

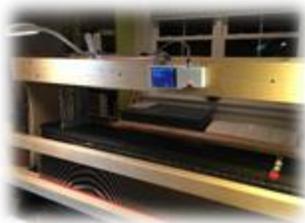


# TempoTreadle

Enjoy stress free weaving with TempoTreadle!

TempoTreadle is a system designed to augment your traditional floor or table loom to make your weaving process more accurate and stress free. With audible alerts, you are assured that each pick will be correctly placed.

The name, TempoTreadle, reflects the intention that a weaver's natural rhythm not be interrupted. The tempo of treadling through the sequences should remain natural, but with the added assurance that the weaver will be warned of a treadling mistake, and need not worry about getting lost in the treadling sequence if distracted. Unlike other treadle tracking software, there is nothing to touch to advance the pick; the TempoTreadle system knows whether you pressed the correct treadles. Normally you don't watch the display while weaving, but if you do want to check the display screen you'll see the previous, current and next treadling sequence, pick color, what treadles are pressed (if any), pick counters and total time weaving. Other features assist in calculating the length woven, alerts for section changes, information screens to verify tie-ups, colors used and even a threading application.



TempoTreadle is extremely useful for highly complex and long treadling sequences, but even a plain weave project can benefit from using the system. For example, if you had a warp for plain weave napkins, you may want to set alerts when the pick count had been reached to end each napkin, or be reminded when to change colors, and when your project is finished, you can know exactly how much time you spent weaving.

If you have been interested in the benefits from a computer or compu-dobby type loom, but prefer to treadle a traditional loom, then this system should be a very nice option for you. It's a little technology that goes a long way towards enhancing your traditional weaving to be more enjoyable and efficient.

## How TempoTreadle Works

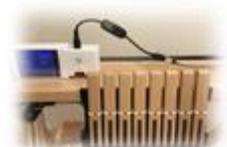
Sensors, placed near the treadles, detect signals when a magnet (discretely mounted under the treadle) comes into proximity; a signal is sent to a microprocessor running custom written software that provides the capabilities to the weaver to track their weaving progress.

When you first receive your TempoTreadle system, instructions will guide you on where to place the sensor array. The picture above shows the underside of treadles on a Leclerc loom with flat brackets holding magnets, and the sensor array sitting on the floor.



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TempoTreadle also makes complex weaving on Table Looms easy to follow and error free.



We've successfully installed TempoTreadle on many different looms. When presented with looms we haven't yet tried, we ask for pictures and measurements. We can then design 3D-printed components that works well with your loom.

The system unit, which connects to the sensor array cable, can be shared between different looms. Downloadable software updates will be available from time-to-time with new features requested by you and other TempoTreadle customers.

The low power requirements enable the system to be powered by a common USB battery pack, and optionally plugged into a power outlet.

Weaving designs are transferred from your PC or Mac to TempoTreadle via a Micro-SD card.

The system unit has a color touch display; just touch the screen to select setup options or go to the weave screen to start weaving!

## Success Stories

From a weaver with a 14-treadle Macomber Loom:

*... I cut off the patterned portion of the placemat warps last night...woo hoo!! They are beautiful and I certainly could not have treadled that 1035 pick pattern accurately without my trusty TT!!*

From an early Beta Testing Weaver using an Oxaback Lilla Counter-march Loom after receiving some improvements for her TempoTreadle setup:

*It's a New Game!*

*I just wanted to reiterate how well TempoTreadle is working with the new magnet holders. It's made it a totally different experience for me! The sensor contact is so reliable that I have been able to turn off the "correct" tone, and now am only notified when I make a mistake. My weaving is peaceful and uninterrupted, without any worry of losing my place in the pattern. It really is a delight, and for the first time I can truly appreciate what the system offers.*

From a Weaver using a Schacht Baby Wolf Loom:

*I'm hooked! I'll never weave without it!*



## About Us

We love the Fiber Arts! We have combined our love of weaving, spinning, knitting and felting with our skills in computer software development and electronics.

In 2014 I caught "new loom fever" and strongly considered purchasing a new Computer Loom. I was drawn to the capabilities, and especially the ease of weaving complex treadling sequences without error. As I thought about the computer loom, I realized that a big part of my pleasure in weaving is the active treadling, thus the idea for TempoTreadle was launched.

We went through a lot of prototyping while learning about sensors, 3D printing and embedded computing platforms. We have arrived at a combination of hardware and software for a system that exceeded our goals! Now we want to share TempoTreadle with the weaving community and hope to attract more people to the craft.

In 2015 we started LoftyFiber's online store, [www.loftyfiber.com](http://www.loftyfiber.com), sharing quality yarn, fibers, and supplies for the Fiber Arts. We strive to provide excellent prices and passionate customer service.

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