
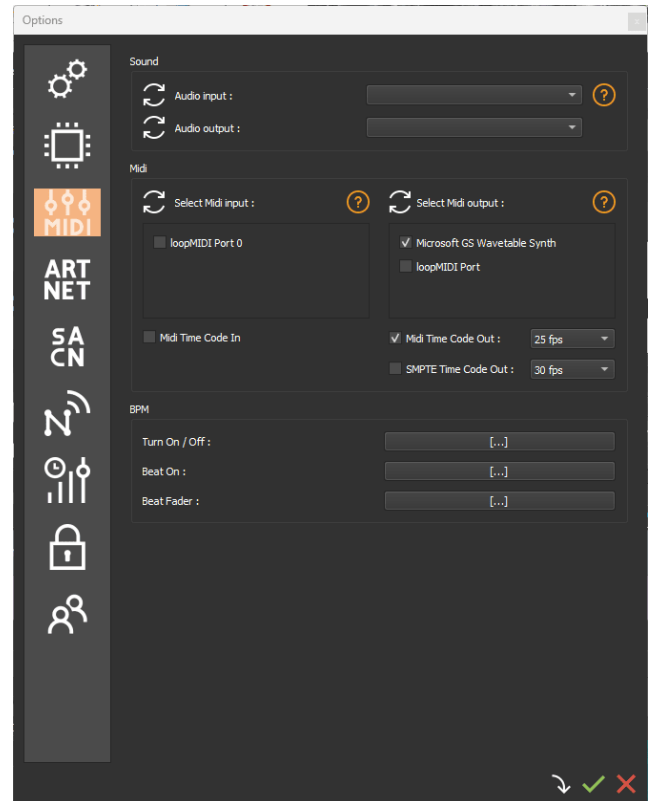


HOW TO USE MIDI & SMPTE TIME CODE

Midi Time Code In/Out

Midi Time Code (MTC) is a standard protocol used to synchronize the Timeline with multimedia devices, such as audio and video equipment, by transmitting timing information.

Open the software and click on options icon  to open the option window then click on Midi icon



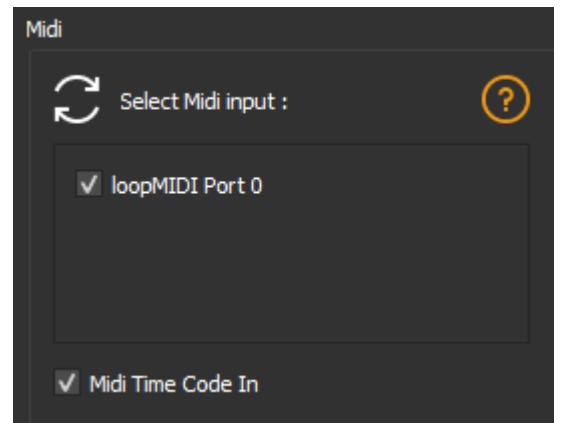
Midi Time Code In

In the Midi section, "Select Midi input" verify that your virtual Midi port are displayed and checked.

The loopMIDI port is automatically installed with the software.

Check "Midi Time Code In" case.

The timeline play button  is waiting for a signal from a software program or transmitting device to start playback.

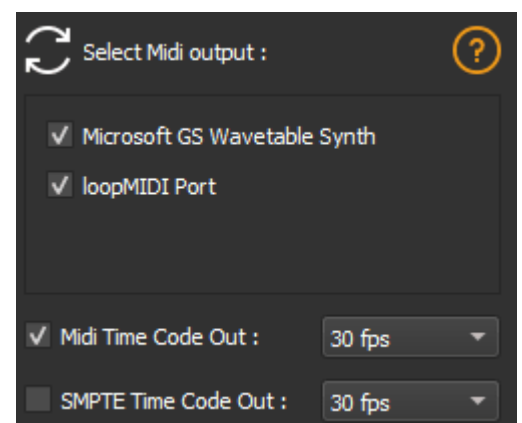


Midi Time Code Out

In the Midi section, "Select Midi output" verify that your Midi port are displayed and checked.

The loopMIDI port is automatically installed with the software.

Check "Midi Time Code out" case.




Start timeline playback to send the signal to a software program or receiver device.

SMPTE Time Code In/Out


SMPTE time code is a standard for encoding individual frames of video or film with a unique time code used to synchronize the Timeline with multimedia devices.

SMPTE linear timecode⁽¹⁾

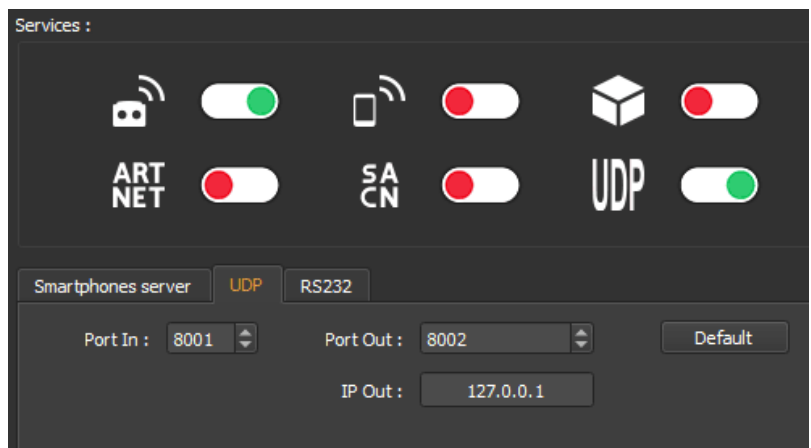
Bit	Weight	Meaning	Bit	Weight	Meaning	Bit	Weight	Meaning	Bit	Weight	Meaning	Bit	Value	Meaning
00	1	Frame number units (0-9)	16	1	Seconds units (0-9)	32	1	Minutes units (0-9)	48	1	Hours units (0-9)	64	0	Sync word, fixed bit pattern 0011 1111 1111 1101
01	2		17	2		33	2		49	2		65	0	
02	4		18	4		34	4		50	4		66	1	
03	8		19	8		35	8		51	8		67	1	
04	User bits field 1		20	User bits field 3		36	User bits field 5		52	User bits field 7		68	1	
05	User bits field 1		21	User bits field 3		37	User bits field 5		53	User bits field 7		69	1	
06	User bits field 1		22	User bits field 3		38	User bits field 5		54	User bits field 7		70	1	
07	User bits field 1		23	User bits field 3		39	User bits field 5		55	User bits field 7		71	1	
08	10	Frame number tens (0-2)	24	10	Seconds tens (0-5)	40	10	Minutes tens (0-5)	56	10	Hours tens (0-2)	72	1	
09	20		25	20		41	20		57	20		73	1	
10	D	Drop frame flag.	26	40		42	40		58	BGF1	Clock flag	74	1	
11	C	"Color frame" flag	27	(flag, see below)		43	(flag, see below)		59	(flag, see below)		75	1	
12	User bits field 2		28	User bits field 4		44	User bits field 6		60	User bits field 8		76	1	
13	User bits field 2		29	User bits field 4		45	User bits field 6		61	User bits field 8		77	1	
14	User bits field 2		30	User bits field 4		46	User bits field 6		62	User bits field 8		78	0	
15	User bits field 2		31	User bits field 4		47	User bits field 6		63	User bits field 8		79	1	

Open the software and click on options icon  to open the option window.

SMPTE signal is read or sent on the software UDP ports.

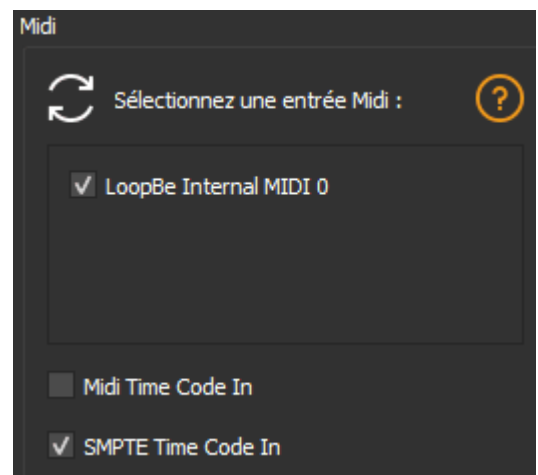
Click on Network icon.  to select UDP option.

Click on Midi icon 



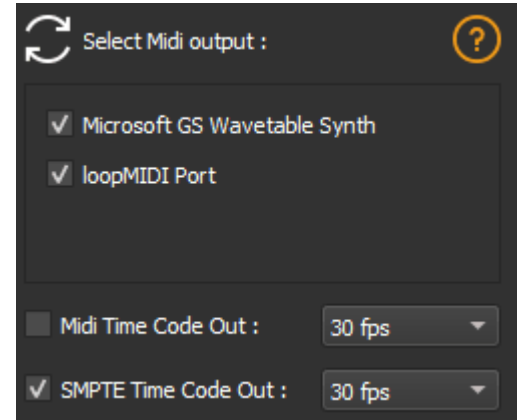
SMPTE Time Code In

In the Midi section, "Select Midi Input" and Check "SMPTE Time Code in" case.



SMPTE Time Code Out

In the Midi section, "Select Midi output" and Check "SMPTE Time Code out" case.



Wiring diagram

