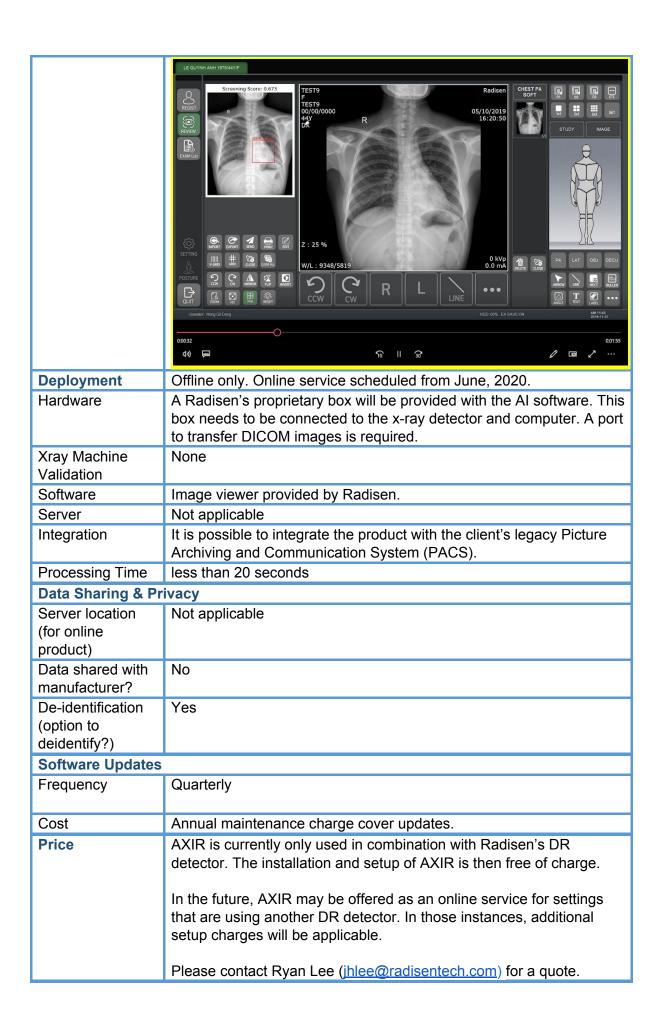
## Product Profile: Radisen Co. Ltd.

Product	AXIR
Company	Radisen Co. Ltd.
Company HQ	Seoul, Korea
Version	1.1.2.2
Website	http://www.radisentech.com
Demo	Available upon request
Last updated	March 31, 2020
Description	AXIR is a screening and triaging tool to help clinicians identify abnormalities on chest x-ray. It is also a prioritization tool for radiologists/tele-radiologists. Currently, AXIR is an integrated software which is recommended to be used with Radisen's proprietary chest x-rays detector and viewer / system.
Certification	Stage of development: Validation (recommended to use in combination with Radisen's chest X-rays detector and viewer).  Certification: Pending. Clinical evaluation under progress (KFDA, ISO13485, CE Documentation).
Intended Age Group	16+ years
Target Setting	Primary health centers, Teleradiology companies, Government/public sector, e.g. national TB program
Current Market	Currently not on the market.
Input	Can be used to read images from any kind of chest X-rays machine (vendor neutral), however it works best with the Radisen's chest X-rays system.  Chest X-ray image format: DICOM Chest X-ray type: Posterior-anterior chest X-ray Other requirements: None
Output	<ul> <li>Structured report that includes:         <ul> <li>Bounding boxes or Heat map</li> <li>Probability score for TB as well as dichotomous output indicating whether TB is likely present or likely absent.</li> </ul> </li> <li>Default threshold probability score for TB if dichotomous: 0.5, but is adjustable.</li> <li>Other non-TB abnormalities detected by the product for which a separate abnormality score is given include: nodule, mass, cavity, integration, exudation, pneumothorax and reticular opacity.</li> </ul>



Product Development	
Method (used to develop product)	Supervised deep learning (CNN)
Training	The product was trained on 150,000 chest X-rays.
Reference Standard	Human reader
Publications	Peer-reviewed publications are not yet available.