



March 2019

We're still going strong! This month, we're pleased to say we have a tangible product. Great progress has been made mechanically, electrically, and on the business side.

Mechanically, our engineering team completed final refinements for placement of components on the LED board. After completing a fit check in CAD for both the primary and secondary boards, our mechanical engineering team completed 3D prints for the housing pieces and diffuser. The mechanical team is also leading us through the process with UL. We are currently awaiting a confirmed date for our first meeting with UL. Although the process with UL is moving slightly slower than we would like, we are confident this preliminary meeting will set us up for success for the next phase. We plan to bring preliminary CAD models, PCB/electrical BOMs and files, preliminary smoke test results, photos of the 3D printed test model, and user manuals and use cases to the first meeting.



Electrically, we have completed both PCB boards and continue to develop the driver and firmware. Two of the drivers are complete, three are in process, and three have not been started. The main PCB has been fabricated and now the LED PCB will be fabricated. The next steps for the electrical engineer will be to get the smoke sensors talking to the processor, complete the development of the smoke chamber, intake and analyze smoke data, exercise the LED driver, and complete the bill of materials for the UL meeting.

On the business side, we have finalized our logo, as seen above. We will continuously introduce our fully developed logos and brand standards. Speaking of brand standards, we are in the process of reviewing the first draft of Orrigen's brand standards and language. We also have a first draft of the website and plan to go live by mid-Q2.

It's quite amazing to be able to physically touch something that was just an idea a year ago. We are so thankful you're on this journey with us and we can't wait to continue the progress!

3D Prints



figure 1



figure 2

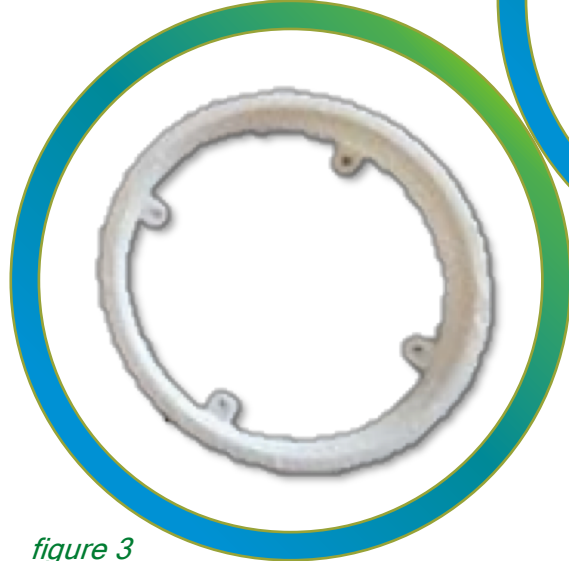


figure 3

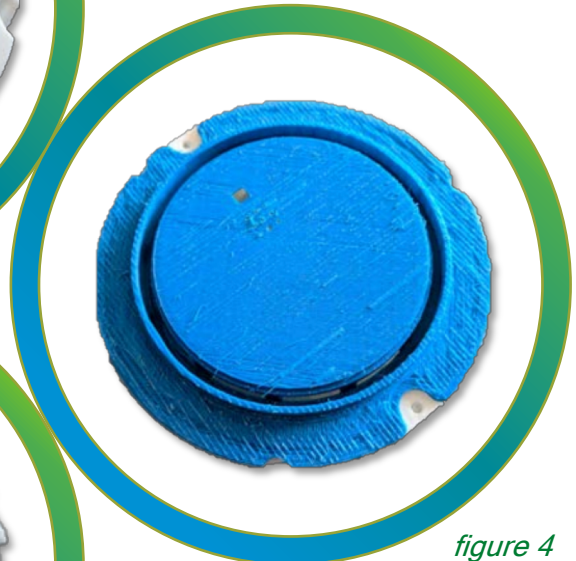


figure 4



figure 5

figure 1: external recessed housing
figure 2: internal recessed housing
figure 3: attachment ring

figure 4: external diffuser
figure 5: internal diffuser

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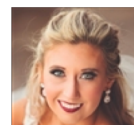
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