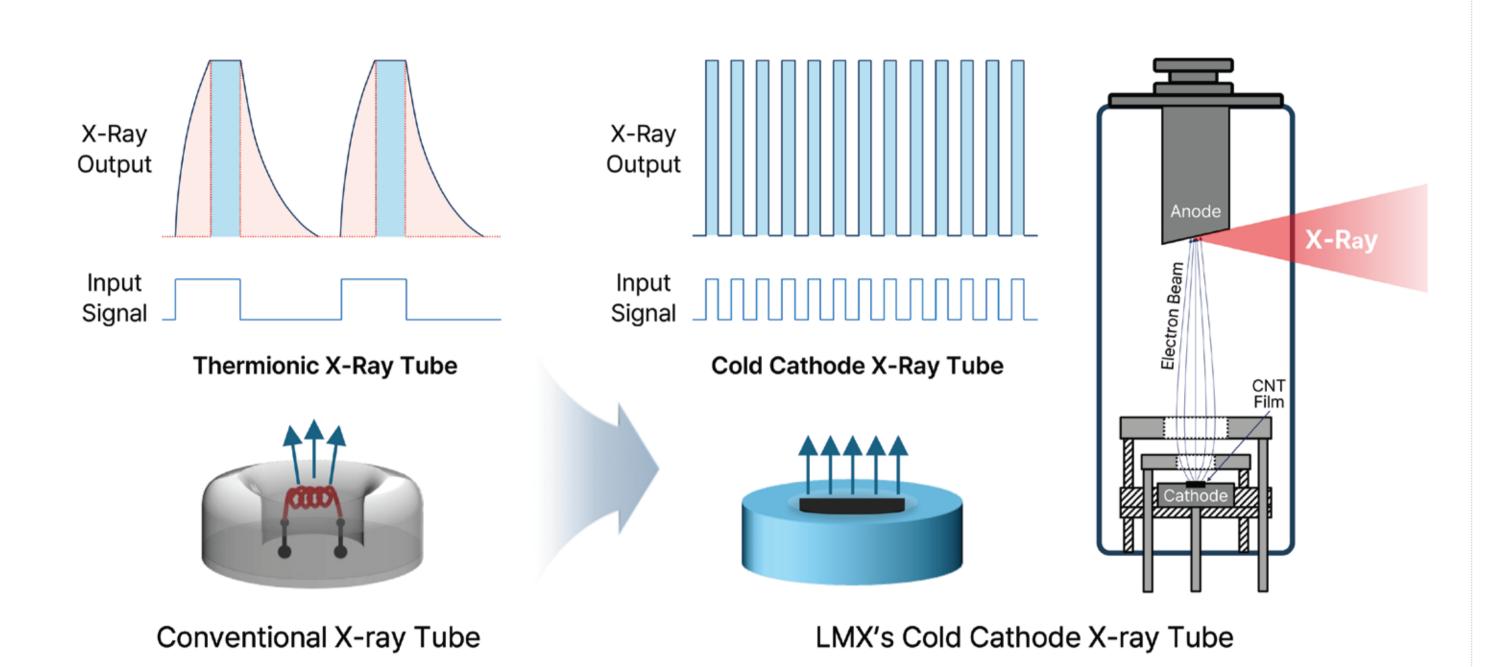
CNT Cold Cathode X-ray Tubes with 5.5 kW Power Rating

■ Next-Generation X-Ray Imaging Technology



Advantages of cold cathode X-ray tubes over conventional X-ray tubes

Low
Unnecessary
Radiation
Exposure

Low Operating Energy

High Operating Speed

Easy
Dose
Control

Multi X-ray Source

Digital Cold Cathode X-ray Tubes



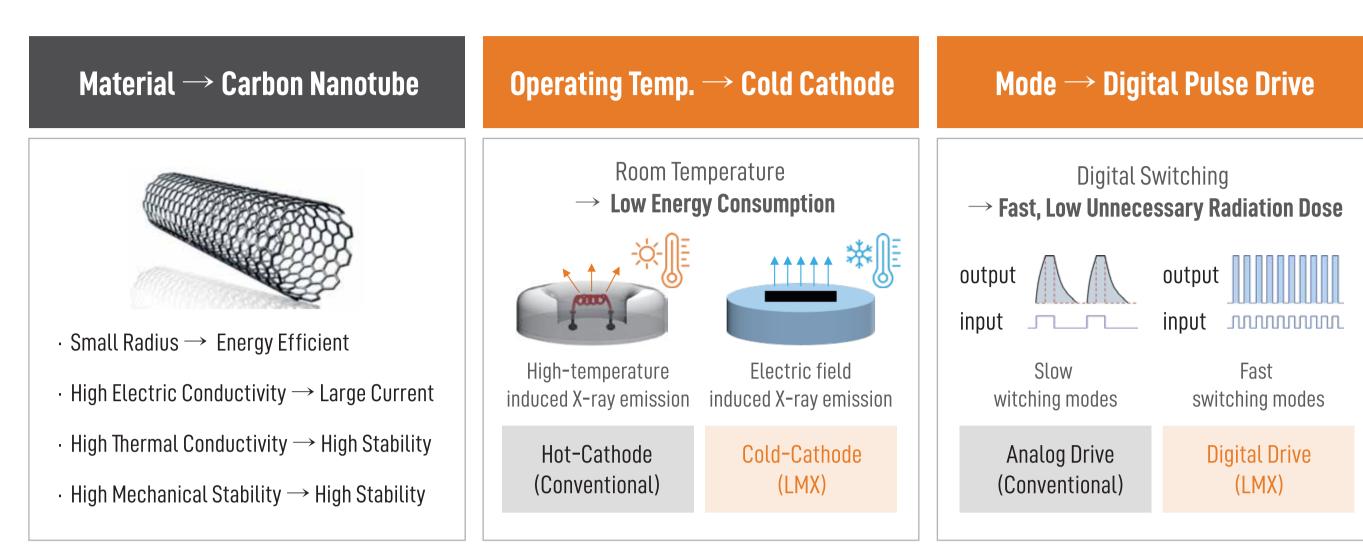
Cold Cathode X-ray Tubes Applicable to Various X-ray Systems



Dental X-ray Tubes

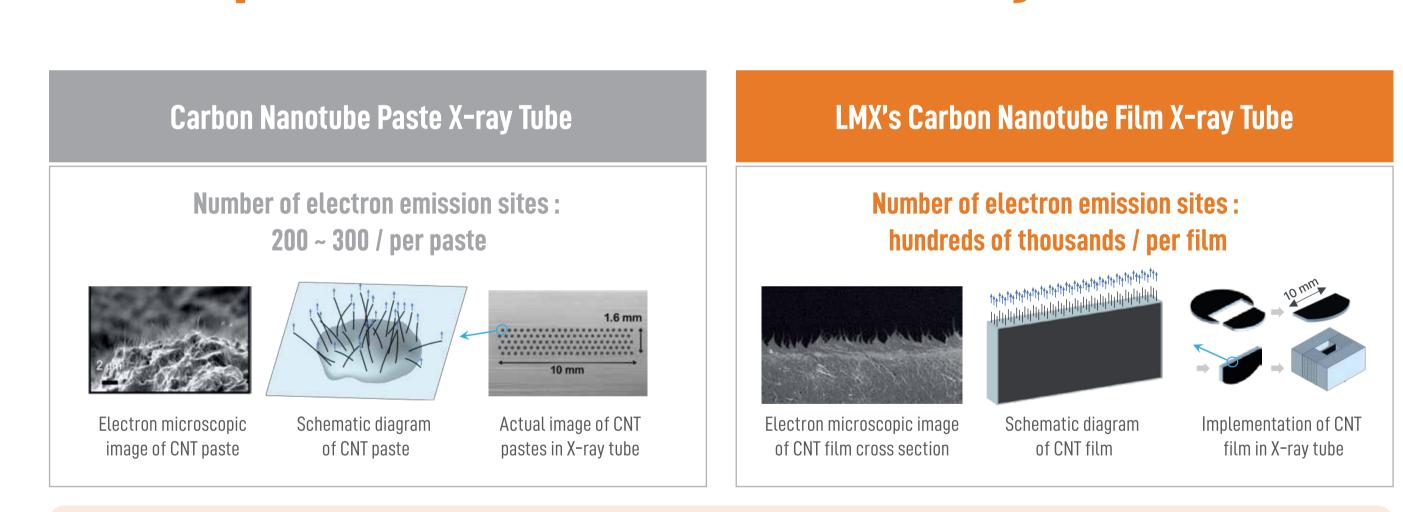
| Model | Max Current | Max Voltage | Focal Spot | Max Power Rating | Dimensions and Weight |
|-------|-------------|-------------|------------|------------------|------------------------------|
| LD-10 | 10 mA | 100 kV | 0.5 mm | 1.0 kW | arPhi 42 mm x 120 mm, 350 g |
| LD-20 | 20 mA | 100 kV | 0.5 mm | 2.0 kW | Φ 42 mm x 120 mm, 350 g |

Advantages of Cold Cathode X-ray Tubes over Conventional X-ray Tubes



| | Conventional Systems (with hot-cathode tube) | Next-gen Systems (with cold-cathode tube) | Advantages of Next-gen Systems |
|----------------------------------|--|--|--|
| Unnecessary Radiation Dose | High | Low Health benefits / increased frequency of X-ray examination | |
| Energy Consumption | High | Low | Potential to create new markets for battery-powered systems |
| Operation Speed | Slow | Fast | Enhanced image recolution and increased accuracy in treatments |
| Drive Method | Analog | Digital | Enhanced image resolution and increased accuracy in treatments |
| Multi X-ray Source Capability | Difficult | Easy | Cost-effective CT implementation possible |

■ Comparison of Cold Cathode X-ray Tubes



High X-ray dose, high X-ray uniformity, high resolution , simple structure ightarrow Favorable for use in medical diagnostic X-ray systems

| | CNT Paste X-ray Tubes | CNT Film X-ray Tubes | Benefits of Systems with LMX's X-ray Tubes | |
|-------------------|---------------------------------------|----------------------------|--|--|
| X-ray Dose | Low | High | Wide medical diagnostic range | |
| X-ray Uniformity | Low | High | Precision diagnostic applications | |
| Beam Focal Spot | Large | Small | High resolution | |
| Structure | Complex | Simple | High stability and manufacturing yield | |
| Application Range | Limited to portable intraoral systems | Medical and dental systems | Applicable in various diagnostic fields | |

■ Medical X-ray Tubes

| | Model | Max Current | Max Voltage | Focal Spot | Max Power Rating | Dimensions and Weight |
|---|-------|-------------|-------------|------------|------------------|------------------------------|
| - | LM-10 | 10 mA | 120 kV | 0.5 mm | 1.2 kW | arPhi 42 mm x 120 mm, 350 g |
| | LM-20 | 20 mA | 120 kV | 0.5 mm | 2.4 kW | arPhi 42 mm x 120 mm, 350 g |
| | LM-30 | 30 mA | 120 kV | 0.5 mm | 3.6 kW | Φ 42 mm x 120 mm, 350 g |
| | LM-50 | 50 mA | 120 kV | 0.5 mm | 5.5 kW | arPhi 42 mm x 120 mm, 350 g |

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