OptraSCAN brings affordable digital solution for scanning cytology slides

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To Advance Cytology Screening Through Unmatched Image Quality And Artificial Intelligence Based ImageAnalysis Solution

US headquartered digital pathology firm OptraSCAN, with its development centre in Pune, has announced its intelligent solution CytoSiA for rapid yet affordable scanning and analyzing of liquid-based cytology slides and pap-smears.

It is a complete solution consisting of OptraSCAN's digital pathology scanner, storage, and powerful artificial intelligence (AI) algorithms to assist pathologists and cytotechnologists in screening and detection of cervical cancer, pre-cancerous lesions, atypical cells, and all other cytologic categories.

Multiple hospitals and pathology laboratories globally have already installed CytoSiA and are witnessing improved patient outcomes, increased efficiency, and productivity needed to cope with the ever-increasing demand of cytology cases.

OptraSCANS's digital scanners can scan cytology slides of size 15x15 mm area at 40x magnification in less than 60 seconds while generating the highest quality image. CytoSia incorporates patented technology- composite imaging which finds all pixels in focus from various Z plane images and stitches back to create a single layer composite image.

This composite imaging technology is considerably efficient as compared to traditional Z-Stacking Technology. It allows for rapid and precise screening of the entire slide within seconds. This level of precision and quality is imperative for analyzing the samples. Furthermore, it presents to the screener images of fields that would be essential in providing a cytological interpretation, place them into categories, and filter out the redundancies.

CytoSiA when used as a companion diagnostic tool, it notifies pathologists when inconsistencies between their interpretation and the AI algorithm's findings are observed, offering a safeguard against error or misinterpretation, while also improving overall care quality.