



## clearaudio 300hz Speed Light and Stroboscope Test Record Set User Manual

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**clearaudio**

**clearaudio 300hz Speed Light and Stroboscope Test Record Set**



The Clearaudio Stroboscope test record and 300Hz speed light enable you to make extremely precise speed adjustments to your turntable. Dramatic sound improvements can be achieved with precisely calibrated speeds.

### Optimal adjustment for turntables



To adjust the exact speed, please choose the side for 50 / 60Hz, or the other side for the use with the Speed Light first. If you choose the side without the Speed Light source, you can use the regular light source for the installation, either 50Hz (outer scales) or 60Hz. The scales are graduated in three different reading options: 33.3rpm, 45rpm and 78 Hz (starting from the outer diameter). Please place the Stroboscope Testrecord on your turntable platter and start the engine of your turntable. The big advantage of the ClearaudioStroboscope Testrecord is, that you can place your cartridge onto the strobe record, while measuring the speed, as there are grooves provided on the disc. This means, for the first time a real time speed analysis is possible under realistic circumstances. The lines of the strobe ring indicating the chosen speed should appear to be stationary. If they are moving, then adjust the turntable speed according to the turntable user manual until the lines do not appear to move. – If the lines move clockwise, the speed is too fast. – If the lines move anti-clockwise, the speed is too slow. Once you have set the exact speed, you can enjoy the full potential of your vinyl collection. Please put the Stroboscope Testrecord with the fine lines upward on your turntable. Here you also have the possibility to choose between two different speeds. With the outside scale you can detect the speed of 33Hz and with the inside scale you can detect the speed of 45Hz. Again, the big advantage of the Clearaudio Stroboscope Testrecord is, that you can place your cartridge onto the Stroboscope Testrecord, while measuring the speed, as there are grooves provided on the disc. This means, for the first time a real time speed analysis is possible under realistic circumstances.

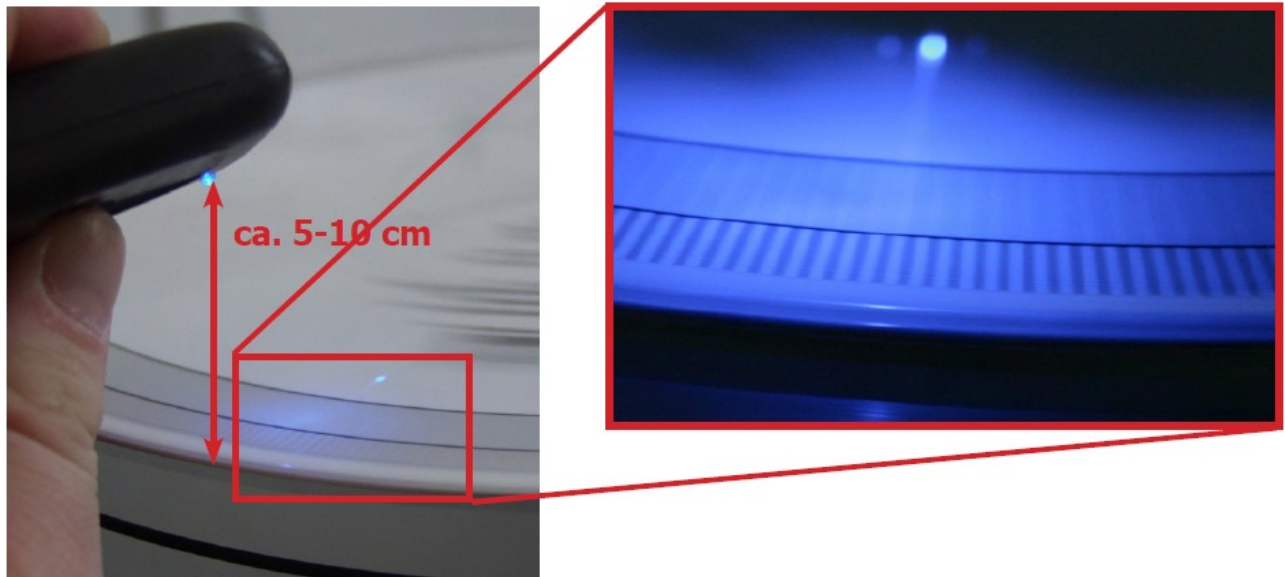
### Tip

As more accurate your turntable speed is adjusted, as better the overall sonic appearance of the record playback will be! It is mandatory to check the speed several times through out the year, to ensure that other influences are not minimizing the sound quality. Please enjoy your vinyl records now even more ! Yours Clearaudio team

## Usage of the Speed Light

If you use the Speed Light (AC039) you can reach an even higher or more accurate adjustment, completely independent of the power line or frequency of your country. As well, the 300Hz calibrated light, used as an external light source is completely independent from possible power line fluctuations, which could influence the result by regular light. The 300Hz of the Speed Light are generated by a stabilized quartz oscillator and permit a very exact adjustment.

1. Please put the Stroboscope Testrecord on your turntable.
2. To adjust the optimal speed for the turntable with the Speed Light , hold the Speed Light about 1.97 – 3.94 inch (5 – 10 cm) over the Stroboscope Testrecord (picture 1).



**Pic. 1:** Distance between *Speed Light* and *Stroboscope Testrecord*

3. When the black lines stop in the blue light and do not move visible, you have the optimal speed. (33 1/3rpm outside strobe, 45rpm inside strobe) (picture 1)
  1. If the lines move clockwise, the speed is too fast.
  2. If the lines move anti-clockwise, the speed is too slow.
4. For the optimal speed adjustment we recommend our Smart Syncro (Art.No. EL024), so you can exactly adjust the speed on the Hz.
5. If the intensity of the light reduces, please change the battery. Use the exact battery type: V23GA – 12V – Alkaline

## Attention

Open the Speed Light : If the battery is flat, please open the Speed Light with a thin screwdriver. You can easily push it in and turn it (picture 2). Take care about the polarity of the battery when changing (picture 3).



**Pic. 2:** Opening the *Speed Light*



**Pic. 3:** Polarity of the battery

**The blue LED is not a laser diode! Do not look directly in the light!**

### **Technical Data – Speed Light**

- **Light source:** Blue LED / 300Hz precision light source (calibrated)
- **Battery:** V 23GA – 12V – Alkaline

#### **Please note:**

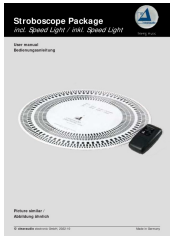
An insufficient battery voltage can lead to inaccurate measurement results, even if the voltage is still sufficient to light the blue LED. In case of extreme fluctuations of the measurement results, we recommend replacing the battery.

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### **Documents / Resources**



[clearaudio 300hz Speed Light and Stroboscope Test Record Set](#) [pdf] User Manual  
300hz Speed Light and Stroboscope Test Record Set, Speed Light and Stroboscope Test Record Set, Stroboscope Test Record Set, Test Record Set

## References

-  [clearaudio analogshop](#)
-  [clearaudio electronic GmbH | High End - made in Germany](#)

Manuals+.