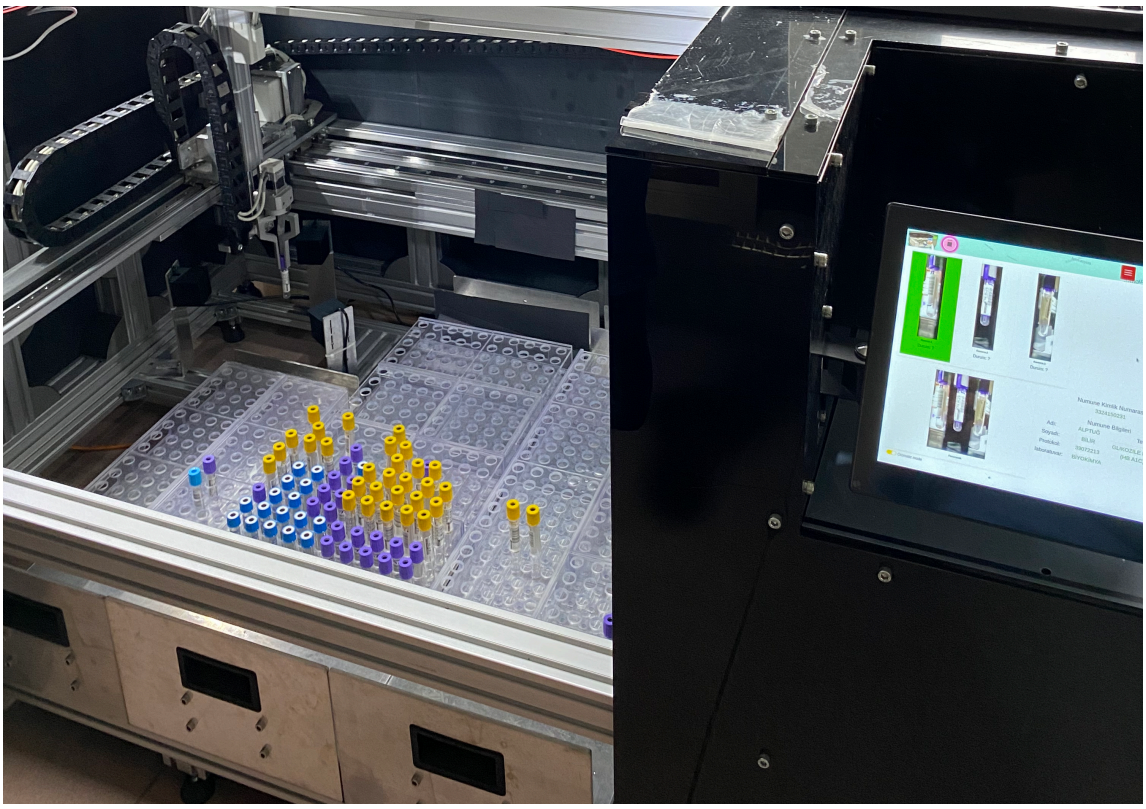

AI-Powered Robotic Pre-analytical Error Detection and Sample Check-In

KANKA AI-Based Blood Sample Check In Robot
Economic Impact and Technical Features

KANKA, using its AI, detects pre-analytical errors in blood samples, registers samples withn LIS, separates erroneous ones and groups good ones based on destination.

https://labenko.com/KankaEN.html

KANKA AI-Based Blood Sample Check In Robot	
Patent Filing Date / No	09.02.2021 / 001836 (Turkish Patent Institute)
Patent Title	A ROBOTIC SYSTEM THAT CAN LEARN FOR SAMPLE CHECK IN AT MEDICAL LABORATORİES
"KANKA" Trade Mark No	2020 99598
TUBITAK RESEARCH GRANT	KANKA : YAPAY ZEKA DESTEKLİ, KAN TÜPLERİ KABUL , SINIFLANDIRMA VE AYIRMA ROBOTU (AI BASED ROBOT FOR BLOOD SAMPLE CLASSIFICATION AND GROUPING) 2020 - 2023 Project: 3200557
Application Area	Robotic blood sample quality control, sample check in, sample grouping at Medical Laboratories. Secondary application: Automation of processed blood sample storage.
Economic and Operational Impact	• Annual winnings of $100K per annum. • TAT (Test result generation time) acceleration • Standardization in blood sample quality checking. • Increased bio-safety by reducing human-sample contact.
Basic Functions	• Scans in tube barcodes and registers with HIMS/LIMS. • Checks if the tube is right and the sample is sufficient. • Groups samples based on their destination. • Takes pictures of samples and stores them for future use.
Sample Tube Capacity	• Input area: 200 sample tubes • Output Area: 200 sample tubes • Erroneous sample area: 96 sample tubes
Sample Processing Speed	• 36-40 min / 200 tubes (or 300-330 tubes / hour)
Validation Study	Validation study is conducted at SBÜ İzmir Tepecik EAH Hospital between Jan 2023 - March 2023. Publication is in preparation.
Designed and Manufactured In	DEÜ DEPARK Sağlık Teknoparkı, Balçova, İzmir
Technology	Proprietory AI algorithms, robotic technologies with high quality components, software technologies.
Lifetime and Warranty	Expected lifetime 10 y Warranty for production faults 2 y. Technical support free 1 y.
HIMS/LIMS Integration	HIMS/LIMS side integration is the responsibility of the customer institution. KANKA side integration is provided free of charge by Labenko.
Winnings from Investment	KANKA, after its costs are deducted, provides earnings upto $100K per annum.
ROI	8,5 months.
Product Web Page	https://labenko.com/KankaEN.html
Contact	info@labenko.com +90 232 277 5559 / +90 533 221 6066