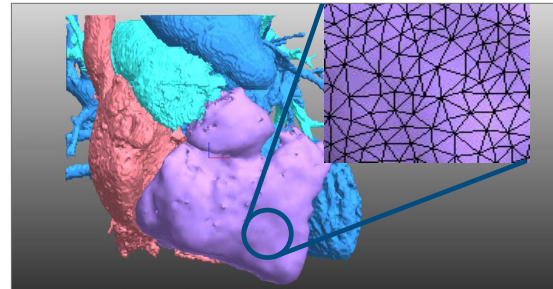# MEDIP PRO

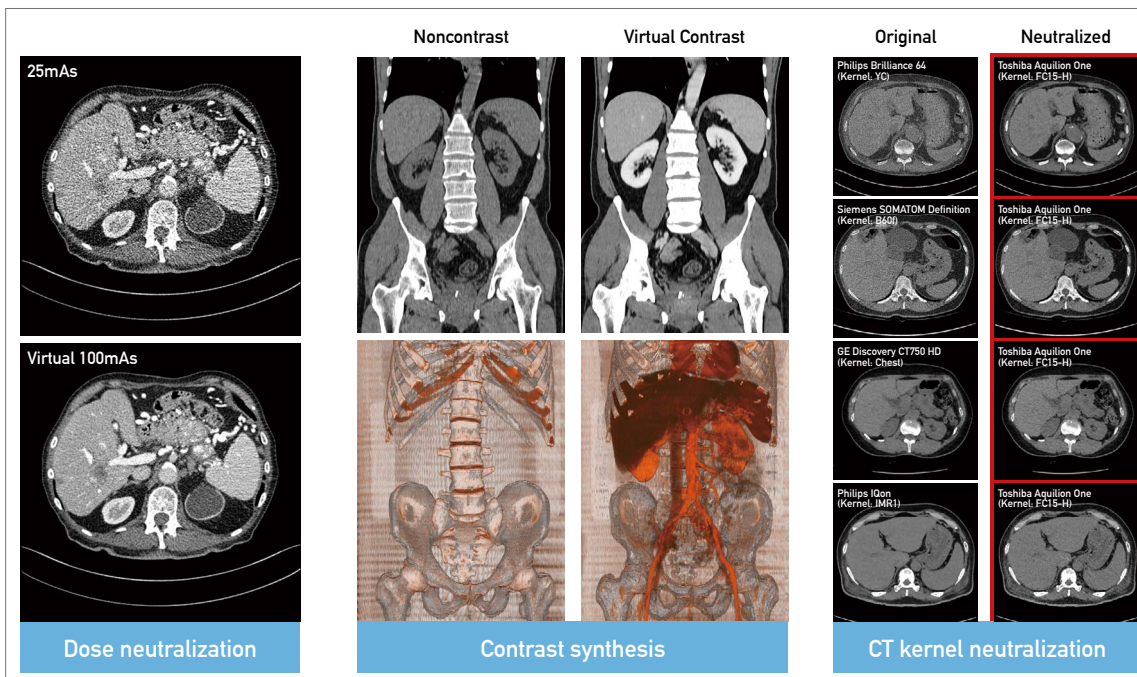## Powered Tool for Digital Twin

AI-Powered Tool
for Medical Image Segmentation

One-Stop Tool
for 3D Mesh Design & Modeling

| | Noncontrast | Virtual Contrast | Original | Neutralized |

25mAs

Virtual 100mAs

Dose neutralization

Contrast synthesis

CT kernel neutralization

Vendor / Protocol-Free of Image Enhancement

MEDICAL IP

Cloud version will be available in the Amazon Marketplace next year in collaboration with AWS.

MEDIP PRO X

MEDICAL IP's AI-Powered Medical Image 3D Reconstruction S/W, MEDIP PRO
meets NVIDIA's OMNIVERSE Platform & CLOUDXR
to build Medical Metaverse Contents & Digital Twin Pipeline.
This is the world's first powerful platform for building
your own Medical Metaverse.

MEDIP PRO X

MEDIP-enabled medical digital twinning in NVIDIA OMNIVERSE

MEDICAL IP

MEDIP PRO-enabled medical digital twinning in
NVIDIA OMNIVERSE

MEDICAL IP X NVIDIA OMNIVERSE

MEDICAL IP establishes a vertical integration of technologies in the FDA-approved MEDIP PRO software for the multimodal materialization of patient-specific anatomy ranging from medical image processing, AI automated volumetric segmentation, CAD/CAM modeling, and visual and 3D printing to augmented and virtual reality.
NVIDIA OMNIVERSE is NVIDIA's cutting-edge real-time 3D graphics platform for facilitating digital twinning. MEDICAL IP and NVIDIA collaborated to introduce medical image-driven digital twinning in the OMNIVERSE platform.

The collaborative innovation enables rapid prototyping of medical image-driven digital twins offering a state-of-the-art realistic rendering, various physical simulations, and multi-user connections.

The world's first powerful workflow for building your own Medical Metaverse

■ **Medical Open Network for Artificial Intelligence**
- A set of open source collaboration frameworks available for free

NVIDIA OMNIVERSE Platform
Large-scale virtual world building platform based on Universal Scence Description(USD)

aws

MONAI⁺

MEDIP PRO

CONNECTOR — MAYA / UNREAL ENGINE / MEDIP PRO

OMNIVERSE NUCLEUS

■ **AI-Powered Tool for Medical Image Segmentation**
■ **One-Stop Tool for 3D Mesh Design & Modeling**
■ **Vendor / Protocol-Free of Image Enhancement**

■ **MEDIP PRO Connection Plugin Development**
- MEDIP CONNECTOR can connect MEDIP PRO and Omniverse Platform in USD and MDL formats.

■ **Database and Collaboration Engine**
- Use multiple applications at once
- Live connections from multiple users

CREATE

VIEW

■ **CREATE | VIEW**
- Ray tracing rendering using RTX
- Physics simulation using physX

NVIDIA CLOUDXR

■ **CLOUDXR Platform**
- NVIDIA's solution for streaming VR, AR and MR contents
- Seamless stream to XR devices without data loss

MEDIP PRO : User A
MEDIP PRO : User B

MEDIP PRO

■ **DIGITAL TWIN**
- AI-powered digital twin software with real-time colloboration

WORK STATION

AUGMENTED REALITY

VIRTUAL REALITY

WEB BROWSER