



play the light®

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## Technology Behind the beamz™

The beamz is a revolutionary new musical product capable of accomplishing what no other instrument or device could do before. It allows anyone to play harmonious music through a patented, proprietary relationship between musical scales and algorithms. Because the beamz is so easy to use, it is deceptively simple. But when you dig deeper, you'll find complex and innovative methods.

The beamz has six laser triggers and two button-controlled triggers that activate up to 64 independently controllable sequences of musical notes or events. Each laser is programmed to trigger different melodies, sounds or instruments. When a beam is broken, the custom software program releases a musical note, event or musical phrase (musical building blocks if you will) that is always harmonious to the other sounds.

### What it is

This software application is the brains of the beamz, and is akin to what video game developers long have used to match sounds to the gamer's unpredictable actions. The beamz application creates a unique musical outcome based on multiple trigger types. It does this by combining a patented algorithm with:

- Unlimited number of sequences synchronized to a central clock
- Up to 99 music channels, combining MIDI, wave files, samples and other musical elements
- Chord mapping

### What it is not

The beamz is not like other digital music devices you've seen before. It is not a:

- Simple loop player
- Random musical event generator
- General MIDI (GM) engine
- Theremin

The musical arrangement of each piece is completely determined by the player's technique. The sophisticated technology makes it easy for anyone to perform immediately and experience instant gratification. The more complex features allow experienced players to enjoy many levels of creativity, learning and a lifetime of exploration.

The beamz holds five patents, with six others pending as of Spring 2008.

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