

Tempus Pixel Lung

AI-enabled solution to detect and track longitudinal changes in lung nodules^{1,2,3}

Tempus Pixel offers advanced analysis and automated reporting from routine CT images to help improve efficiency and accuracy in detecting and tracking changes in lung nodules over time, aiding providers in making informed diagnostic and disease management decisions.

BENEFITS

Nodule detection

Automatically detects and segments lung nodules in CT images, helping providers to efficiently and accurately identify potentially significant findings^{1,2,3}

Nodule quantification

Automatically quantifies and localizes lung nodules in Lung CT images to help providers make efficient, consistent, and accurate assessments^{1,2}

Nodule tracking

Automatically tracks changes in lung nodules across exams over time with tabular and graphical results for deeper insights into disease progression^{1,2}

Nodule reporting

Automatically builds standardized reporting that summarizes findings and relevant information, including scoring recommendations, for easy interpretation

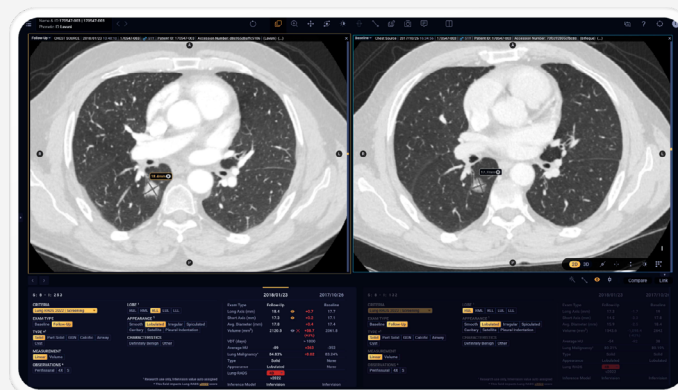
Malignancy risk stratification

Improves the non-invasive stratification of CT identified nodules at the time of nodule detection with the nodule malignancy score (this feature is available for use in research applications)⁴

NODULE DETECTION



NODULE QUANTIFICATION



MALIGNANCY RISK STRATIFICATION



CONNECT WITH TEMPUS

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As a radiologist today, I am looking for a solution that would help me increase diagnostic accuracy. Pixel Lung provides a second objective reading of the exam, which helps me to more confidently make decisions. The automated quantification tool gives me fast and accurate results and I am now able to spend more time with patients discussing their results instead of spending time manually quantifying the nodules.

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TECHNICAL REQUIREMENTS

- ✓ Patients 18 years and older only
- ✓ Axial CT images only
- ✓ Images must be 3.2mm slice thickness or less
- ✓ Images must be sequential
- ✓ Data slice thickness requires slice gap $\leq$ slice thickness
- ✓ Images must include entire lung in FoV (e.g. abdominal studies not acceptable)
- ✓ DICOM header must include all the following tags: Image Position, Patient Location, Slice Location, Slice Thickness

¹ In the U.S., Tempus Pixel Lung is FDA-cleared ([K203744](#)) but is not indicated for lung nodule detection. Lung nodule automated detection and quantification is powered by InferRead CT ([K192880](#)). Arterys Inc is the manufacturer of Tempus Pixel Lung, excluding any third party components described in this list. Infervision is the manufacturer of InferRead CT.

² In the EU Tempus Pixel Lung is CE marked and indicated for lung nodule detection.

³ Kozuka T, Matsukubo Y, Kadoba T, et al. Efficiency of a computer-aided diagnosis (CAD) system with deep learning in detection of pulmonary nodules on 1-mm-thick images of computed tomography. *Jpn J Radiol.* 2020;38(11):1052-1061. <https://doi.org/10.1007/s11604-020-01009-0>

⁴ RUO indication for US and EU.