Project Spec Doc

Magic Card Scanner

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# Summary

## High-level description of device

This device scans cards from the collectible card game Magic: the Gathering and stores that data in an organized way for easy archival. It is intended to make sorting and keeping track of cards a faster and more automated task.

# Device Goals

## Performance goals

* Processing of each card must take no longer than 5 seconds for the initial prototype and no longer than 3 seconds for the finished device.
* Capable of scanning multiple card treatments (traditional foil, borderless foil, etched foil, nonfoil, etc.)
* **CARDS MUST NOT BE DAMAGED**
* The user must not need to continue to interact with the device beyond starting and stopping a processing cycle.
* Capable of performing a lookup/search of a card within 1 second (the actual search on a software level that is, not the total process time per card).

## Design goals

* Maintain a reasonable enough footprint that it could fit on an average table or desk.
* BOM cost of less than $100 if possible.

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# Electrical Hardware

## Functional Diagram

## Power Consumption Table

## Electrical Connections Table

## Power Sequencing

## Safety

## Critical Components

## 

# Revision Table

| **Date** | **Editor** | **Changes** |
| --- | --- | --- |
| 7/12/2023 | Rob Daigle | Initial creation |
|  |  |  |