

Relative Time Counter

overview

This is a relative time counter that receives MTC (MIDI Timecode) and can be set to 00:00 (zero start) at any given time.

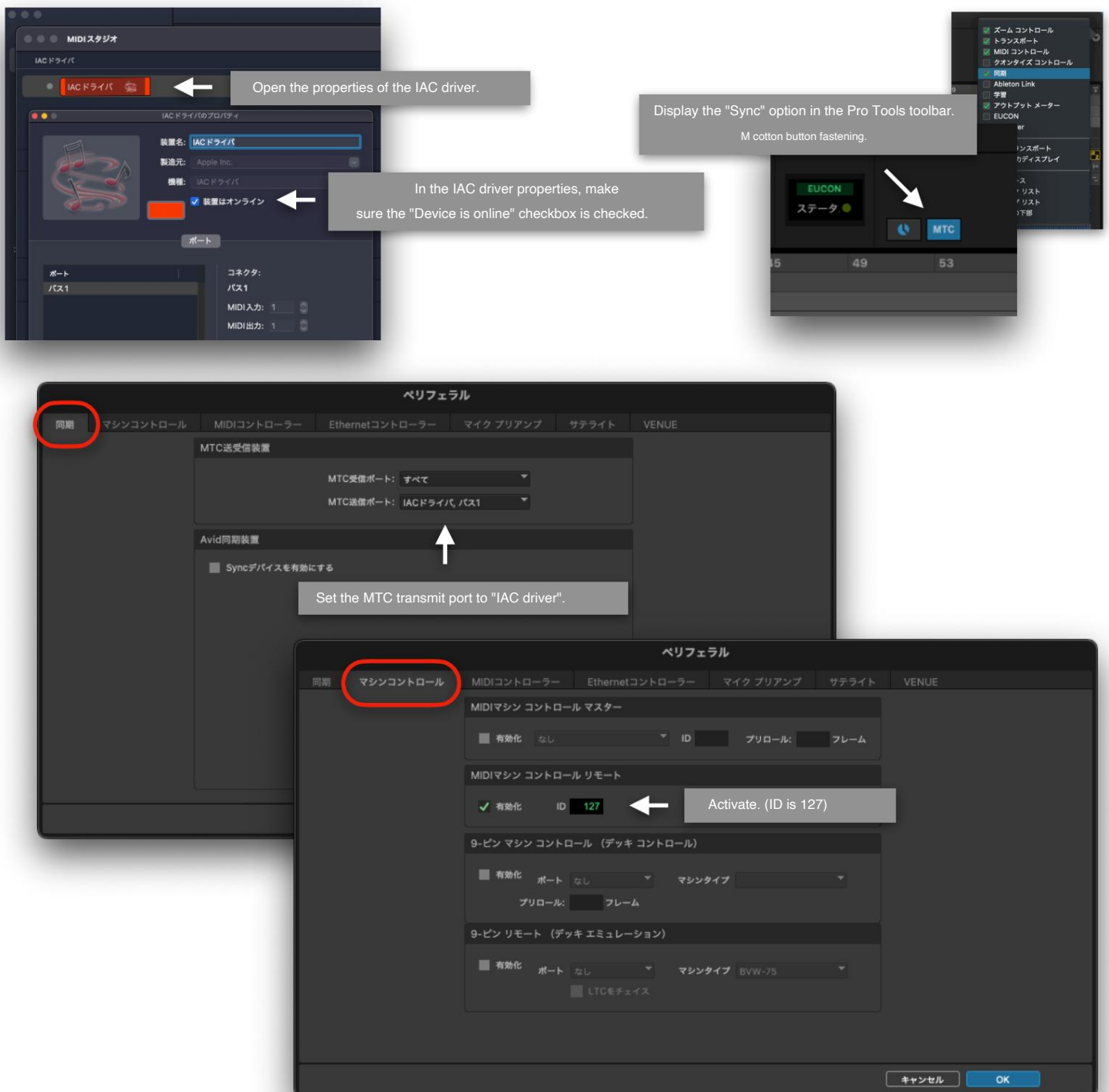
- Even with TC frame rates of 23.976fps and 29.97fps (non-drop), which cannot display real time, real time display is possible by applying correction. - There is an extra feature called "Auto Talkback function". When enabled, it can automatically mute built-in microphones on MacBooks, USB-connected microphones, webcam microphones, etc. during playback (when MTC is received), saving you the trouble of muting the microphone during playback when doing online mix checks, etc.

Required Setup: Audio MIDI Setup

settings: Enable the IAC driver in MIDI Studio. (Check the "Device Online" box.) Pro Tools settings: Peripheral / Sync MTC Send/Receive settings: Select "IAC Driver" for the MTC Send port.

- Pro Tools Settings: Enable MIDI Machine Control Remote under Peripherals/Machine Controls. (Use ID 127) - Display Sync in the Pro Tools toolbar and turn on the MTC button. ***Audio MIDI settings only need to be configured once; you don't need to configure them every time.**

***Since Pro Tools settings are saved per session. If RTC does not work after switching sessions, check the MTC output port and related settings.**

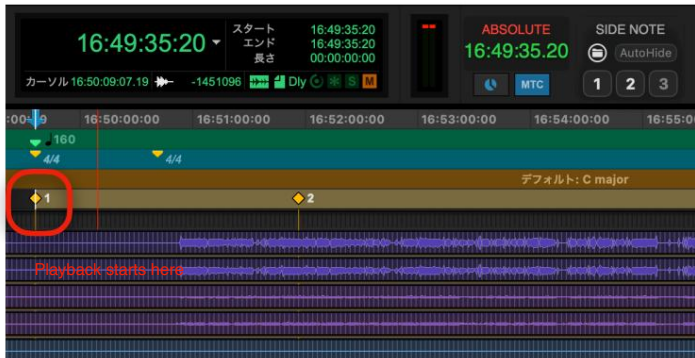


You can start using it right away if you remember these two things!

= Simple Manual =

Frequently used operation - Part 1 (Setting the counter to 0 at any position)

- Start playback from the point where you want the counter to be 0.
- Click the + button on the RelativeTimeCounter window.



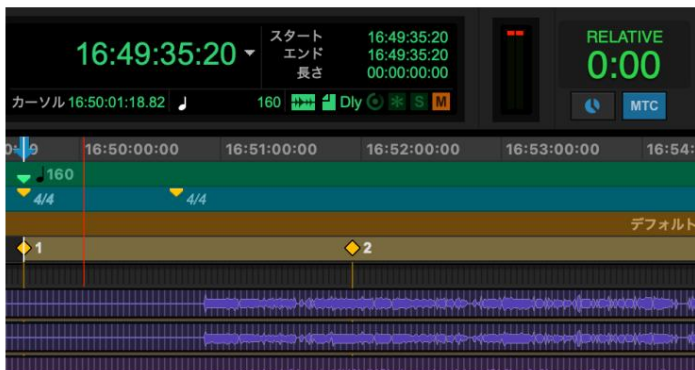
Example: If you want to set marker 1 to 0.

Playback starts from here. Once the counter starts moving...



Press and hold the RelativeTimeCounter app window and click! That completes the setup. It will automatically switch to Relative mode.

*The point at which playback last started before clicking will be set to 0.



Absolute refers to the end, up to the frame.

Relative displays the time down to the last second by default. (An option to display the frame number is available.)

* You can toggle the display of ABS REL by Shift+clicking. * You do not need to switch to ABS if you want to set another value to 0.

No. In either mode, +click resets to 0.

Frequently Used Operations - Part 2 (Locate)

Double-click the RelativeTimeCounter window.



Double-click the RelativeTimeCounter app window to open the input panel.

For example, if you want to locate the point at 1 minute and 50 seconds.

Enter the numbers "150" consecutively.

The panel will be formatted as "1:50". After confirming the formatted text, you can locate it by pressing the Enter (Return) key.

*Example

input: If you want to locate 25 minutes, enter "2500" to get 25:00.

If you want 1 hour, 15 minutes, and 25 seconds, enter "11525" to get 1:15:25.

*In REL mode, the TC value is calculated by reverse-calculating the ABS value from the REL value on a frame-by-frame basis; in ABS mode, the TC value is used directly.

However, since MMC locating is processed in seconds according to the standard, we round the values to approximate them. Please understand that there may be slight errors in the locating results.

Remember how to access the settings panel!

= Detailed Manual =

Basic operations



This app consists only of a small, semi-transparent counter window. You operate it by clicking on this window.

+ Click	Set the counter to 0.	It will be reset to 0 at the last position where playback started.
Double-click	Locate function	After entering a numerical value, press the Enter key to send the location information.
Shift + Click	ABS/REL display switching	
Right-click (Control + Click)	Displaying the settings panel	You can adjust settings such as turning the correction function on or off.
Option + Click - No function assignment, but...		macOS standard "Switch to the application you clicked" "Hide current application" works. When you click an option while working in Pro Tools, Being able to hide it is quite convenient.

Settings panel

The counter window can be displayed by right-clicking (control-clicking) it.



You can directly input an Absolute value of Rel = 0. You can also change the Relative value, allowing you to set an offset display by using any REL value instead of 0 with any ABS value. *Please set REL after setting ABS. Changing ABS will reset REL.

The current operating mode is displayed. (This is automatically set based on the received timecode and whether correction is on or off.)

You can turn 23.976fps and 29.97fps (non-dropped) correction on or off. **MTC cannot automatically detect 24 and 23.976, or 30 and 29.97 non-drop rates. Please manually turn them on or off according to your session's TC rate.**

If not set correctly, there will be a discrepancy of about 4 seconds per hour between real time and playback time. This doesn't have much impact on short songs, but it becomes a problem with longer tracks.

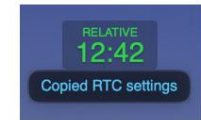
An option to display frames even in Relative mode.

An option to use the PTSL SDK (Pro Tools Scripting SDK).

[*Using the PTSL SDK can automate the above frame rate detection process. \(There are Pro Tools version requirements for use. Please refer to the RTC PTSL SDK guide.\)](#)

Settings saving function (save and restore settings as text data): You can save the "ABS value, REL value, 23.976 correction on/off status, and 29.97ND correction on/off status" in text format. Click the counter and press +C to copy the current settings as text to the clipboard.

You can save your settings by pasting them into any text-enterable field in Pro Tools, such as the comments section, marker name field, or marker comment field, using the +V key combination.



Click the counter,

Press +C to copy the settings to the clipboard. (A notification will appear indicating that the settings have been copied.)

Press +V to paste the settings text into the comments section, etc.



To restore the settings, copy this entire text, including the symbols and numbers, and then click the counter.

Paste using +V.



The ABS value, REL value, and the on/off status of the correction function will be restored.

(A notification will appear indicating that the item has been restored.)

Option to restore previous settings at startup

This feature allows you to restore the settings to their last used state upon startup. (It is enabled by default.)

This feature can be turned on or off using the checkmark in the settings menu.



On: You will be asked whether to restore each time you start up. Off: You will always start up in an ABSOLUTE state with no offset reset.



Auto Talkback function

- You can automatically mute the built-in microphone, USB microphone, and webcam microphone while Pro Tools is playing (while MTC is being received).

*This feature is intended for communication devices such as the Mac's built-in microphone or USB microphones, not microphones connected to an audio interface.

This is intended for use with communication apps (such as Zoom, Google Meet, or Line) used for mix reviews and similar purposes.



You can enable it by checking the box in the settings menu. (It is off by default.) When enabled, a round menu bar item will be added to the right side of the menu bar.



You can turn this on or off by clicking this icon.
When it's on, the inner dot will light up.



Lights off: Auto Talkback **off**

Lights up: Auto Talkback **on** (color changes depending on status)

The outer ring also lights up.

Always on microphone

Green light: **Microphone automatically turns on** when stopped. Red light: **Microphone automatically mutes** when playing.

Shift + Click for mute hold mode: microphone is always muted
(Click to unmute. Unmute will return you to the state before mute hold.)

Right-clicking (control-clicking or option-clicking) this icon will display a menu for adjusting microphone volume and other settings.



The Mic Volume slider allows you to adjust the microphone input level.

• The Auto Talkback setting allows you to adjust the delay before the microphone turns back on after stopping.



To prevent the microphone from frequently turning on and off when repeatedly playing and pausing during work, A delay is included between stopping and unmuting the microphone. The delay time can be set from 0 to 3000 msec. (Default: 500 msec)

If you have multiple microphones, you can select which microphone to control.