r/ThingsYouDidntKnow • 16 days ago
TheStocksGuy

Harness the Power of Light with LuminaBlade!

LuminaBlade: Harness the Power of Light with Innovation

LuminaBlade: A state-of-the-art innovation that blends the brilliance of luminescence with the precision of a blade. This futuristic tool utilizes cutting-edge laser technology and high-reflectivity surfaces to create a controlled and measurable light beam, perfect for scientific experiments, precision tasks, and more. With its sleek design and unparalleled performance, LuminaBlade is not just a tool; it's a beacon of innovation.

Features:

- **Advanced Laser Technology**: Utilizing high-power lasers for exceptional performance.
- **Precision Engineering**: Reflective surfaces to minimize power loss and ensure beam integrity.
- **Real-Time Detection**: Integrated sensors to measure and detect any interference.
- **Versatile Application**: Ideal for scientific research, industrial applications, and creative projects.

Setup:

- **Laser Source**: Use two laser pointers emitting beams with sufficient power.
- **Reflective Container**: A container with highly reflective internal surfaces.
- **Initial Reflection Points**: Each laser beam reflects within the container until only the last 6 feet of each beam exits.

Detection Mechanism Inside the Container:

- **Photosensors/Photodiodes**: Place photosensors near the reflection surfaces inside the container. These sensors will detect changes in the laser's intensity.
- **Calibrated Detection**: Calibrate the sensors to detect the baseline intensity of the laser beam. Any deviation indicates an interference.
- **Measuring Point of Degradation**: Position the sensors at points along the laser's path where degradation is expected. The sensors can track changes in brightness to determine if an object has passed through.

Implementation Steps:

- **Reflective Path**: Design a reflective path within the container that directs the laser beams in such a way that the sensors can monitor the intensity at different points.
- **Sensor Placement**: Position an array of photosensors near the reflection mirrors or surfaces. Ensure they are placed at intervals to monitor the laser's intensity effectively.
- **Data Collection**: The sensors will continuously measure the intensity of the laser beam. If an object passes through, causing a disruption, the sensors will detect a brighter point closer to the reflection mirror.

to determine the position and nature of the interference.

- **Feedback Mechanism**: The microcontroller can provide real-time feedback on the laser's intensity and detect any changes due to passing objects.

Summary:

By integrating photosensors near the reflection surfaces inside the container, you can measure any interference or object passing through the laser beam. This setup ensures that any changes in the laser's intensity are detected, providing precise measurements of the interference point.

If this study already has been applied, Sorry! I was only trying to build star wars.

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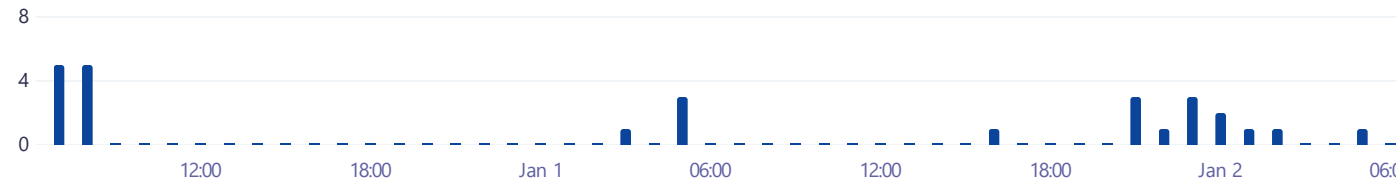

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