An Eye Opening Solution to Component Fabrication

Brian Ford

Eye-Com Corporation's eye-tracking technology has led to many research and practical applications, including the development of the next generation EC7T eyeglasses. Due to increased design complexity, Eye-Com relied on Quickparts to meet the strict requirements needed for their custom designs in a timely manner.

Eye-Com Corporation [1] is dedicated to the development of eye tracking technology to improve and save lives, support the advancement of research, and revolutionize human-technology interaction. Over the past decade, through diligent research and product development by an experienced management team and diverse engineering teams, Eye-Com technology has evolved from primitive blink detection to a powerful eye tracking platform.

Eye-Com Corporation's advanced eye-tracking technology uses frame-mounted micro cameras that record eyelid and pupil activity, as well as head tracking. Eye-tracking technology has many research and practical applications, such as driving fatigue detection, assistive communication for handicapped or disabled people, military training, medical use, and video games.

EC7T-200 eyeglasses

Eye-Com Corporation began developing the next generation version of its EC7T eyeglasses to include additional tracking hardware and an improved appearance. Hardware expert, Eliot Drake, was tasked with creating the wearable eye-tracking

systems that needed to contain extremely complex parts, including micro-cameras, a CMOS chip, LED lights, and more. “We needed 1-off prototypes at mid-production quantities as quickly as possible to evaluate each step of the design process,” said Drake.

The increased complexity of the design created more potential for manufacturing problems. With a focus on aesthetics and ergonomics, Eye-com knew Quickparts [2] would meet the strict requirements needed for their custom designs in a timely manner.

Eye-Com had used Quickparts many times in the past for their SLA needs and had come to rely on Quickparts’ speed and design validation. As part of the prototype evaluation, changes to the extremely complex parts occurred often and needed to be produced quickly. Quickparts’ online instant quoting engine, QuickQuote, was utilized for determining the best quantities and price breaks as well as saving time and confusion.

Eliot went to Quickparts for SLA prototypes to validate his design for production. “Instant quoting and quick turnaround allowed us to make several attempts at the new version without wasting time,” he said.

Knowing that many high quality parts were needed in a short time frame, Eye-Com returned to the reliable services offered by Quickparts.

“Quickparts has always delivered on time or early. The parts we received were almost 100% true to design,” stated Drake. “The superb quality and finish allowed us to show these parts as more than just prototypes. Also, the communication I received from the Quickparts team was top notch!”

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