

Apertua™

AntiCAD



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Apertua™ was inspired by the aperture mechanism found in camera lenses. The aperture can be operated in two different ways, either manually or powered by an Arduino Uno micro-controller board. We made a lever which allows the 22 arms to rotate the flexible 0.3mm aluminium blades to open the aperture. The aluminium blades are made by etching. The design of the blades were generated using a 3D-modelling software to ensure smooth movement as they pan and slide across one another when the outer gear is rotated.

Technical Specifications

Structure	Flexible Fins, Stationary Ring, Outer Ring, Gears, Arms, Motors
Material	Aluminium, Stainless Steel, Polymer
Standard Dimension	300mm, 600mm, Customisable
Standard Thickness	Customisable
Mode of Operation	Manual or Servo Motor
Mechanism	Aperture
Control Angles	128 degrees
Mounting Mechanism	Wall Screws and Anchors
Designer	AntiCAD