Company Description

SightDx is a medical device company developing a novel computer vision platform for blood analysis. Our detection technology combines cutting edge applications from the fields of computer hardware, software and biology to deliver the fastest and most accurate diagnosis.

SightDx’s flagship product, the Parasight Platform™, identifies, enumerates and speciates malaria more accurately than all other currently used diagnostics. In the future, our platform technology will identify additional anomalies in blood and body fluids.

Device Description

SightDx has created the Parasight Platform™, an image-processing device for blood analysis. Parasight combines cutting edge computer vision algorithms, custom low cost hardware and novel blood preparation techniques to detect malaria in a rapid, reliable and completely automated fashion.

Our computer-vision software identifies the visual differences between healthy and parasite-infected blood and scans a greater quantity of blood with more consistency than a human microscopist. Parasight uses custom-built disposable plastic cartridges to create an efficient, standardized and uniform version of a “thin blood smear” within 15 seconds. These cartridges require a small drop of either capillary or venous blood. The total diagnostic processing time is 2 minutes per sample. Parasight’s simple user-interface provides the diagnosis, the number of parasites per microliter and species. The information is displayed on the device screen and integrates into the facility’s information system.

Proven Success

The Parasight Platform™ has undergone extensive field testing at numerous sites throughout continental India. Most notably, our device successfully completed clinical trials by the Indian National Institute of Malaria Research, demonstrating 99.4% sensitivity and 98% specificity, even at very low parasitemia levels. Parasight also provided accurate parasitemia and species reporting, providing the necessary information for optimal treatment.

Next Generation Malaria Diagnosis

Bringing speed, automation, accuracy, and low cost to malaria diagnostics
How it works

Sight Diagnostics bench sized machine requires no internal liquid reagents. To conduct a malaria test, simply mix our staining solution with a drop of blood and load into our disposable cartridge using the provided pipettor. Insert the disposable into the machine’s loading bay and start the scan. Each batch can hold up to twenty five patient samples, and cartridges can be inserted during scanning for increased throughput. Within 2 minutes per sample the results appear on the screen, are stored on the device, and automatically reported to the local information system.

Maintenance

The Parasight Platform™ has a life span of 5-7 years. Biannual servicing by a licensed technician is required. Disposable cartridges will be provided according to the users need and can be delivered on demand.

• High sensitivity (99.4%) and specificity (98%)
• Effective even at low parasitemia (100 parasites/µL)
• Accurate speciation
• Parasitemia reporting (exact number provided)
• Diagnosis within 2 minutes
• Batch loading of up to 25 samples
• Low cost

Benefits of our Malaria Test

<table>
<thead>
<tr>
<th>Advantages over RDT</th>
<th>Advantages over Microscopy</th>
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<tbody>
<tr>
<td>Works at very low parasitemia levels</td>
<td>15 seconds, easy sample preparation</td>
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<tr>
<td>Provides parasitemia count</td>
<td>No fixation or examination required</td>
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<tr>
<td>Accurate speciation</td>
<td>Rapid, objective results</td>
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<tr>
<td>Extremely long shelf life for the disposables and solution</td>
<td>Minimal training, no expertise</td>
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<tr>
<td>Diagnoses recurring infections</td>
<td>Fully automated</td>
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<td></td>
<td>Completely consistent</td>
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Specifications:

• Dimensions:  
  Width: 40 cm  
  Length: 40 cm  
  Height: 50 cm
• Weight: 25 kg
• Electricity required:  
  220/110 V  
  (currently no battery)
• 25 tests per hour
• 25 patient batches
• Tested in laboratories up to 37°C

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