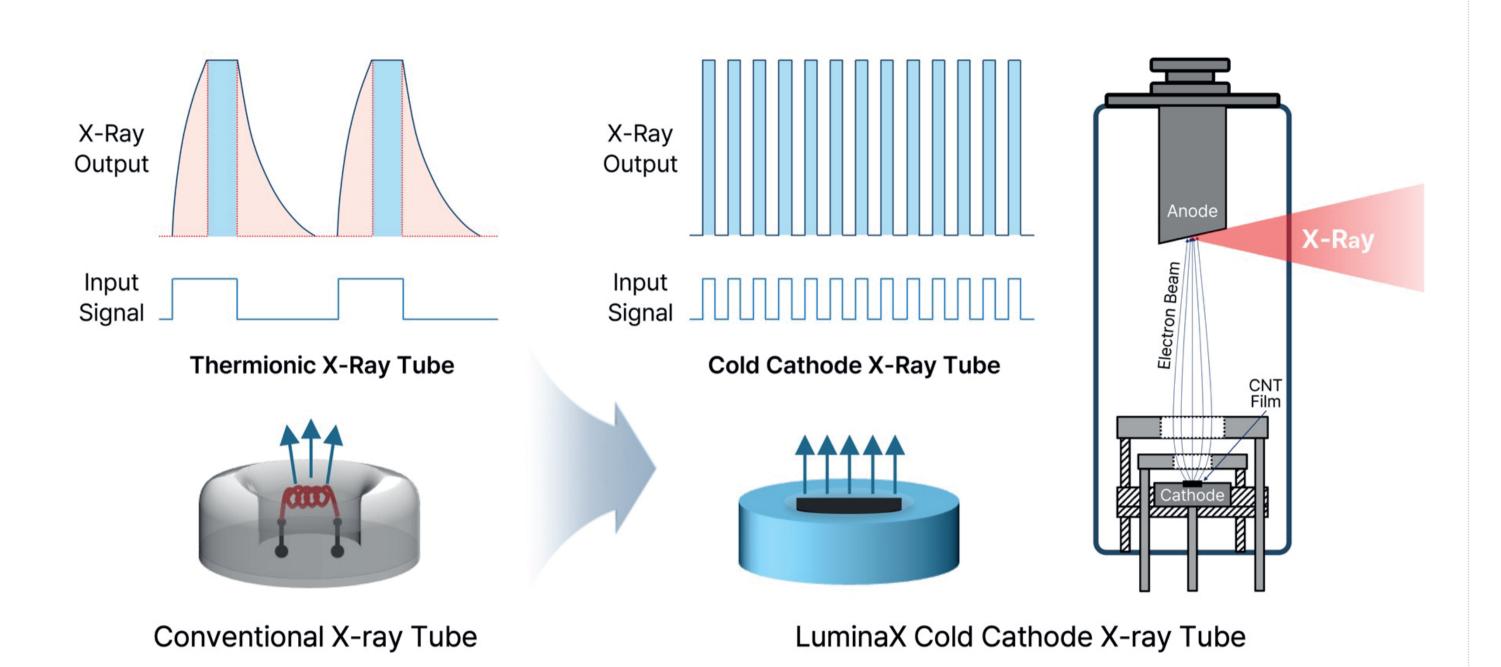
Cold Cathode X-ray Tubes with 5.5 kW Power Rating

■ 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



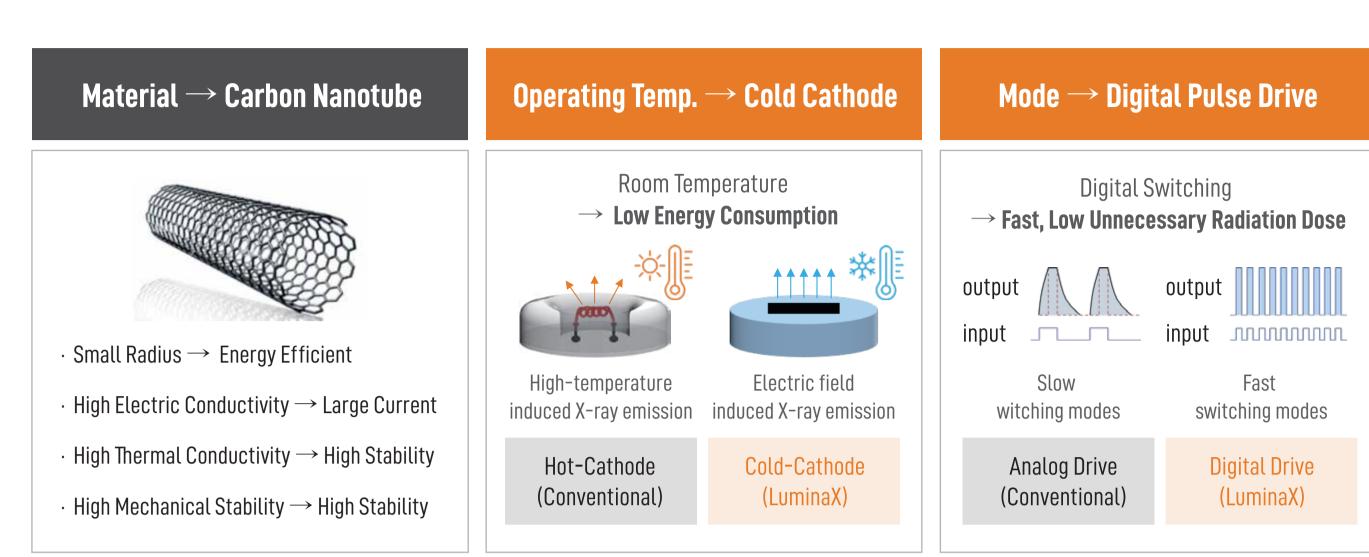
Cold Cathode X-ray Tubes Applicable to Various X-ray Systems



Dental X-ray Tubes

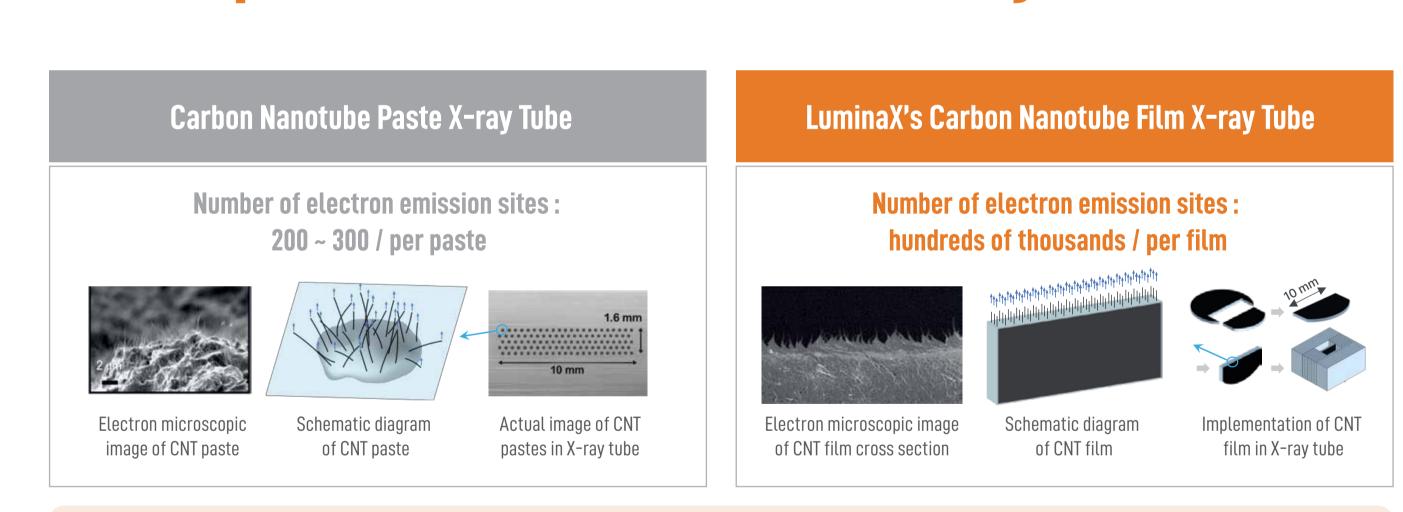
Model	Max Current	Max Voltage	Focal Spot	Max Power Rating	Dimensions and Weight
LD-10	10 mA	100 kV	0.5 mm	1.0 kW	arPhi 42 mm x 120 mm, 350 g
LD-20	20 mA	100 kV	0.5 mm	2.0 kW	Φ 42 mm x 120 mm, 350 g

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 Equipment with LuminaX'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	arPhi 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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