



AIRA

Artificial Intelligence Renal Assessment

FDA 510(K) CLEARED · K261677

CE MARK · CLASS I

AUTOMATED KIDNEY SEGMENTATION AND MEASUREMENT ON CT

AIRA assists radiologists in assessing the kidneys on CT. It segments each kidney automatically and returns consistent measurements, so the radiologist starts from a measured kidney instead of a manual one. Developed in-house by Aramis.



Kidney parenchyma segmented on CT, shown in three planes for review.

FDA 510(K)-CLEARED INDICATIONS

On non-contrast CT KUB, for each kidney, AIRA measures:

Renal parenchymal volume

Cranio-caudal length

Interpolar parenchymal thickness

510(K) NUMBER	K261677
CLEARED	15 September 2026
DEVICE CLASS	Class II
PRODUCT CODE	QIH
REGULATION	21 CFR 892.2050
MODALITY	Non-contrast CT KUB
EUROPE	CE mark, Class I

A marker of renal health, measured by hand today.

Chronic kidney disease affects more than 10% of the world's population.¹ Kidney size and parenchymal volume are useful markers of renal health, but measuring them by hand on CT is slow and varies between readers. AIRA makes the measurement automatic and repeatable.

1. Kovesdy CP. Epidemiology of chronic kidney disease: an update 2022. Kidney Int Suppl. 2022;12(1):7–11.

HOW IT WORKS

From scan to measured kidney.

01 Acquire Non-contrast CT KUB from your scanner.	02 Segment AIRA outlines each kidney automatically.	03 Measure Volume, length and thickness are calculated pixel by pixel.	04 Review Measurements arrive for the radiologist to check and report.
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CONSISTENT

Standardised measurements

Pixel-based segmentation gives the same measurement method on every study and every reader.

FAST

Ready when you open the study

Measurements are prepared before reading, cutting the manual work on kidney cases.

INTEGRATED

Fits the reading workflow

Deploy on a local hospital server or in the cloud. AIRA acts only as a processor of the imaging data.

OTHER AIRA CAPABILITIES

Beyond the cleared indications

CALCULI

Renal calculi detection and measurement*

Detects renal calculi and reports their dimensions, volume and HU for characterisation.

*** Not FDA-cleared.** AIRA is not cleared for the detection or measurement of kidney stones. Calculi detection is not part of the FDA 510(k) clearance (K261677), which covers only the three kidney measurements listed on page 1. AIRA assists the radiologist; every finding is reviewed and every report is signed by a qualified doctor.

Book a demo

See it on your own studies. We set up demos around the way your centre works.

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