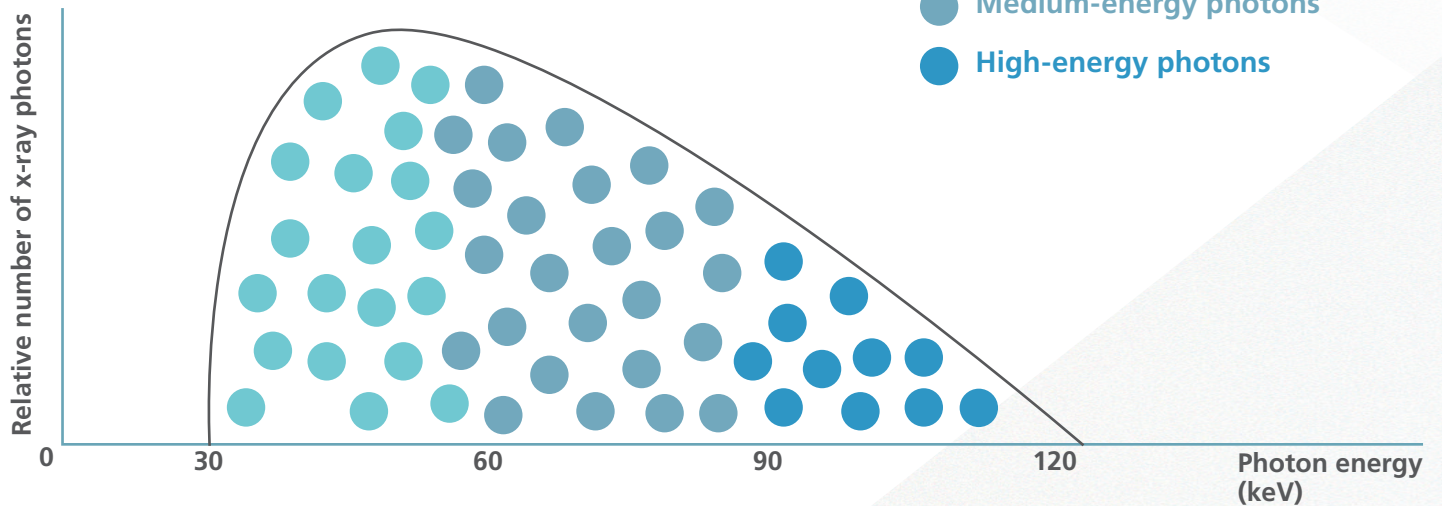


HOW 120 KV SCANS BENEFIT YOUR IMAGES

An X-ray beam is Polychromatic
(made of different energies)

- Low-energy photons
- Medium-energy photons
- High-energy photons

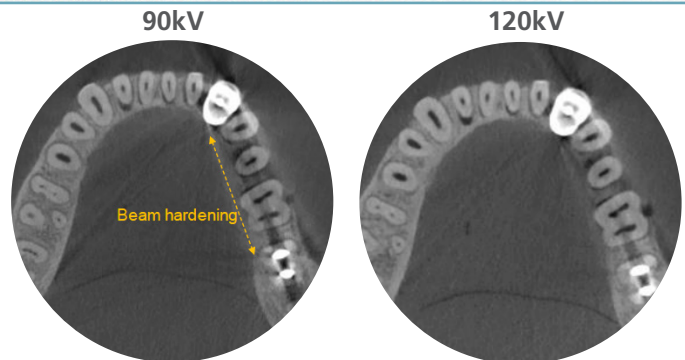


Low-energy photons mainly contribute to patient risk by being absorbed by the skin without reaching the sensor.

Medium-energy photons are partly absorbed and partly able to reach the sensor contributing to image production.

High-energy photons travel through the patient, even dense structures (e.g. cortical bone), therefore, contribute to producing an image.

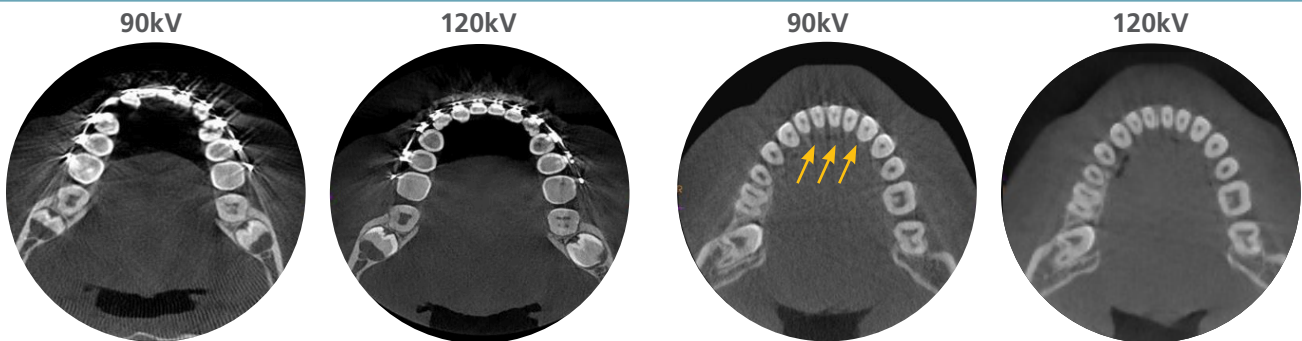
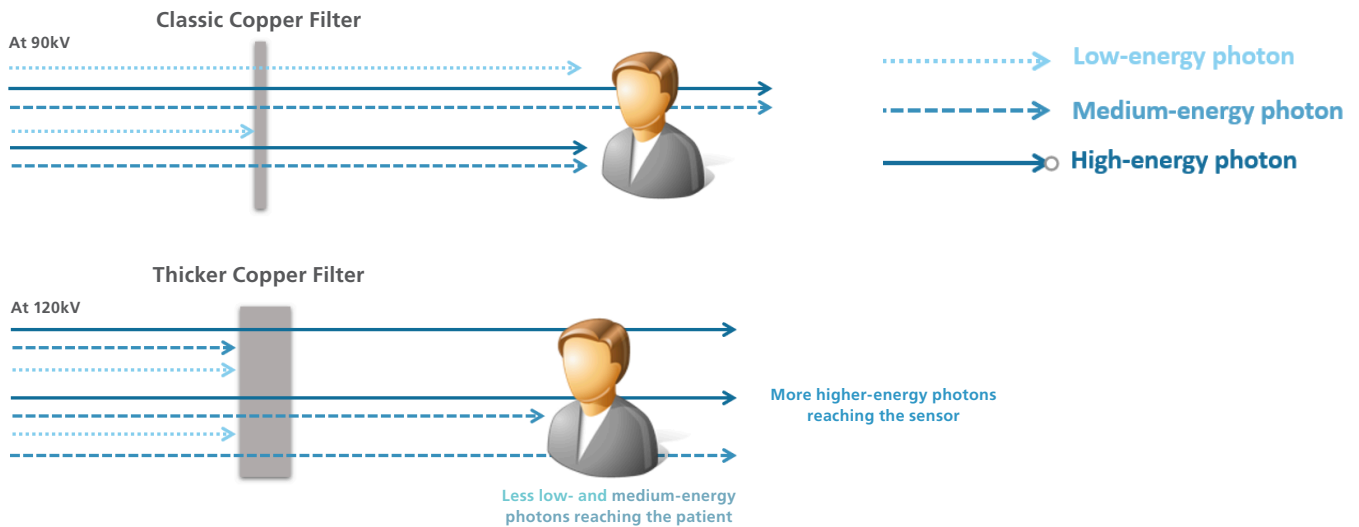
Low- and medium-energy photons cause beam hardening between dense structures, like metallic crowns, inlay cores and implants. This is represented by loss of data between dense structures





The CS 9600 addresses this issue. By using a thicker copper filter and shooting at 120 kV, the CS 9600 mainly reduces low and medium energy photons that reach the patient and enables only high-energy photons to hit the sensor.
The result: lower dose area product and higher image quality.

Other companies offer systems with 120 kV. Only the CS 9600 enables users to adjust the filtration based on their diagnostic needs.



At 120kV, there is reduction in beam hardening and metal artifacts.

To learn more, please visit carestreamdental.com/9600config or call 800.944.6365.