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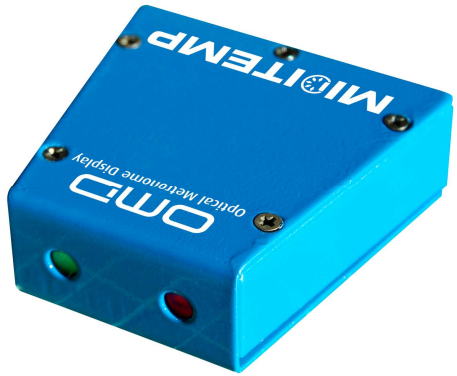
MIDITEMP

OMD

Optical Metronome Display



Owner's Manual

Thank you for purchasing a Miditemp® - Product. ☺

OMD was developed due to lots of our user's and customer's demands, just like many other products made by MIDITEMP.

OMD simply is an optical tempo-display, that can be used like an acoustic midi-click-track, generated by a tone generator, but, with the OMD it is optical now.

At the front side you find 2 LED's, at the backside you have the connector for the (included) 5-meter cable to a midi-port, and a 3/8" thread, that you can use for to mount the OMD onto a mic-stand, gooseneck or where ever you'd like to mount it to – that's just all.

OMD needs a click-track, made out of 2 different midi-notes, to get triggered.

The default setting of the OMD is:
Midi-channel 10, Hi & Lo Woodblock, midi-notes #76 and #77 (E4/F4).
At a 4/4 midi song E4 is 1, F4 are 2, 3, 4.
The beat refers to the individual midi file, according to its programmed beat (2/4, 3/4, 4/4) etc.
As soon you start the midi file, OMD automatically starts flashing it's Led's, the same way as an electronic metronome would do this.

On stage you simply connect the OMD to one of the midi-output-ports of your midi file-player. Your click-track must be routed to this specified output-port –, press play…that's it.

Even so in studio-applications…just create a click-track inside your sequencer-software and route this track to the midi-output-port, where the OMD is connected to– ready for take-off! ☺

You also got the possibility to configure the OMD the way you want it to use.
So you for example can adjust the LED's brightness, their flash-duration time or control their brightness by velocity.
This simply is done by sending a SYSEX-stream to your OMD.
On the next page some explanations, how to do.

MIDI System Exclusive Format OMD (HEX)

General SysEx-format

```
F0
<Manufacturer-ID>      (Manufacturer-ID: "MIDITEMP" = 00 20 0D)
<ID>                   (ID: Device-address, 7F= 'all devices'
                        other: MIDI channel number of the device
<DT> <address>         (DT: 06 = device "OMD")
<data...>
F7
```

Parameter Data

Addr.	Parameter
0	MIDI channel
1	Mode
2	Note Number (LED 1)
3	Note Number (LED 2)
4	duration of flash (1) (milliseconds)
5	duration of flash (2) (milliseconds)
6	max. brightness (LED 1)
7	max. brightness (LED 2)
8	controller number for brighness ctrl. via CC-msg. (default: CC# 0B = Expression)

Value of Mode

```
00    =  no brightness control
01    =  brightness control by note velocity
02    =  brightness control by control change
03    =  brighness control by velocity & chontrol change
other =  (reserved)
```

If flash time (Param. 5, 6) is 0, LEDs are flashing in "decay"-mode.

Examples

Factory settings

```
F0 00 20 0D 7F 06 00 09 00 4C 4D 32 32 7F 7F F7
```

Flashes by notes 76/77 (GM: High/Low Wood block) on MIDI channel 10, maximum brightness, 50 ms flash time, no brightness control

Changing flash time to 0 ("decay-mode") for both LEDs

```
F0 00 20 0D 7F 06 04 00 00 F7
```

Activate brightness control by velocity

```
F0 00 20 0D 7F 06 01 01 F7
```