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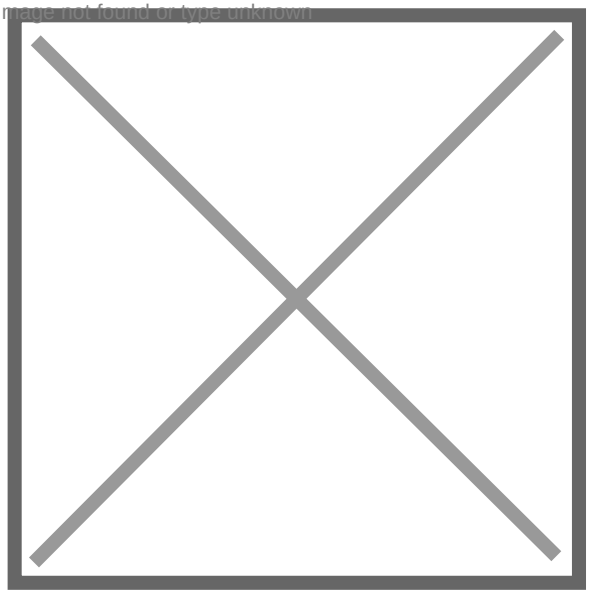
Product Name :

Apparatus for Investigating the Change of Frequency of Stationary Waves in a String

Product Code :

SCL-207/048

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Description :

Apparatus for Investigating the Change of Frequency of Stationary Waves in a String (Product Code: SCL-207/048) is a wave motion kit used to set up standing waves on a stretched cord and study how their frequency depends on tension and length in school and college physics labs. A signal generator drives a wave generator, while hooked masses of (50–100) g hung overa fixed pulley tension the cord. The apparatus is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, an OEM manufacturer, at its own factory in Ambala, India.

Specifications

Parameter	Detail
Wave source	Generator for the production of waves
Signal source	Generator of the input signal
String	Cord or elastic thread
Tension masses	Set of masses, (50–100) g, with hook
Pulley	Fixed pulley
Length control	Connecting bridge
Product code	SCL-207/048
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab) — OEM
Country of origin	India (made in Ambala, Haryana)

What Is the Stationary Waves in a String Apparatus Used For?

This is the classic Melde-type experiment. The cord runs from the wave generator, over the bridge and the fixed pulley, to the hooked masses. As the frequency from the signal generator is raised slowly, the cord suddenly settles into one, two, three or more stable loops, with clear nodes and antinodes. Each of these resonant frequencies follows f = (n/2L)?(T/?), where L is the vibrating length, T the tension and ? the mass per unit length of the cord.

Students can hold the length fixed and change the hanging mass to see the frequency for a given loop count rise with tension, or move the bridge to change L and watch the frequency fall as the length grows. Count loops only when the pattern is steady, measure L from the bridge to the pulley, and keep the masses clear of the floor. The kit is a compact piece of physics lab equipment for school practicals on waves and resonance.

What to Specify When Ordering

- Number of apparatus sets for your laboratory.
- Your mains supply details, so the signal and wave generators can be matched to it.
- Whether you want additional (50–100) g hooked masses or spare cord for more tension settings.

OEM

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