

Bar Tape

(Order Code TAPE)

Bar Tape is a 3 m long piece of flexible plastic that has alternating opaque and transparent bars with a spacing of 1.524 cm. The tape can be attached to objects and pulled through the photogate. This allows you to perform experiments much like what you would do with a “ticker tape timer”. Experiments include:

- Studying the motion of a toy car
- Studying the motion of other toys, e.g., air powered rockets
- Studying the motion of a person as they hold the tape and walk away from the photogate

What Software Is Compatible with the Bar Tape and the Guide?

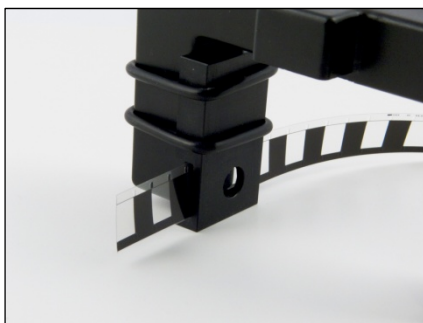
This Guide along with Bar Tape is designed for experiments using any of the following programs:

- Logger *Pro*® (for computers)
- LabQuest® App (for LabQuest 2 or original LabQuest)
- EasyData™ (for TI graphing calculators)
- DataQuest™ for TI-Nspire™ Technology

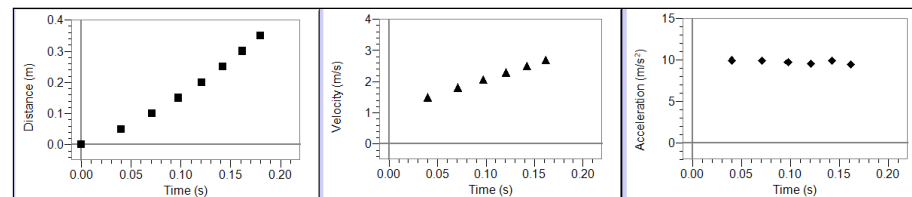
With each program, you need to select Bar Tape as the object that is moving through the photogate. The exact details of the process depend upon the version of the program. Refer to the program’s help file or the user’s guide for the program. You can also contact Vernier if you have questions.

Here are two examples of how Bar Tape can be used.

1. Use the Bar Tape Guide which is a part of the Photogate Bar Tape Kit (order code TAPE-VPG) to attach the Bar Tape to the photogate. The Bar Tape can then be attached to an object like a toy car.
2. Cut off a short section of the Bar Tape (about 9 cm) and attach it to a piece of clear plastic. By doing this you can make a miniature version of our Picket Fence.

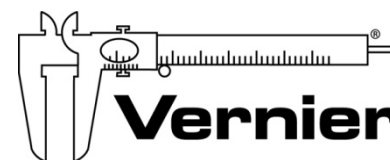


The miniature picket fence will produce very nice motion graphs when dropped through a photogate. The graphs below were all made this way.



Vernier Software & Technology has additional products for motion timing with a photogate.

- Photogate Bar Tape Kit (order code TAPE-VPG) – This kit contains 3 m of Bar Tape and a Bar Tape Guide.
- Picket Fence (order code PF) – It is 38 cm long and has opaque bars every 5.00 cm. It is designed specifically for free fall experiments.
- Cart Picket Fence (order code PF-CART) – It has two sides: A single 5 cm wide bar and a set of 13 bars with 1 cm spacing.



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