

Stop TB Partnership

Radiography Healthcare
Industry Company

OTOM
ORIGINAL TO MAJOR

No.1 Radiography Healthcare
Industry Company

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NOOKA
a Companion for a Healthy Life



PORTABLE X-RAY SYSTEM MINE ALNU

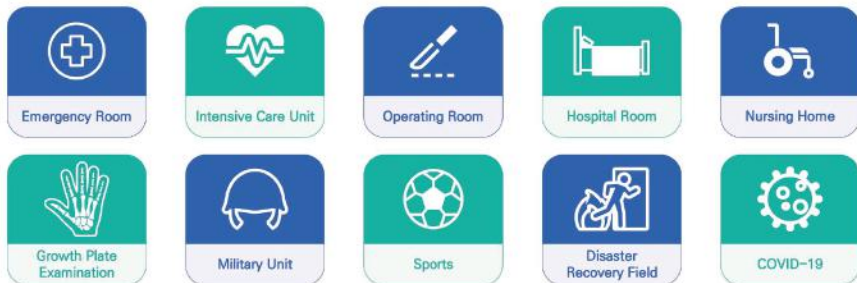
With "MINE ALNU", you can see clear X-ray images.

40-80kV
3mA



It's actual X-rays, took with "MINE ALNU"

Applications



"On-Site Medical Service using Portable Diagnostic X-ray System" Regulatory Sandbox Korea For Digital Healthcare System

| Beginning | Process | Final |
|--|--|---|
| 2019.08 | 2020 | 2021.08 |
| Selected as a participant. | Special Regulatory Demonstration Project in 15 different sites. Approved and performed(2019 – 2021). | Regulatory change granted upon approval by Ministry of Health and Welfare of South Korea. |
| | Sites includes: Military Bases, Community Health clinics and its substations. | |
| | Final analysis carried out by radiologists and experts of "Association of radiation protection" | The Only X-Ray Device Permitted to be used outside. |
| Numerous reports submitted by the users and evaluated by the national institute based on its actual performance data and significance. | | |

Chest X-ray Dose

| General X-ray equipment | Portable X-ray "MINE" |
|-------------------------|--------------------------|
| 0.1mSv | 0.004mSv (70kV, 0.5s) |
| 25 Times Less | |

| kVP | mA | Exposure Time | Effective Dose |
|-----|----|---------------|----------------|
| 70 | 3 | 0.5 | 0.004 |
| | 5 | | 0.008 |
| | 7 | | 0.011 |
| | 10 | | 0.016 |
| | 20 | | 0.036 |

(*FSD 100cm, Filtration 2.7mmAl, the result values are based on the theoretical calculation)

Leakage Dose

*Testing performed by Korean Testing Certified Institute (KTC)
Testing report number: KiYoung2021-00046



During the normal operation of X-ray, it measures the absorbed dose using an RF sensor at a distance of 95cm from the exterior (5 sides) of the product.

Performance

Hospital & Clinic



Patient's room



Operating Room, Laboratory



COVID-19 Screening Clinic



Defense Field Army Management Headquarters, Marine Corps



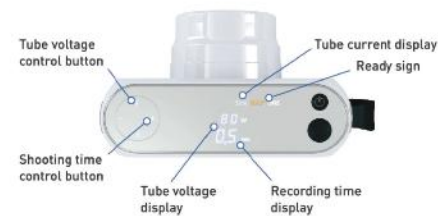
MINE ALNU

Medical Portable X-ray

FDA CE Certified



KEY FEATURES



SAFETY FEATURES

- Adjustable tube voltage, exposure time.**
 - The voltage or exposure time can be adjusted according to the body parts or the age of the subjects allowing excess radiation exposure avoidance.
- Distance Measuring Sensor**
 - The distance from the X-ray target surface to the X-ray focus measured by the distance sensor is displayed. The distance should be over 15 inch for the activation.
- Additional Copper Filter for Pediatrics**
 - 3.5 mmAl for lower radiation exposure
- LCD Real-time Monitor**
 - The target is displayed in real-time for more precise aim.
- Wireless Remote**
 - The radiologists or doctors can secure the distance from the generator.

Portable X-ray "MINE ALNU" System



KEY SPECIFICATION

| | |
|---------------------|-------------------------|
| Input power | 50/60 Hz, 1.0A |
| Output power | 120W ~ 240W |
| Type | High Frequency Inverter |
| Tube Voltage | 40 ~ 80kV |
| Tube Current | 3mA |
| Exposure Time Range | 0.1sec ~ 1.3sec. |
| Focal Spot Size | 0.4mm |
| Weight | 3.0kg |