Innovation of AI technology screening system

CervirayAI®





AIDOT

CervirayAl®

Security & Maintenance for stable operation

AIDOT provides below services for '24 hours a day, 365 days a year'

- 1 Monitoring service.
- 2 Error system management service.







Deep learning AI system specialized for cervical cancer screening



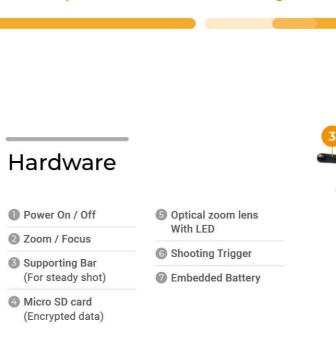
Possible for both on-site and remote reading

within 5 min within 24 h



The effect of improving reading accuracy and shortening patient waiting time

Composition of Cerviray Al







The screen can be adjusted up to 15°



Tripod setting is

11111

11111



*The tripod is not included in the basic product components

Software (Screen)





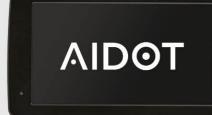








Result screen





AIDOT

CervirayAl®

Cerviray AI is an artificial intelligence-based cervical cancer screening

Even for inexperienced medical specialists and practitioners, they are now

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specialized for cervical cancer screening

Possible for both on-site and remote reading

within 5 min within 24 h



The effect of improving reading accuracy and shortening patient waiting time Final evaluation by medical professional

AIDOTNet v1.0 (A.K.A CerviAID v1.0)

Product **Features**

- Al-Based cervical cancer on-site & telemedicine system
- Portable cervicography with AI Software
- Pre-acquired IRB approved database from Korean top medical centers (Korea Univ. Anam and Bundang Seoul National Univ. hospitals)
- Al's main functions are 'Detection & Classification' for cervical cancer
- Applied AIDOT's patented AI algorithm 'AIDOTNet v1.0' Sensitivity 93%, Specificity 89% (AUC 0.944)+ AI Software

Artificial Intelligence

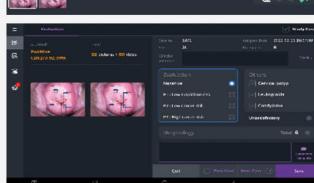
Through joint research with top medical centers in Korea, AIDOT has developed patented algorithm, AIDOTNet v1.0.

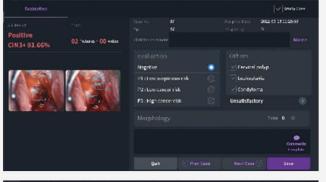
It is specialized in cervical cancer detection which can be recognized as the fruit of the know-how for the best Korean Gynecologic Oncologists.

Cerviray AI is applied with a four-stage Classification algorithm(Normal, CIN1, CIN2-3,CIN3+) that informs the risk of cancer and the detection algorithm that detects abnormalities in the cervix.

Al Detection (Detection abnormalities on cervix)









Telemedicine

Cerviray AI service has realized a non-face-to-face remote solution in which patients undergoing cervical cancer screening and reading doctors are separated from each other.











Final evaluation by medical professional through on-site or telemedicine



Al server

Sensitivity (93%

AUC 94.4%

Step 05

If there is any abnormal finding, proceed with diagnosis and treatment by a specialist after biopsy.

Al Classification

Through total four colors of results screen on Cerviray AI, both doctor and patient could recognize patients' medical status easier and faster than before



NORMAL



Cervical intraepithelial neoplasia grade 1, mild

dysplasia,





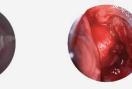
Cervical intraepithelial





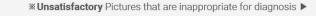


Cervical intraepithelial









Specification of Cerviray Al®

O HW spec.

Model name. CDC -C02

SPECIFICATION	TECHNICAL DATA		
Display	5"720*1280 IPS LCD + Touch Screen		
Image Sensor	1/2.8 8.29 Mega -pixel CMOS Image Sensor		
Zoom	Optical3X ~5X		
Focus	Auto+Manual		
F No	F3.2 ~F3.7		
Effective image Circle diameter	Ø 5.9 2mm		
Distance Sensor	TOF		
CPU	Dual core ARM cortex-A7 CPU		
RAM	DDR3 2G RAM		
	Total Control		

O Al Software spec.

Model name. CERV-P-k01, CERV-E-k01

PLATFORM	SPECIFICATION	NOTE
os	Windows Vista SP2 or later Android 8.0 or later	Compatible with both PCs and tablets
.Net framework	4.0 or later	
CPU	Intel Dual core or higher	-:
Memory	1GB or more	-
Storage	1GB or more	2
Resolution	PC version: Variable type Android Version: 1920 x 1200	-:
Al Framework	TensorFlow	-
Al Network	AIDOTNet v1.0 (A.K.A CerviAID v1.0)	Self-developed AI specialized for cervical cancer screening Sensitivity: 93% / Specificity: 89%



