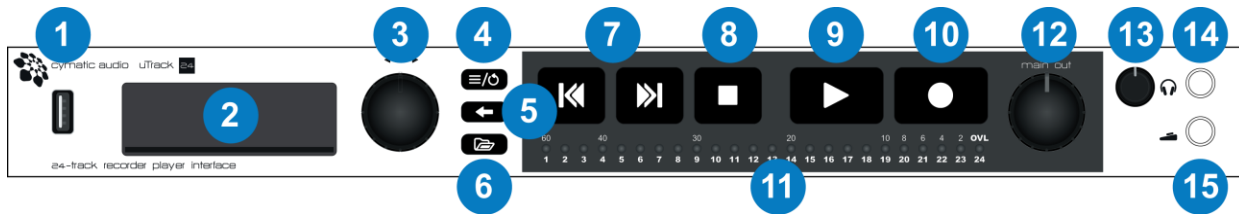
11. Meters

The 24 separate LED meters display the signal strength for incoming signals during recording and display outgoing signals during playback. The meter LEDs work in two different ways:

- When recording or playing back audio, the 24 separate LEDs represent the input/output levels of channels 1-24. Each channel's LED illuminates in three separate colors, acting as a 3-segment meter:
  - o Green: -40dB
  - o Yellow: -10dB
  - o Red: Overload

- When working with the monitor mixer for recording or playback, the meter bridge operates as a single, 24-segment input/output meter for the currently selected channel. Click the rotary button to open the monitor mixer settings.

12. Main Output Volume Control

Rotate to adjust the listening level of the rear panel's main outputs, which carry the stereo signal of the monitor mixer (standalone recorder/player mode) or outputs 1-2 of your DAW software (Computer Audio Interface).

13. Headphone Volume Control

Rotate to adjust the listening volume level of the front panel headphone output, which offers the same signal path as the main outputs.
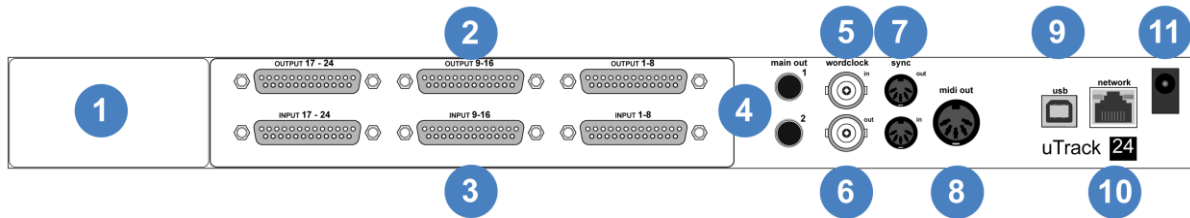
14. Headphone Connector

Connect a pair of headphones to listen to the onboard monitor mix or channels 1-2 of your DAW software.

15. Footswitch Connector

Connect a standard two-position footswitch to this connector for hands-free operation of various functions. For specifics, see "footswitch" in the menus section of this document.

8. REAR PANEL

1. Option Card Slot

The uTrack24 can be fitted with an optional 24-input, 24-output digital option card that provides an alternate audio I/O path from the onboard analog I/O. The available digital I/O cards incluce MADI, ADAT and AudioLAN card..

This option brings a powerful level of flexibility to the uTrack24, allowing you to:

- Expand the unit with 24 channels of digital I/O, and then use that I/O with your own A/D and D/A converters of choice.
- Add a digital I/O format to the uTrack24 that allows 24x24 channels of networked audio, allowing the unit to conveniently integrate into large setups with a single cable.
- Allows the use of external clock from the Digital I/O card to be used in the uTrack24.

2. Analog Outputs 1-24

These 24 outputs carry 24 channels of audio either from:

- A multi-track audio project from a USB drive connected to the front panel USB port
- A multitrack DAW session running on a computer connected to the rear panel USB port

3. Analog Inputs 1-24

Connect the 24 separate audio signals that you wish to record to these inputs; the 24 separate audio signals can then be recorded to either:

- A USB drive connected to the front panel USB port
- DAW software running on a computer connected to the rear panel USB port

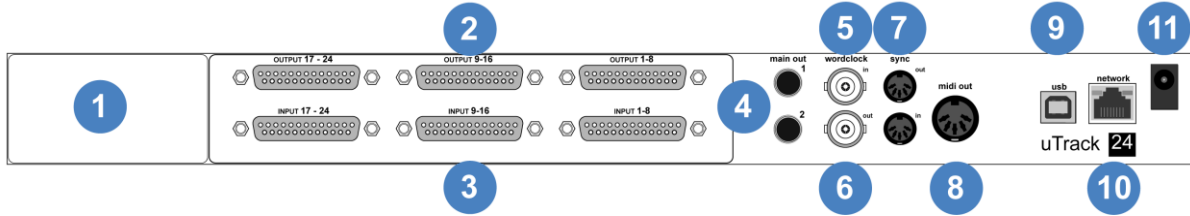Both the analog inputs and outputs operate at balanced line level, +20dB, and are configured as three separate, 8-channel, 25-pin D-subminiature connectors. The D-sub connectors are wired to the "Tascam Standard" as shown below.

H = HOT • C = COLD • G = GROUND
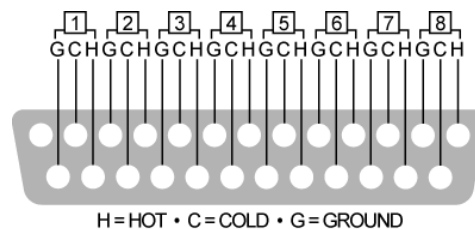
4.   Main Outputs

The balanced stereo main outputs on ¼" tip-ring-sleeve (TRS) jacks can be sourced from either:

- The stereo output of the onboard 24-channel monitor mixer. In this scenario, the main outputs allow you to monitor a stereo mix of the 24 input or output channels.
- Output channels 1-2 of your favorite DAW software. In this scenario, the main outputs allow you to monitor a stereo mix of your DAW session, when using the uTrack24 as a computer audio interface in a recording studio.

5.   Word Clock Input

The uTrack24 can be "slaved" to an external word clock signal by connecting it to the BNC word clock input. This allows the uTrack24 to be integrated into a larger complement of digital audio equipment, where the clock signals of all connected equipment need to be synchronized.

Adjust the uTrack24's "Word Clock" menu to configure it to slave to an incoming external clock, as opposed to running on its own internal clock. The settings bar at the top of the LCD screen will indicate whether the uTrack24 is using an internal or external clock signal.

6.   Word Clock Output

This connector outputs a standard digital word clock signal, running at the sample rate that the uTrack24 is currently set to. The word clock output is useful when you want to use the uTrack24 as a "clock master" and wish to slave other digital equipment to its internal clock signal. It could also be used to loop the incoming word clock signal to another device.

7.   Synchronization Connectors

These synchronization connectors are non-functional with the present firmware. Use the Ethernet-based SYNC feature for syncing up to 4 uTrack24 units.

8.   MIDI Output Connector

The MIDI output connector outputs MIDI data from a SMF (Standard MIDI File) that is exported with a song using uTool..

This allows the uTrack24 to output MIDI data to a software synthesizer, MIDI controlled lighting system, effects switching system, etc., synchronized and in time with audio data that is played out of the uTrack24's audio outputs.

9.   USB Connector

The rear panel USB connector can be connected to the USB port of a Windows or OS X computer, or an iPad camera connection accessory. The uTrack24 acts as a 24-input, 24-output computer audio interface in this case.

The 24 separate outputs allow for great flexibility in routing outputs from a DAW session, such as sending many separate headphone mixes to an external headphone amplifier, or sending 24 separate channels of audio to an external analog mixer, for "mixing out of the box".
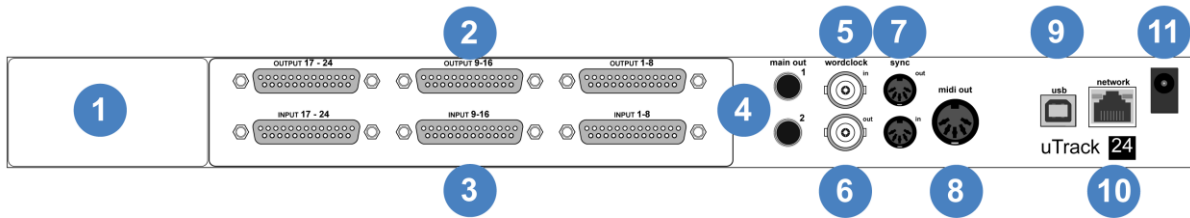
10. Network Connector

This RJ45 connector allows connection of the uTrack24 to a standard Ethernet network. The network connection can be used for two different functions:

- Updating the uTrack24 firmware
- Controlling the uTrack24 from the uRemote software
- Synchronizing up to 4 uTrack24 units and control them through uRemote as one large multi-track device

11. Power Connector

Connect the included external power supply to this connector. Do not connect any other power supply except the one that was supplied with your uTrack24.

⚠ *Note: that the uTrack24 does not contain an "on/off" power switch; this is by design, as it reduces the possibility of accidentally shutting down the unit during a critical recording from pressing a power switch.*
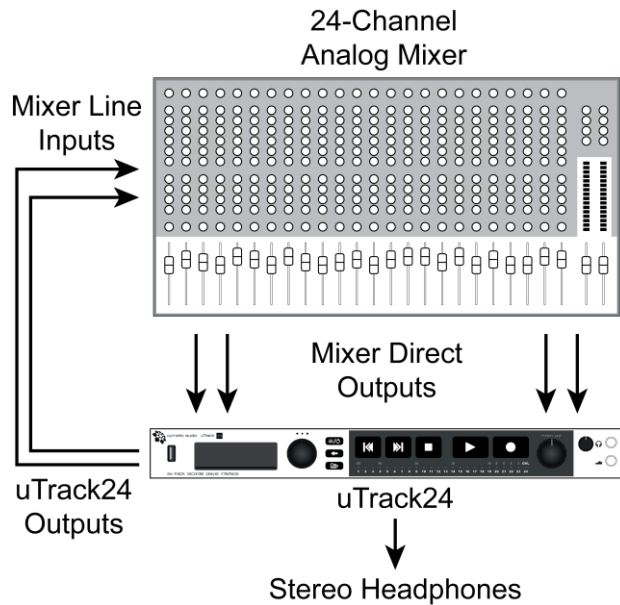
⚠ *Note: your uTrack24 is always powered on when connected to the power supply.*

9.   USE CASES

9.1.   MIXER FOR LIVE CONCERT RECORDING

The uTrack24 is the perfect tool for capturing up to 24 individual tracks of a live concert, which can then be imported into your DAW software of choice. The physical connections work as follows:

- Connect 24 balanced, direct outs of an analog mixer to the analog inputs of the uTrack24
- Connect a pair of headphones to the uTrack24's front panel phones jack, or a set of monitors to the rear panel main output; you can monitor and adjust an onboard stereo mix of the 24-track recording.
- At the same time, the uTrack24 allows you to play back 24 channels of multi-track audio back into the live sound console, perfect for performing a "virtual sound check" using recordings of previous performances, or for expanding live performers with individual pre-recorded tracks.
- Connect the analog outputs of the uTrack24 to the line inputs of the mixer. The FOH operator can switch to the mixer channel's line inputs to monitor the uTrack24's 24 channels of playback.

9.2.   RECORDING SPLIT/OUTBOARD MIC PREAMPS

In some instances, you may wish to use the uTrack24 in a higher end remote recording setup, with a dedicated recording split of the stage snake (as opposed to the mixer's direct outputs).

In this case, the connections would work as follows:
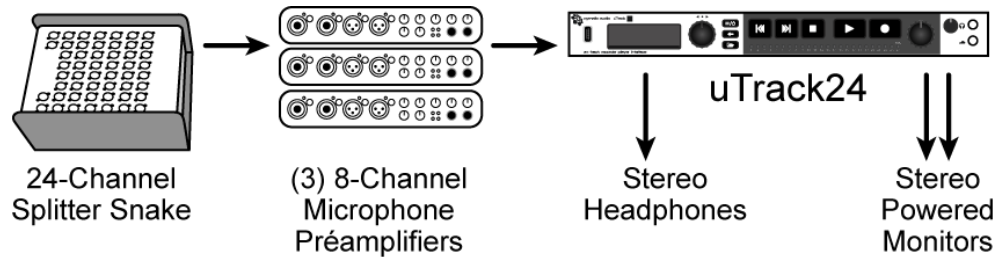
- The stage microphone signals are connected to a microphone splitter containing a dedicated split of recorder outputs
- Connect the recorder outputs (mic level signals) to the inputs of the microphone preamplifiers
- Connect the line level outputs of the microphone preamps to the analog inputs of the uTrack24
- Connect a pair of headphones to the front panel phones jack, to monitor a stereo mix of the uTrack24's multi-track recording
- If you are working in an acoustically separated space from the musicians themselves, you can also connect a pair of powered monitors to the uTrack24's rear panel main outputs. This will allow you to monitor the onboard stereo mix on a pair of powered monitor speakers and also adjust the monitoring volume using the front panel volume control.

10.   Preparing USB drive

The uTrack24 records and playbacks using a USB drive with "Fat32" format.

⚠ *Note: In order to ensure that the USB drive is optimally formatted, it advised that you format the drive using the uTrack24's "Format USB Drive" menu function. uTrack24 uses a cluster size of 64KB which gives the best performance for reading and writing data.*

⚠ *Note: All existing data and partitions on the drive will be lost when formatting.*

To format the drive, press MENU, scroll to "UTILITIES", then press the encoder to select "Format USB Drive"

```
Utilities Menu
   Formatting Drive
  [▮▮▮▮▮▮▮▮    ]
```

```
Utilities Menu
 Format Drive Succeeded
```
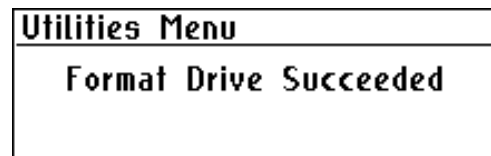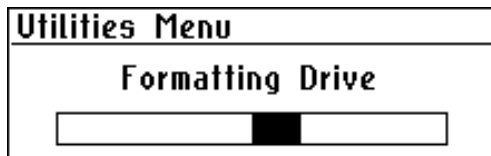
10.1. USB Hard Drives vs. USB Flash Drives

When recording audio with the uTrack24 and a connected USB drive, it is important to understand the difference between the two key types of USB drives available in the marketplace

1.   USB Hard Drive

A USB hard drive is a traditional "moving parts" hard drive that records its data on spinning platters. This is the recommended type of USB drive to use with the uTrack24, as its data read/ write speeds are the most reliable and consistent

2.   USB Flash Drive

A USB Flash drive is a USB drive that uses flash memory and contains no moving parts. Thumb drives and Solid State Drives(SSD) are flash drives.

These drives offer very fast data read/write speeds, but they are subject to occasional pauses in data writing which is not practical for a device like the uTrack24 that needs to constantly write a data stream to the drive in order to avoid dropouts.

To avoid recordings without dropouts, follows these steps:

- Use a USB hard drive
- Format the attached drive using the uTrack24 format utility only.
- Perform a test recording using your planned USB hard drive, making sure the test recording is as long, or longer than the event you plan to record. Check that you do not have any dropouts in the recordings.

⚠ *Note: When using your uTrack24 solely for playback, thumb drives/SSD can be used. To ensure smooth playback, make sure to test the complete playback of your material before the real performance.*

11.   Recording

The uTrack24 uses the following default recording settings:

- 24 tracks
- 24-bit
- 48 kHz

To change any of the above settings, use the Recording menu from the Settings menu.
See section "Recording Menu" for more details.

1.   Starting a Recording

To begin a recording, simply press the front panel RECORD button. The display will switch to the RECORD screen. For the first two seconds, the number of active recording channels is displayed on the screen and then it switches to showing the recording name and time.

2.   Adding Markers

During recording the uTrack24 allows you to add markers to the take. Markers are locational references that help you remember different spots in the recording (song 1, song 2, verse, chorus, etc.). Press the PLAY or SKIP buttons during recording to add a new marker. Up to 99 markers are allowed per take.

If supported by your DAW, these markers will be visible in the DAW session after you have imported your files. The markers can also be used to split your recordings at the marker points when using the uTool to copy the recording from your USB device to your computer.

3.   Gapless Recording

While recording press the RECORD button to create a new take without losing a single audio sample. The recording parameters are the same as for the previous take. Tracks created in this way will be played back gaplessly. A gapless recording switch is only allowed after 1 minute of the current recording.

11.1. Recording Signal Flow

Inputs for recording can be selected in blocks of 8 channels when a digital card is present. The outputs are muted when in recording mode.
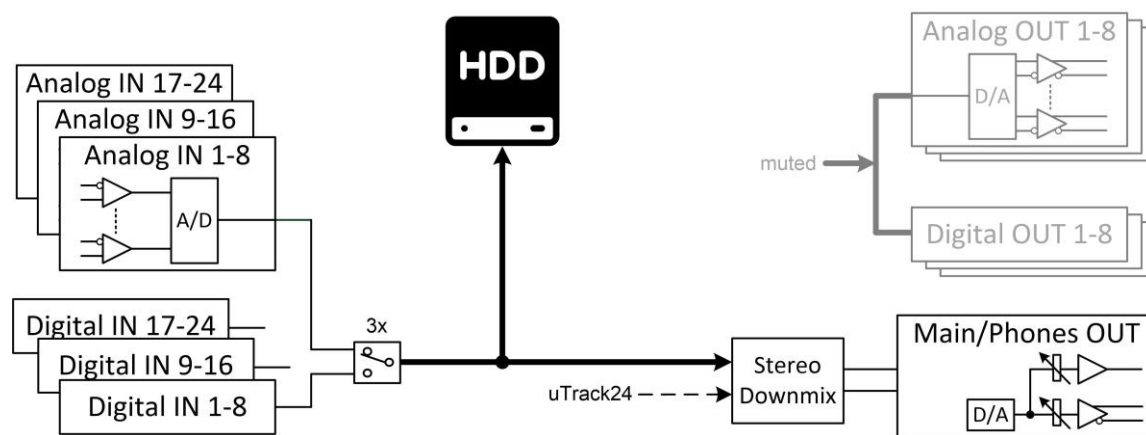
12. Playback

12.1. File playback modes

When playing back audio, the uTrack24 offers different playback "modes". The uTrack24 switches to a given playback mode depending on what type of audio folder is loaded for playback. The different modes are:

1.   Multitrack Mode

When a USB drive is attached to the uTrack24, the audio content in the folder labeled "MultiTrack" is automatically loaded on the screen. uTool places all multitrack songs inside the "MultiTrack" folder. All recordings done on the uTrack24 are also saved in the "MultiTrack" folder.

#### 2.   Stereo Mode (not available in SYNC mode)

Stereo songs can be placed in "Music" folder or anywhere outside the "MultiTrack" folder. The stereo songs may be used for walk-in music, break music, walk-out music, etc. The uTrack24 switches to stereo mode any time you select a stereo song from the browser.

3.   Playlist Mode

A set of songs can be placed in a specific order inside a playlist file. Each song can be started with different delay options. A playlist can be created using uTool application. When a playlist is loaded, the display shows the playlist name along with the active song and the next song in the list.

### 12.2. Switching between different playback modes:

In the browser, three different item types are available for selection: multitrack songs, stereo songs and playlists.
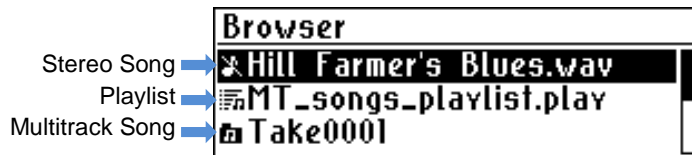
To switch between these modes:

- Press the BROWSE button on the front panel to switch the display to the BROWSER screen.
- Rotate the encoder to highlight a folder then press the encoder button to browse into the folder. You will see a list of all of the different songs available in the folder.
- Rotate the encoder to highlight a desired song or playlist, then press the encoder button select the song or playlist to be loaded for playback.
- Pressing the BACK button takes you one folder up. Long pressing the BACK button takes you to the root folder of the attached drive.

Following screens appear when switching between stereo mode and multitrack mode:
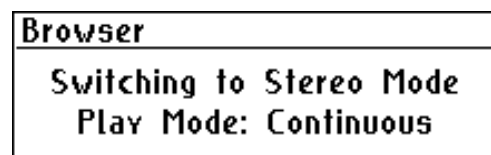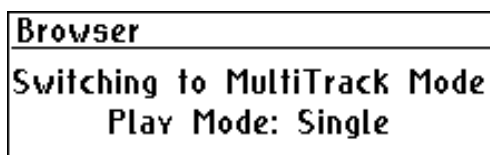
The songs available in the currently loaded folder are displayed on the main screen. To navigate among the different songs in the folder, use the rotary encoder or skip back and skip forward buttons.

12.3. Playing Back Audio

1.   Playing a Song

To playback a desired song, make sure that the song is present on the main screen. Press the PLAY button to start playing the song.

2.   Changing Playback Head Position (not available in SYNC mode)

uTrack24 allows you to start playing back a song from another position. To do so, while a playback is ongoing, move the rotary encoder to see a playback position cursor. Move the cursor to the desired location in the song and press the encoder button to start playing back from the new location.

3.   Playback Loop (not available in SYNC mode)

uTrack24 allows you to loop between two points within a song. To setup a loop do the following when playback is ongoing:

- Press Menu/Loop Button to start the loop point overlay.
- Rotate the encoder to the desired mark-in position for the loop. Click the encoder to select the mark-in position.
- Rotate the encoder again to the desired mark-out position for the loop. Click the encoder to select the mark-out position. As soon as the mark-out position is chosen, the loop starts to playback between the two points.
- To cancel the playback loop press the BACK button

⚠ *Note: Pressing the skip backward button while in a loop will cause the playback to start from the loop mark-in point. When markers are present, the skip buttons jump to the nearest available marker.*

4.   Autoplay a Playlist on Startup

The uTrack24 has the ability to automatically playback a playlist upon powering up.

To set a playlist for automatic playback, follow these steps:

- Within uTool, enable the "Auto" option for the playlist that should be played automatically on startup
- In the uTrack24 Playback settings, set the "Autoplay on boot" option to ON

```
Playback Menu        ▷
Folder Mode      Single
Autoplay on boot     On
Output Atten.    0  dB
```
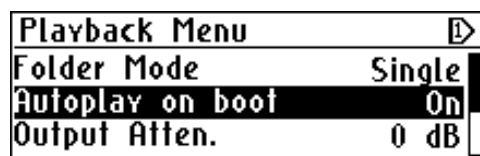
When exported, the playlist selected as "Auto" will be named as 'autoplay.play' and placed in the #PLAYLIST folder. There can only be one autoplay playlist per drive. This playlist will automatically be loaded and begin playing back, whenever the uTrack24 is powered up. If the USB drive has an autoplay playlist in both the "Music" folder (stereo) and the "MultiTrack" folder, the multitrack playlist is the one that is loaded on startup.

⚠ *Note: In SYNC mode, make sure all slaves are powered up BEFORE the master device is switched on. This procedure will ensure synchronous playback upon startup.*

5. Midi File Playback

The uTrack24 contains a standard 5-pin MIDI output connector on its rear panel. This connector can be used to play back MIDI data from a Standard MIDI File(SMF).

The midi file can be placed in uTrack24 multitrack audio project using uTool software. For complete details on the operation, please refer to the latest version of the uTool user's manual. The playback of the midi file is synchronized with the audio files that are played back from the same project.

An offset for the midi file playback can be applied from the playback settings menu.

⚠️ *Note: When stopping or pausing a song, all notes off command is sent out on the midi port*

⚠️ *Note: Long pressing the STOP button sends out a midi panic reset. In panic reset, all notes off commands for each channel along with note off for each instrument of each channel is sent out.*

12.4. Playback Signal Flow

A song is played back on both the Analog outputs and the Digital outputs (if a digital card is connected) simultaneously. A stereo down mix for multitrack songs is available on the main outs and the headphone output. The mix down is done using the mixer configured when creating the song in uTool.

The analog and digital output signals can be attenuated using the faders in the mixer. Choose the option "Post faders" in the "Multitrack Mode Option" in the "Playback" settings menu to attenuate the outputs using the mixer fader.
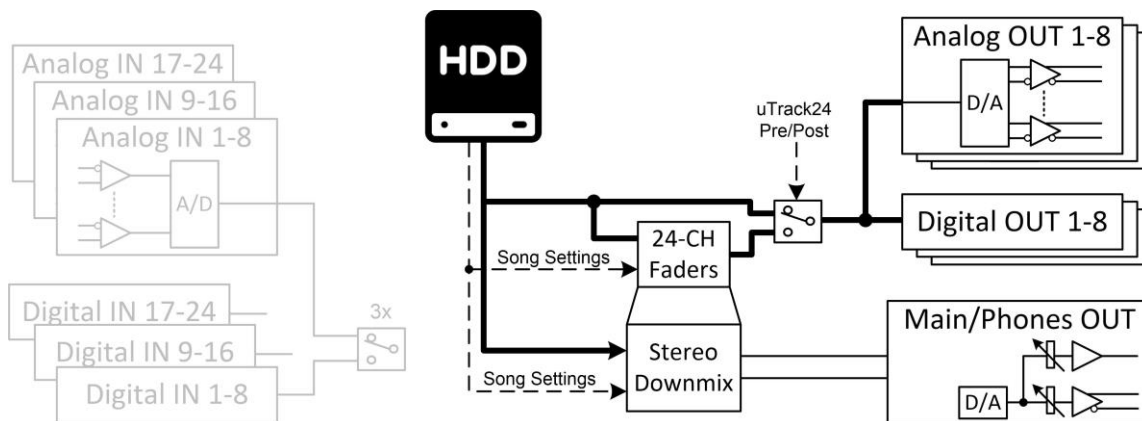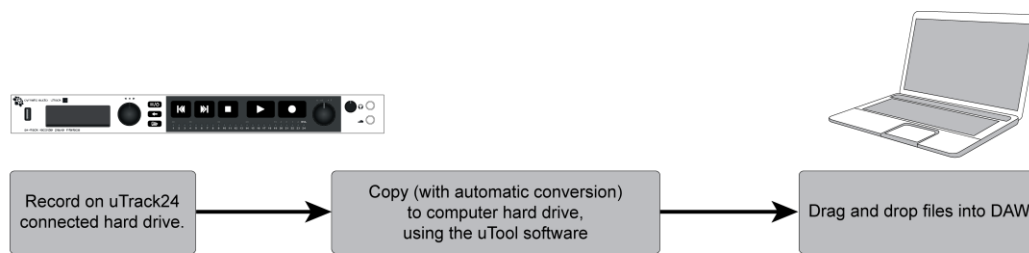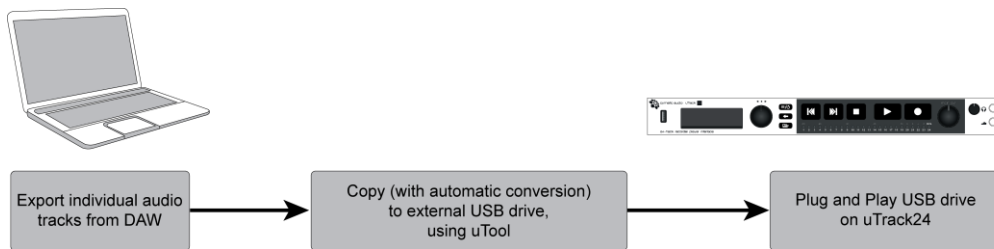
13.   FILE FORMATS

The uTrack24 is specifically designed for continuous capturing of audio over longer periods of time. When recording, the uTrack24 stores data from multiple input channels into a single multichannel wave file. When the file size of this multichannel wave file reaches 2GB, recording continues into a new multichannel wave file (chunk) without losing a sample of the recording. A recording "take" continues until 12 hours before starting a new take automatically. This allows you to record without any time limit.

uTool allows easy conversion between mono wave files and multichannel wave file songs. Recordings can be imported into the computer and songs and playlists can be exported to a drive using uTool.

A typical recording workflow looks as shown below:

| Record on uTrack24 connected hard drive. | → | Copy (with automatic conversion) to computer hard drive, using the uTool software | → | Drag and drop files into DAW |

The workflow for playback looks as shown below:

| Export individual audio tracks from DAW | → | Copy (with automatic conversion) to external USB drive, using uTool | → | Plug and Play USB drive on uTrack24 |

When playing back a take, the uTrack24 performs seamless transitions from the end of one "chunk" of multi-channel audio to the beginning of the next one. Multiple chunks inside a take are played back as if they were one long take.

14. SETTINGS BAR

The uTrack24 contains a "settings bar" at the top of the screen that is always present on all recording and playback screens. It shows important settings, at a glance.

1. Home Page Mode

The Mode indicator displays current state of the uTrack24. The four possible modes are:

- STOP: active when the unit is idle. It is possible to enter any of the other modes from the stop mode.
- RECORD: active when the uTrack24 is recording audio; it displays various parameters related to the recording.
- PLAY: active when the uTrack24 is playing back audio. It displays various parameters related to playback of the currently playing song.
- MIX: The MIX page displays, and allows control of, the settings for the built-in 24-channel internal mixer. For more information, see the "MIX Page" section.

2. Track Count

In STOP and RECORD mode, it displays the number of tracks (channels) the uTrack24 has been configured to record. In PLAY mode it displays the number of tracks present in the playing song.

3. Sample rate

In STOP and RECORD mode, displays the sample rate that the uTrack24 will record at. In PLAY mode, it displays the sample rate of the playing back song. Available sample rates include 44.1, 48, 88.2, and 96 kHz.

4. Bit-Depth

In STOP and RECORD mode, displays the resolution (bit-depth) that the uTrack24 will record at. In PLAY mode, it displays the bit depth of the playing back song. Available bit depths include 16-bit and 24-bit.

5. Markers

In STOP and PLAY mode, displays the number of markers present in the currently active song.

6. Clock Source

Displays the digital clock source that the uTrack24 is using. Choices include internal (Int), Word Clock (Wck), Digital I/O(Ext) and PTP(Ext).
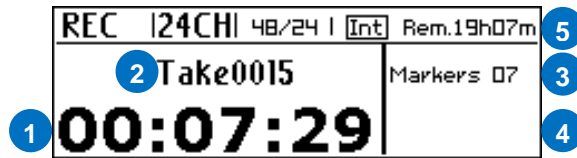
7. Folder Mode / Playlist

Displays the active folder playback mode or a playlist icon:

- **Single (⮈) :**   Only one song is played back and then the device stops.
- **Continuous (⮊⮊) :** All songs are played back until the end of the folder
- **Repeat One (⮌):** The same song is repeatedly played back.
- **Repeat All (⮌⮌):** All songs are played back until the end of the folder and playback starts again from first song of the folder.
- **Shuffle (⤭):** All of the songs inside a folder are shuffled and played back one after the other.
- **Playlist (≣):** When a playlist is loaded, the icon changes to reflect the playlist

15. RECORD PAGE

The RECORD page is shown any time the uTrack24 is in recording mode; it displays important aspects of the recording process and allows you to monitor your recording.

```
REC  |24CH| 48/24 |  Int | Rem.19h07m  (5)
    (2) Take0015            Markers 07   (3)
(1) 00:07:29                             (4)
```

1. Take Name and Number

Displays the name and number of the current ongoing recording. The name of the recording is in the format "TakeNNNN", where NNNN is the number of the recording.

2. Elapsed Time Counter

Displays the elapsed time of the ongoing recording.

3. Markers Display

Displays the number markers created for the ongoing recording. Markers can be created by pressing the PLAY button during an ongoing recording.

4. Dropouts Display (If Applicable)

Displays the number of dropouts in a recording, if any have occurred.

⚠️ *Note: If the attached USB drive's data transfer speed is too slow to keep up with the required data flow, dropouts may occur. The dropouts display allows you to have a concrete verification if this has occurred. If dropouts occur, a log file with details of the dropouts and their time of occurrence will be written in the song folder.*

5. Remaining time

Displays the amount of available recording time remaining on the attached USB drive. This figure will adjust dynamically as you change the track count, bit-depth and sample rate you plan to use.

16.   MIX PAGE

The uTrack24 contains a built-in 24 channel stereo monitor mixer, allowing you to monitor a stereo mix of the incoming or outgoing 24 channels of audio. The stereo mix can be monitored from both the front panel headphone output as well as the rear panel's main outputs; both outputs have their own dedicated volume level controls. The mixer page also allows setting up of a Monitor boost of up to +12dB.

During Playback or when song is PreLoaded

- The mixer parameters are taken from the settings file present in the song project.
- For multitrack songs, the mixer parameters affect the outputs if outputs are chosen to be post-fader in playback settings.

During Recording or PreRecording:

- The mixer is active only for the currently active recording channels.
- The adjustments made affect the monitor mix only; they have no effect on the actual recording taking place.
- When playback stops, the previous mixer settings are loaded back.

To bring up the monitor mixer and adjust the parameters for each channel:

- Press the front panel rotary encoder button. The display will switch to the "MIX" screen as shown below
- Once in the "MIX" screen, press the rotary encoder button to move between the various parameters.
- When on a parameter it will be highlighted and can by adjusted by rotating the encoder.
- To exit the monitor mixer screen, press the BACK button

The MIX screen contains the following five parameters you can adjust:
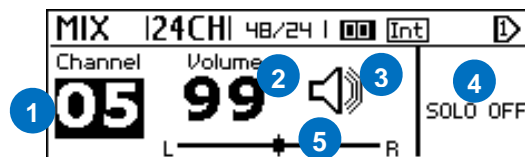
1.   Channel Number
Represents the channel number for which the volume/mute/ solo, and panning can be adjusted. When in the MIX page, the front panel metering LEDs act as a single 24-segment level meter for the currently selected channel.

2.   Channel Volume
Adjusts the relative listening volume of the currently selected channel in the stereo mix.

3.   Mute On/Off
Mutes the currently selected channel in the stereo mix.

4.   Solo On/Off
Solos the selected channel. While in the MIX screen, press and hold the rotary encoder button to instantly solo the currently selected channel.

⚠️ *Note: that soloing of a selected channel is temporary; it only lasts as long as the channel is selected. When a different channel is selected, the solo status of the previous channel is cleared.*

5.   Pan Control

Adjusts the selected channel's pan position in the stereo mix.

16.1. Monitor Boost:

It is possible to boost the monitor volume by upto +12dB from the MIX page. Rotate the encoder beyond the last available channel to reach the monitor boost setting. The monitor boost can be adjusted from 0dB to +12d
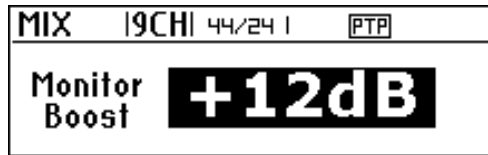

16.2. Saving Mixer Parameters:

16.2.1. In Recording

The device has one monitor mixer setting for recording. During recording or pre-recording, this mixer setting is loaded. When the recorder mixer settings are changed, they are saved temporarily on the device. The change is valid only until the next restart of the device. To save the changed mixer settings on the device, use the "Save Settings" option in the Settings menu. The saved mixer settings are automatically loaded on the device on subsequent restarts.

16.2.2. In Playback

Each of the songs on the USB drive has a separate mixer setting for playback. The mixer for a song can be set when creating song in uTool. The recording mixer is set to the song when a recording is complete.
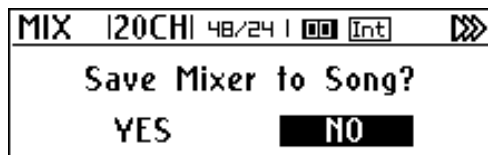
When playing back a song or when it is preloaded, the song's mixer setting is loaded. The mixer parameters can be changed if needed. To save the changed mixer parameters to the song, click on the Menu button. If the mixer is changed and you press the back button , you will be prompted to save the mixer settings.

17. PLAY PAGE

The play screen is shown when the uTrack24 is playing back a song or when the transport is stopped. When the transport is stopped, you may use the rotary encoder or the skip forward/skip back buttons to change the songs on the screen.
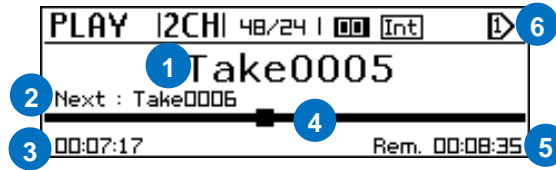
1. Current Song
Displays the current song name in the folder that is loaded.

2. Next Song
Displays the next song name in the folder that is loaded.

3. Elapsed Time
Displays the elapsed time of the current song.

4. Playback Location (not available in SYNC mode)
This horizontal black stripe represents the timeline of the current song, while the black square represents the playback location of the current song.

Rotate the encoder to move the play head to a different position on the timeline, then press the encoder to start playing back the take at the new time location you have moved the play head to.

5. Time Remaining
Displays the remaining time of the take that is currently playing back.

6. Folder mode
Displays the folder playback mode (single, repeat one, continuous, repeat all and shuffle)

PLAYLIST SCREEN

The playlist screen is shown any time the uTrack24 is currently playing back a "playlist" of song: a pre-configured list of songs that automatically play one after the other. Playlists can be configured using uTool software.

The PLAYLIST screen displays various parameters that are unique to the playlist workflow:
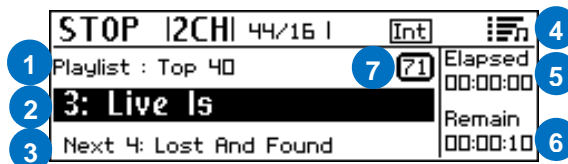
1. Playlist Name
Displays the title of the playlist that has been loaded for playing back.

2. Current Song

Displays the name of the currently active song in playlist.

3. Next Song

Displays the name of the next song to be played back in the playlist

4. Playback Mode

Indicates that the device is in Playlist Mode.

5. Elapsed Time

Displays the amount of time that the current song has been playing for

6. Remaining Time

Displays the amount of time left in the current song.

7. Pause Mode

Displays the mode which is used to transition to the next song. The following icons are possible:

- Wait for key press: he device waits for the user to press the play button or footswitch before the next song is started
- Wait period: the device waits the indicated number of seconds before starting the next song
- No icon: there is no pause between the previous and the next song

18.   uTrack24 SETTINGS MENUS

The uTrack24 contains settings menu that allow you to adjust various settings.

```
Settings
Clock Source            Internal
FootSwitch                  Play
Recording
```

To adjust a menu setting:

- While the transport is stopped, press the front panel MENU/LOOP button; the display will switch to the Settings Menu page and show a scrollable list of settings

- Rotate the encoder to highlight the specific set of settings menus you wish to adjust; the menu categories include:
    - o   Clock Source
    - o   Foot Switch
    - o   Recording
    - o   Playback
    - o   Inputs (available only if digital module is installed)
    - o   MADI (available only if MADI module is installed)
    - o   Utilities
    - o   Load Settings
    - o   Save Settings

- Rotate the encoder to highlight the desired menu, and push the encoder button to enter the menu

- Rotate the encoder to navigate to the specific parameter you wish to adjust and press the encoder button to highlight it for adjustment. The parameter highlight will flash on/off to show it is ready for adjustment.

- Rotate the encoder to adjust the highlighted parameter, then push the encoder to save the new setting

- Press the BACK button to navigate back one or more menu levels.

18.1. Clock Source Menu

This menu allows you to choose the clock source that the uTrack24 will utilize, offering choices appropriate for when it is used on its own vs. when it is used as part of a larger system of digital audio devices.

Internal (Int): The uTrack24 will use its own internal sample clock.

Wordclock (Wck): The uTrack24 will slave to an external word clock signal that is connected to the "word clock in" BNC connector on the rear panel.

Digital I/O (Ext): The uTrack24 will slave to the clock signal of the installed digital I/O card (MADI / ADAT / AudioLan).

PTP (PTP): The uTrack24 will utilize the precision time protocol clock which is also transferred over the network.

⚠ *Note: If there is no valid clock, the label in will flash on and off, to reflect that the clock signal is missing and no recording or playback will be allowed to take place.*

⚠ *Note: When set to External clock source, the uTrack24 does not automatically change its recording sample rate to the rate of the incoming external clock. You must choose the proper sample rate that matches with the external clock you have connected.*

18.2. Footswitch Menu

This menu allows you to configure what specific function occurs when you step on a footswitch attached to the front panel footswitch connector. The settings allowed are

**Play:** Pressing the footswitch mimics the front panel PLAY button and begins playback.

Play-Pause: Pressing the footswitch toggles between Play and Pause of a song.

Play-Stop: Pressing the footswitch toggles between Play and Stop.

Record: Pressing the footswitch mimics the front panel RECORD button and begins a new recording.

18.3. Device Mode

The uTrack24 can be used as a recorder player or as a playback only device. Following device mode options are available:
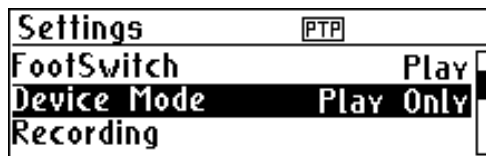

Rec & Play: This mode allows the users to the uTrack24 as both a recording as well as a playback device.

Play Only: Set this mode if you intend to use the uTrack24 only for playback purpose. In this mode, song preloading is done automatically and the Recording button is permanently switched off.

18.4. Recording Menu

This menu contains various settings that determine the parameters of the uTrack24's recordings.
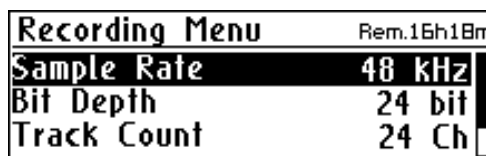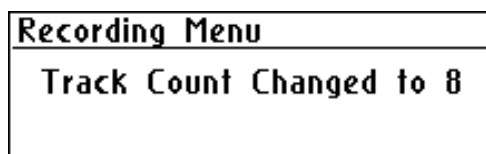

Sample Rate: Selects the sample rate of the recording, when the uTrack24 is set to its internal clock. Choices include:

- 44.1kHz
- 48 kHz
- 88.2kHz
- 96kHz

⚠️ *Note: When using sample rates of 88.2 kHz or 96 kHz, the uTrack24 is limited to recording a maximum of 8 tracks.. If one these sample rates is selected the track count automatically switches to 8 it was previously more than 8.*

Bit Depth: sets the bit depth of the recording. Choices include: 16-bit and 24-bit.

Track Count: Determines how many tracks will be recorded in a recording. Choices include stereo (2 track), 4, 8, 12, 16, 20, and 24 tracks.

Pre-Recording: When the pre-recording option is turned ON, the uTrack24 constantly buffers at least 3 seconds or more of incoming audio signal into its internal buffers. It will help you capture all of the first song even if you pressed the RECORD button a few seconds too late.

⚠️ *Note: When Pre-Recording is switched OFF, the feature Pre-loading is activated. In this case the uTrack24 pre-loads the active song into its buffers so that it can be started instantaneously on pressing the PLAY button. Pre-load feature is always active in playlist mode.*

⚠️ *Note: In SYNC mode the menu entry "Prepare Rec" is available. When enabled, all devices in the group are ready to start a recording at the click of a button.*

18.5. Playback Menu

This menu contains various settings that determine the playback parameters of the uTrack24 songs.

```
Playback Menu          ▷
Folder Mode       Single
Autoplay on boot      On
Output Atten.     0  dB
```
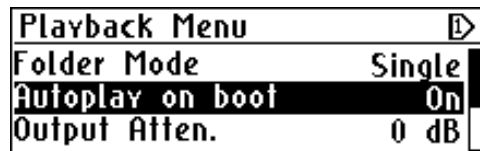
Folder Mode: determines how the songs in the currently loaded folder are played back. This menu option is explained in detail in the Settings Bar section.

AutoPlay on Boot: Setting this option to ON starts playing back a pre-determined playlist automatically on startup. The feature is explained in detail in the section Playing Back Audio.

Output Attenuation: The uTrack24's analog outputs are configured at +20dBu, allowing them to feed the balanced line inputs of a wide variety of professional audio equipment. However, all 24 channels of analog output can be attenuated (reduced in volume) by up to 30dB, in 1dB increments.

Multitrack Mode Options: This menu allows changing options for multitrack song playback:

```
Multitrack Mode Options
Midi Offset       0 msec
Ouputs       Post faders
```
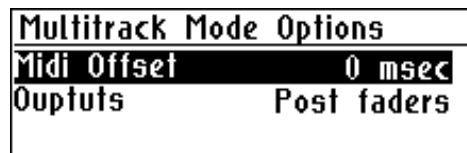
- **Midi Offset:** When playing back a midi file with an audio song, the start offset of the midi can be changed. The offset can be between -1000msecs to +1000msecs with a granularity of 1 msec.
- **Outputs:** The audio outputs can be chosen to be pre fader or post fader. When post fader is chosen, the fader values in the mixer also impact the output levels of the signal. When pre fader is chosen, the outputs are played out at the default levels.

Stereo Mode Options: This menu allows changing options for stereo song playback:

```
Stereo Mode Options
88/96K Output          Ch 1-2
44/48K Output          Ch 1-2
```

When playing back a stereo audio file, the uTrack24 allows selecting a pair of rear-panel outputs on which the file will be played out.

- 88/96K Output: For the 88.2/96 kHz sample rates you can select any pair between outputs 1-2 and 7-8
- 44/48K Output: For the 44.1/48 kHz sample rates you can select any pair between outputs 1-2 and 23-24

⚠️ *Note: In SYNC mode the Stereo Mode is not supported.*

18.6. Sync Menu

The sync menu helps you to form a sync group with more than one uTrack24. With a sync group, multiple devices can record and playback synchronously. The transport can be started only on the Master device and the Slave devices follow the master.

```
Settings
Playback
Sync
Utilities
```
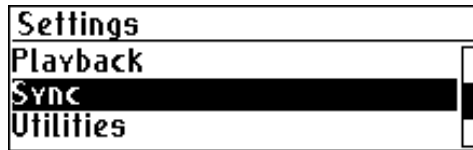
For more information about forming the sync group and sync related features, please refer to the dedicated sync manual that can be downloaded at www.cymaticaudio.com/downloads

18.7. Inputs

The inputs menu appears only when a digital option card (MADI / ADAT / AudioLan) is installed in your uTrack24. This menu allows you to select which inputs shall be recorded on the uTrack24. The selection of inputs is allowed in blocks of 8 channels:

```
Inputs
Input 01-08        Analog 01-08
Input 09-16          MADI 09-16
Input 17-24          MADI 41-48
```
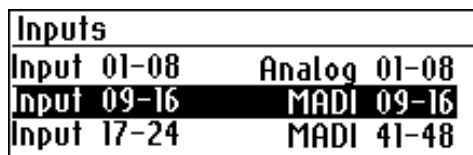
Inputs 1-8
- Analog 01-08*
- Allowed Digital Input (MADI 01-64 / ADAT In 1 / AudioLan 01-08)

Inputs 9-16
- Analog 09-16*
- Allowed Digital Input (MADI 01-64 / ADAT In 2 / AudioLan 09-16)

Inputs 17-24
- Analog 17-24*
- Allowed Digital Input (MADI 01-64 / ADAT In 3 / AudioLan 17-24)

⚠ *Note: The values marked in * are the default values.*

⚠ *Note: In case of the MADI module, any block of MADI input can be chosen as the uTrack24 input.*

18.8. MADI

This menu will only be present if the MADI module is installed in the uTrack24. The default settings for the MADI module, for each menu settings, are denoted with an asterisk (*).

```
MADI Menu
MADI Input          Optical
Mode              64ch (Ext)
96K Format         96k Frame
```

MADI Input: Selects which of the two physical MADI inputs will be used for the incoming MADI stream:
- Optical *
- Coaxial (BNC)

Mode: Choose the channel mode that matches the channel count of the MADI system you are working with.
- 64ch (Ext)*
- 56ch (Std)

96K Format: Choose the frame type required for your MADI system at 96KHz
- 96k frame*
- 48k frame

Outputs 44/48 kHz: Choose which audio stream feeds the MADI output connector, when the uTrack24 system is running at a sample rate of either 44.1 kHz or 48 kHz. The audio streams can be selected in groups of 8 channels and can be the playback channels from uTrack24 or MADI input signals.

```
Output Source 48 kHz
Out 01-08       uTrack 01-08
Out 09-16       MADI In 09-16
Out 17-24       MADI In 33-40
```

The options available for MADI outputs 1-8 is shown below. Outputs for the other channels(upto 64) are available in the menu

> **Out 01-08**
> - uTrack24 01-08*
> - uTrack24 09-16
> - uTrack24 17-24
> - MADI In 01-08
> - - - - - - - - -
> - MADI In 57-64

Outputs 88/96 kHz: This menu selects which audio stream feeds the MADI output connector, when the uTrack24 system is running at a sample rate of either 88 kHz or 96 kHz. The menu is similar to the Outputs 44/48 kHz except that uTrack24 is restricted to 8-tracks of playback when running at 88.2 kHz or 96 kHz
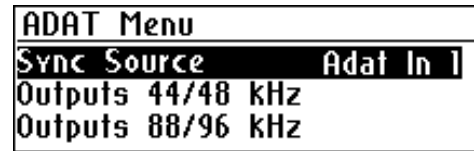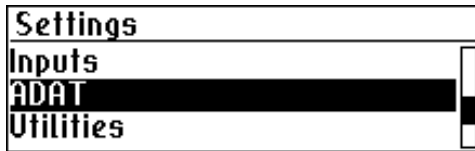
The options available for MADI outputs 1-8 is shown below. Outputs for the other channels (up to 32) are available in the menu

> **Out 01-08**
> - uTrack24 01-08*
> - MADI In 01-08
> - - - - - - - - -
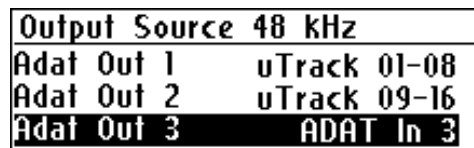> - MADI In 25-32

18.9. ADAT

This menu will only be present if the ADAT module is installed in the uTrack24. The default settings for the MADI module, for each menu settings, are denoted with an asterisk (*).

```
Settings
Inputs
ADAT
Utilities
```

```
ADAT Menu
Sync Source     Adat In 1
Outputs 44/48 kHz
Outputs 88/96 kHz
```

Sync Source: Selects which of the 3 ADAT input would be used as the sync source. The clock source should be set to Digital I/O to have the device synced to the ADAT card.

Outputs 44/48 kHz: Choose which audio stream feeds the ADAT out port, when the uTrack24 system is running at a sample rate of either 44.1 kHz or 48 kHz. The audio streams can either be playback channels from uTrack24 or ADAT input signals.

```
Output Source 48 kHz
Adat Out 1      uTrack 01-08
Adat Out 2      uTrack 09-16
Adat Out 3       ADAT In 3
```

The options available for ADAT outputs at 44/48 kHz are.

- **Adat Out 1** : uTrack 01-08* / Adat In 1
- **Adat Out 2** : uTrack 09-16* / Adat In 2
- **Adat Out 3** : uTrack 17-24* / Adat In 3

Outputs 88/96 kHz: Choose which audio stream feeds the ADAT out port, when the uTrack24 system is running at a sample rate of either 88.2 kHz or 96 kHz. At 88/96 kHz the ADAT works in SMUX mode with 4 channel outputs on each of the out ports 1 and 2.

The options available for ADAT outputs at 88/96 kHz are.

- **Adat Out 1/2** : uTrack 01-08* / SMUX In 1/2

18.10.   AudioLan

With AudioLan digital card, you can connect directly to any industry standard AES67 and Ravenna audio network.

When using the uTrack24 with a USB drive, the Audiolan card acts as a stream provider when the device is playing back and it acts as a stream receiver when the device is recording.

When the uTrack24 is used as an interface device, the AudioLan option is available in the settings menu, allowing you to choose if the card should work as **Input** or as **Output**.

18.11.   Utilities Menu

The Utilities menu contains assorted global settings and functions, as follows:

```
Utilities Menu
Delete Single Song
Format USB
System Details
```

Date/Time: Allows you to set your local date and time. The uTrack24 will use this to set a time-stamp metadata field in the recorded take.

Delete Single Song: Allows you to delete a song from an attached USB drive. On clicking the Delete Single Song menu option, the browser opens up and lets you select a song to delete.

**Format USB:** Lets you format (erase) the USB drive that is connected to the front panel USB port.

Note: Formatting an attached USB drive will ERASE all data AND partitions currently on the drive. Make sure you have copied/backed up any data you do not wish to lose.

System Details: This menu displays various information about your uTrack24:

- Firmware Version: Displays the version number of the firmware of your uTrack24.
- IP Address: Displays the IP address of the uTrack24 when it has been connected to a local area network
- Device Name: Displays the name assigned to your particular uTrack24. This name can be edited using the uRemote software.

IP Settings: This menu is useful in a network setup where the uTrack24 needs to have a static IP address. The static IP address and the subnet mask fields are visible only when the DHCP is disabled. The uTrack24 should be restarted for and IP setting change to take effect.

```
IP Settings
DHCP               disabled
Static IP    192.168.004.235
Subnet mask  255.255.255.0
```
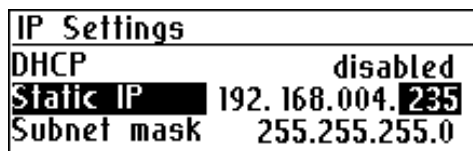
18.12.   Load Settings

Selecting the "load settings" command will load all of the settings you last saved, using the "saved settings" command. This command can be used to return the uTrack24 back to a familiar state that you had last saved it as.

18.13.   Save Settings

Selecting the "save settings" command will save all of the current menu settings as well as the mixer settings to an onboard memory slot that can later be loaded back into uTrack24. The mixer settings are also saved. On boot-up the mixer settings are automatically loaded up.

19.   USING THE uTrack24 AS A COMPUTER AUDIO INTERFACE

The uTrack24 can be connected to a personal computer or iOS device via its rear panel USB port, and operate as a 24-input, 24-output computer audio interface.

19.1. Using the uTrack24 as an Audio Interface with Microsoft Windows

19.1.1. Minimum System Requirements

Operating Systems (32- or 64bit):

- Windows 7, Windows 8, Windows 10

Hardware:

- Pentium® IV 1.2 GHz or better
- 512 MB Ram (1GB or more recommended)

Note: The speed of your computer's processor, amount of RAM, and the capacity, size, and speed of your hard drives will greatly affect the overall performance of your recording system. A faster processor and more RAM can reduce signal latency (delay) and improve overall performance.

19.1.2. WDM and ASIO driver installation

Before connecting the uTrack24 to your PC, please download the driver package from www.cymaticaudio.com/downloads

- Double click the exe file and and follow the on-screen instructions.
- When prompted by the installation program, connect the uTrack24 to your PC by connecting the supplied USB cable to the uTrack24 USB 2.0 connector on the rear panel and an available USB2.0 port on your PC.

19.2. Audio Interface Signal Flow

When using uTrack24 as an audio interface, the inputs/ouputs can be connected to the PC DAW. The headphone outs can be adjusted using the uTrack24 mixer panel application on the PC. Change the DAW fader (only output channel 1 and 2) and Line fader (stereo downmix of the inputs) to get the desired headphone/main output.
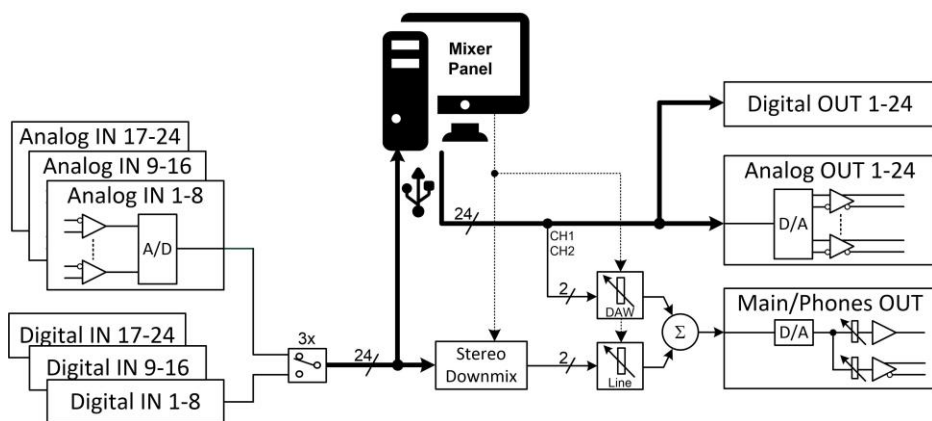
19.2.1. uTrack24 Mixer Control Panel for PC

The uTrack24 driver installation program will automatically install the uTrack24 Control panel on your PC. You can launch it by clicking on the uTrack24 icon in the Windows task bar, or by locating the program in the Windows start menu. The mixer control panel allows adjustment of the uTrack24's internal mixer when operating as a USB interface.

Mixer View
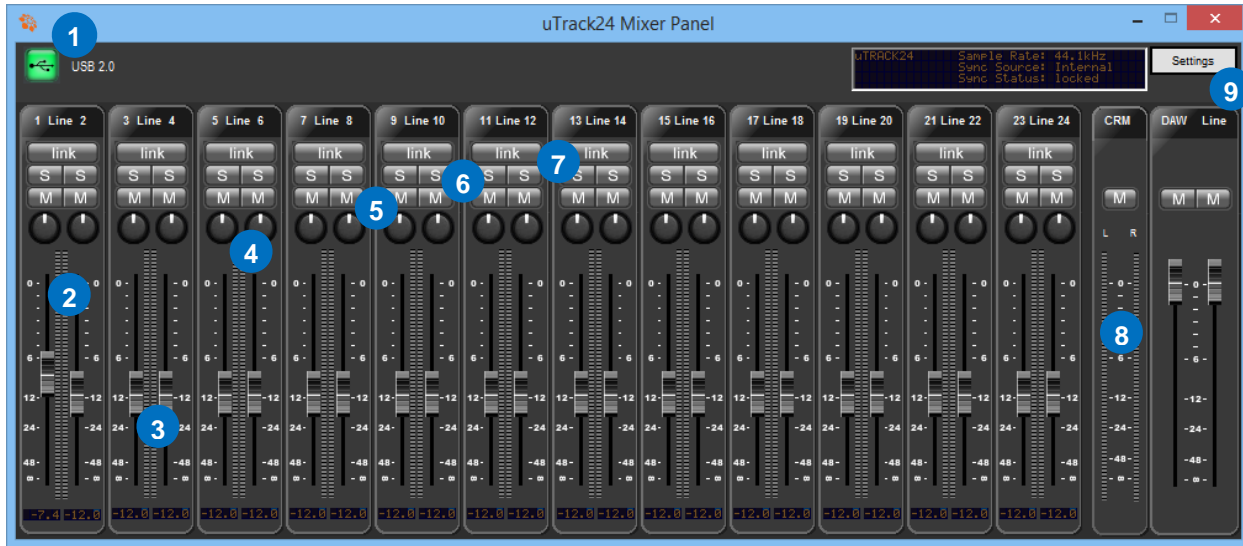
1. **USB connection indicator**
2. **Input level meters**
3. **Faders**
4. **Monitor panning**
5. **Mute**
6. **Solo**
7. **Channel link**
8. **Control room output level**
9. **Display device settings**

Settings View: Synchronization Tab
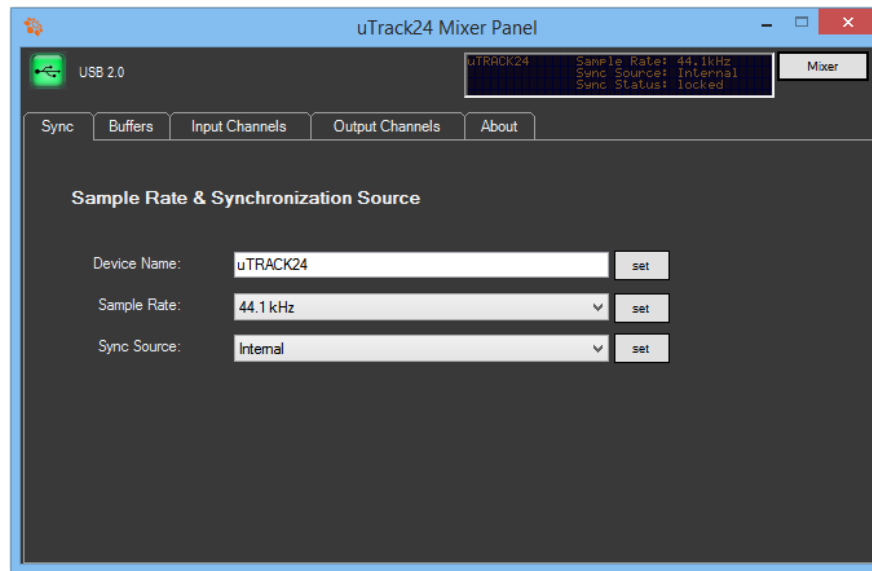
Device Name: The device name field controls what device name will appear in your DAW software. The default name is "uTrack24" but it can be modified to the name of your choosing.
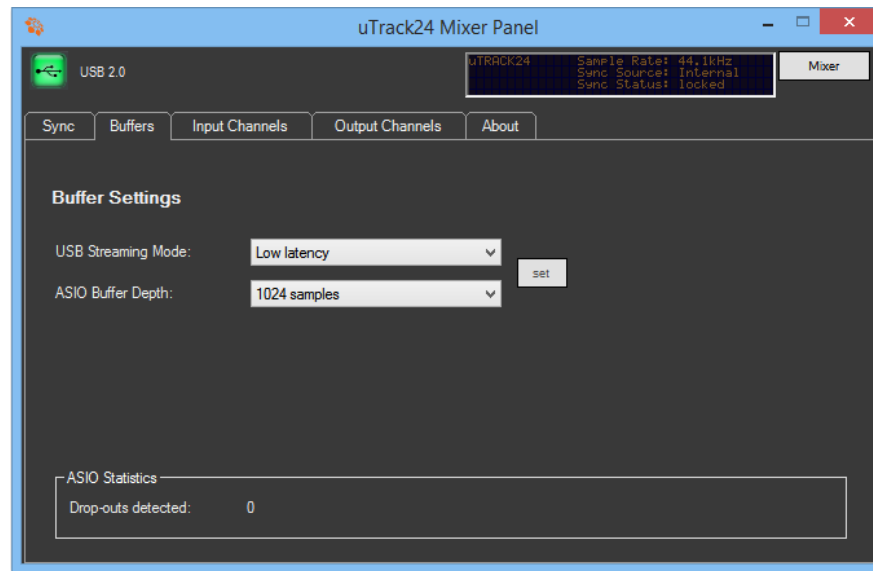
Sample Rate: Click on this field to select what sample rate you wish to operate the uTrack24 at when using it as an audio interface. Choices include:

- 44.1kHz
- 48kHz
- 88.2kHz
- 96kHz

Sync Source Display: This field displays the current synchronization source. Choices include:

- Internal
- Word Clock
- Digital I/O

Settings View: Buffers Tab

The control panel's buffers screen allows adjustment of the ASIO buffers used by your ASIO compatible software.

**USB Streaming Mode:** Adjust this value to set the basic mode of operation of the uTrack24 drivers.

ASIO Buffer Depth: Adjust this setting to configure the size of the ASIO buffer, measured in samples.

ASIO Dropout Statistics: This display field indicates how many "drop-outs" have occurred, if any, with the currently selected buffer settings.

Dropouts indicate that your computer's CPU cannot keep up with the demand that is placed on it by the current buffer depth. If any dropouts occur, increase the size of the buffer depth and / or change the streaming mode until no more dropouts are reported.
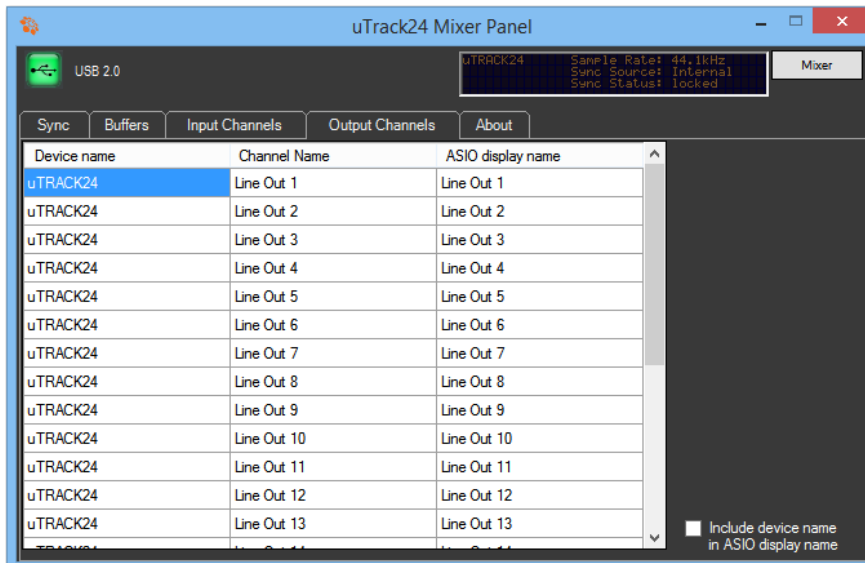
Settings View: Input Channels Tab

Double click an entry in the "channel name" column to modify the input channel names as they will appear in your DAW.
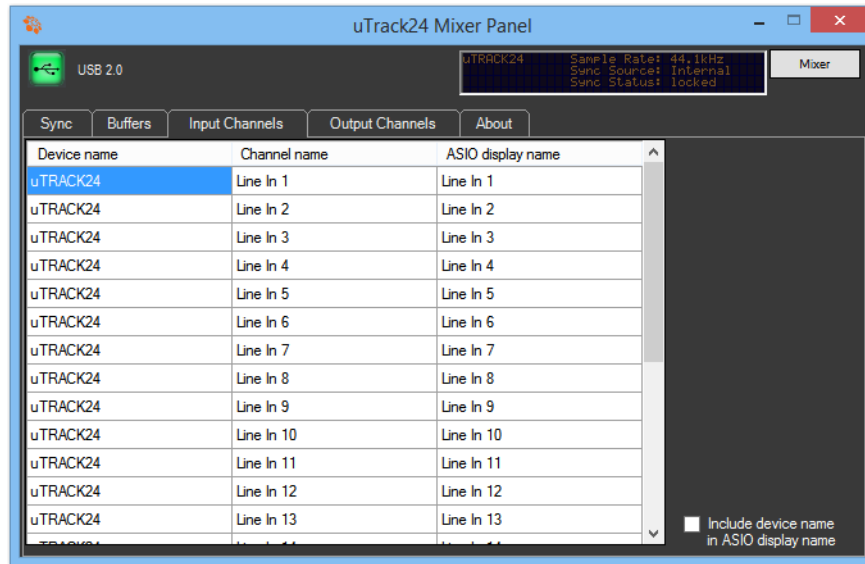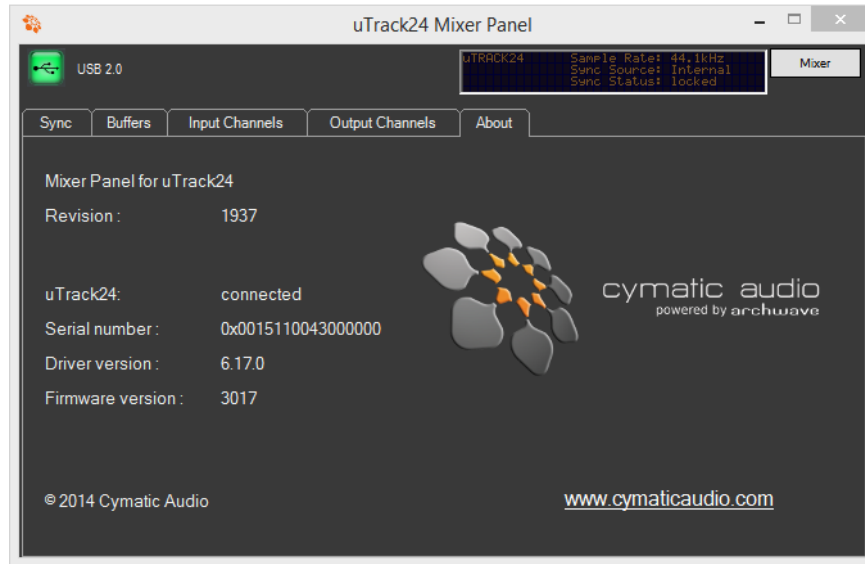

Settings View: Output Channels Tab

Double click an entry in the "channel name" column to modify the output channel names as they will appear in your DAW.

Click on the checkbox labeled 'Include device name in ASIO display name' if you wish to prepend the channel output names with the device name.

Settings View: About Tab

Revision: Displays the revision number of the control panel.

uTrack24: Displays the connection-status for the uTrack24, indicating if the device is connected and recognized by the computer.

Serial Number: Displays the serial number of the connected uTrack24 unit.

Driver Version: Displays the version number of the installed device driver

Firmware Version: Displays the current firmware version of the connected uTrack24 unit.

19.3. Using the uTrack24 as an Audio Interface with an OS X

19.3.1. Minimum System Requirements

Operating Systems:

- Mac OS-X® 10.8 or higher

Hardware:

- Any Mac hardware compatible with OS X 10.8 or higher
- 512 MB Ram (1GB or more recommended)
- One available USB 2.0 compatible port

No driver installation is necessary for OS X computers. Simply connect your Mac® to the uTrack24 using the supplied USB cable. The device shall be selectable in the "Audio MIDI Setup" application, which can be found in the Applications/Utilities folder.

When working as an interface with OS X, the uTrack24 supports operating frequencies of 44.1 kHz, 48 kHz, 88.2 kHz and 96 kHz.

To operate the uTrack24's at 88.2/96 kHz, when the system is in 44.1/48 kHz, from the settings menu choose "MAC 96kHz" option. The UI prompts the user that the system will restart. After choosing YES, the uTrack24 restarts and the OS X detects the uTrack24 in 88.2/96 kHz mode. At this point, all four sample rates are selectable from the computer's sound control panel.

⚠️ *Note: There is no custom uTrack24 mixer control panel available for OS X, as there is when using the uTrack24 with Windows.*

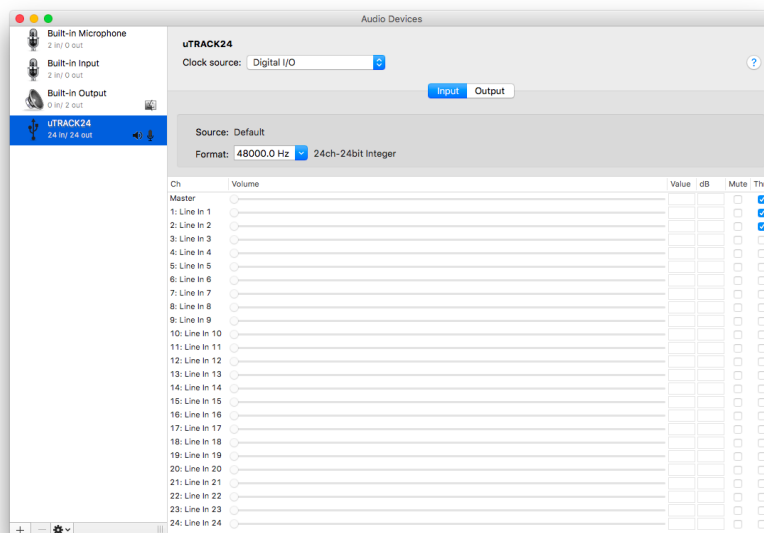## 19.4. Using the uTrack24 as an Audio Interface with an Apple® iPad®

19.4.1. Minimum System Requirements

Operating Systems:

- iOS® 5 or higher

Hardware:

- iPad® 2 or newer
- Apple® iPad Camera Connection Kit (for iPads with 30-pin connector)
- Apple Lightning to USB Camera Adapter (for iPads with Lightning connector)

There is no driver installation for the iPad® necessary. Simply connect the uTrack24 to your iPad® using supplied USB cable. The uTrack24 can now be used as a 24-input, 24-output audio interface with the iPad® and appropriate multi-channel iOS recording software.

19.5. Audio Interface Control Room Features

The uTrack24 contains a "main out" audio output path, which allows for monitoring your DAW mix over speakers and headphones.

When streaming from a DAW, channels 1-24 will output to the 24 physical outputs of the rear panel d-sub connectors. However, DAW outputs 1-2 are also output to both the 1/4" stereo main outs, as well as the front panel phones connector. Both the main outs and the phones connector have their own dedicated volume control knobs.

20.   UPDATING THE FIRMWARE OF uTrack24

Please check www.cymaticaudio.com/downloads for available firmware updates for your uTrack24.

The uTrack24's currently installed firmware version can be determined through the "Utilities/ System Details" menu. If you determine that your uTrack24 firmware version number is lower than the version number of the downloadable uTrack24 firmware on the Cymatic Audio website, please perform a firmware update.

### 20.1. Firmware update using a Network Connection (Windows & OS X)

Firmware updates can also be performed over the network. Connect the uTrack24 to your local network using the rear panel RJ45 network connector.

- Download the firmware update.
- Open the "Utilities/System Details" Menu on the uTrack24 and note down the IP address shown on the screen. (if the IP address reads 0.0.0.0 the device is not properly connected to the network)
- Open a browser (e.g. Google Chrome) on your computer and type the IP address into the browsers address bar and hit return. After a short moment, the following page should appear in your browser:
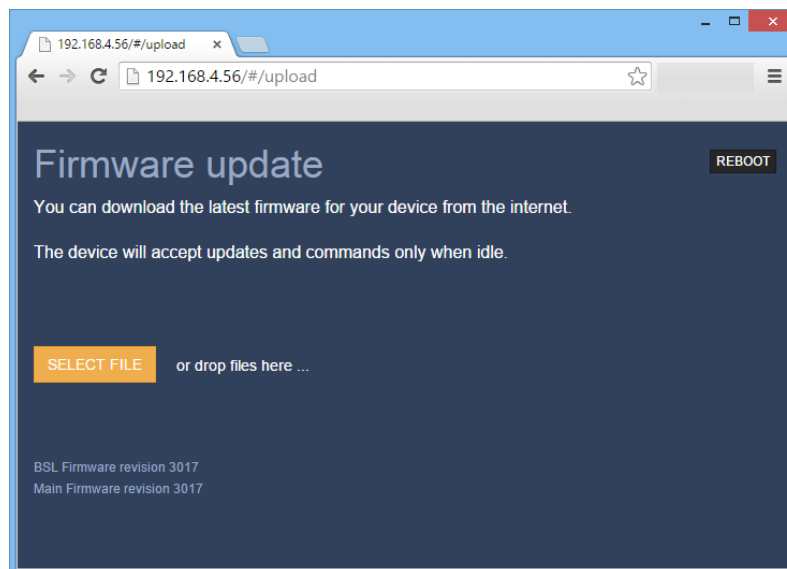

Drag and drop the firmware update file onto the orange SELECT FILE button. Alternatively click the SELECT FILE button and select the file with the file browser that opens.

Click the green "UPLOAD FIRMWARE" button that appears. The update process starts and you will see a progress bar indicating the upload progress.
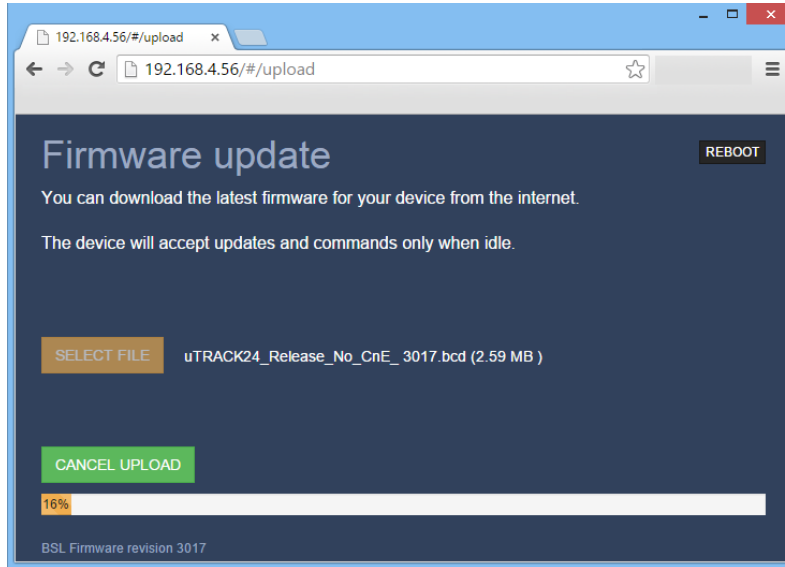
After the image is successfully updated, the browser shall ask to reboot the device. Click the green "REBOOT" button. The connected uTrack24 will reboot which concludes the update process. The screen will show the version number of the updated firmware.
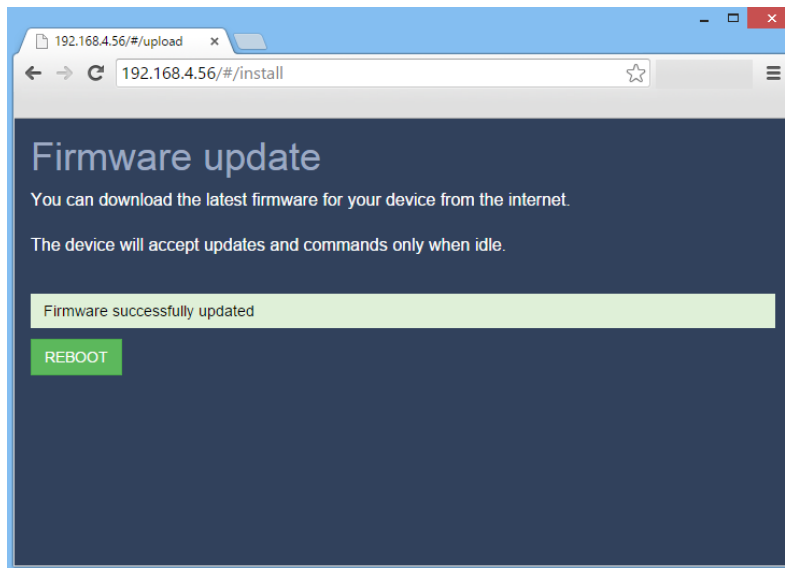
20.2. Firmware update using the USB connection (Windows & OS X)

With OS X or Windows Computer, you can perform the firmware update through USB, using the rear panel USB connector on the uTrack24.

Before starting the update process, please make sure that the uTrack24 device drivers are installed on your system (Windows only) and the uTrack24 is connected to your computer using the supplied USB cable.

Download the uTrack24 USB Updater Application from www.cymaticaudio.com/downloads. Both OS X and Windows versions are available. Double click the downloaded application and follow the on-screen instructions.

## 20.3. Firmware update using USB drive

From firmware version 3017 and above, it is possible to update the uTrack24 firmware using a USB drive connected on the front panel. Place the .bcd file into the root folder of a USB drive. Plug in the USB drive into the uTrack24 and the update will happen automatically. A firmware upgrade screen will be shown on the uTrack24 display. If the uTrack24 detects that it has the same firmware version as on the USB drive, the update is not performed again.

21.   Legal Disclaimer

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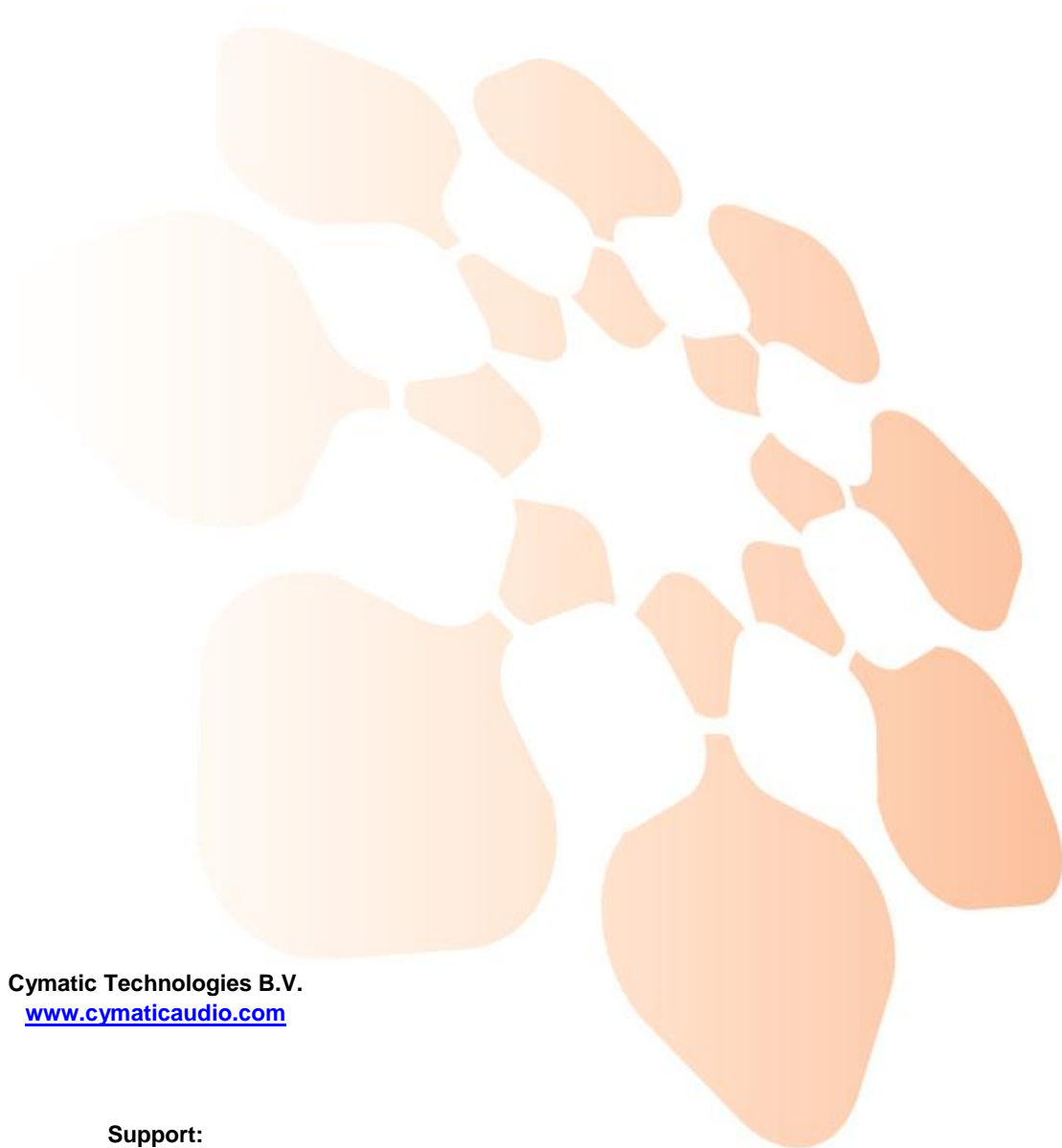
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User Manual
uTrack24
July 2017