

The top half of the image features a blurred background of a medical X-ray suite. A person in light blue scrubs is standing near a large, white mobile X-ray unit. In the foreground, a white desk holds two Philips monitors. The left monitor displays a software interface with various toolbars and a dark central area. The right monitor shows a high-contrast, black and white X-ray image of a human torso, specifically the abdominal region, with dark, irregular shapes indicating internal structures. A keyboard and a mouse are positioned in front of the monitors. A small, black, gooseneck-mounted device is on the right side of the desk.

PHILIPS

Dynamic **UNIQUE**

Diagnostic X-ray

Dynamic UNIQUE

The clarity you seek

Key advantages

- Superb detail visibility with real-time image de-noising
 - Comfortable live viewing with immediate brightness stabilization
 - Excellent detail enhancement with overall contrast harmonization
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Dynamic UNIQUE is a real-time image processing technology from Philips that addresses the diagnostic challenges of fluoroscopic X-ray examinations through image enhancement and intelligent noise suppression.

With Dynamic UNIQUE, you will experience clarity of detail for exceptional diagnostic confidence from the first frame to the last.

Diagnostic information for each frame is displayed in real-time at optimal brightness. Image representation is consistent and stable even when the image content varies rapidly.

Advanced digital image processing for **clinical excellence in fluoroscopy**

Superb detail visibility with real-time image de-noising

Low-dose fluoroscopy settings can result in noisy images, making it difficult to see details. As a consequence, longer fluoroscopy times may be necessary to achieve a confident diagnosis.

Dynamic UNIQUE's real-time temporal and spatial noise suppression preserves anatomic detail. There are no artifacts of moving structures, no lag effects, and no shadows of catheters, tubes and lines. As a result, you are less likely to miss critical details.

Comfortable live viewing with immediate brightness stabilization

Due to patient movement, image brightness may be unstable with conventional image processing. These undesired brightness variations may tire your eyes during an examination and result in difficulty observing the whole image immediately.

Dynamic UNIQUE's brightness stabilization provides suitable adjustment of contrast and brightness in real-time for each frame. This promotes comfortable viewing, enhanced diagnostic confidence, and faster workflow, reducing the risk to reacquire.

Excellent detail enhancement with overall contrast harmonization

Areas that are too bright or too dark make diagnostically relevant details, such as small vessels and catheters, hard to see. This is difficult for confident decision-making. Dynamic UNIQUE harmonizes areas of diagnostic importance – even in challenging viewing conditions. Each and every frame is fully processed in real-time and optimally enhanced. There are no enhancement artifacts, no image clipping and less risk to miss important details.*

Tangible benefits

Dynamic UNIQUE meets the challenges of modern fluoroscopy by combining robust, artifact-free, multiscale image enhancement with intelligent noise suppression. Designed to support fast and safe low-dose examinations, Dynamic UNIQUE gives you confidence through clarity.



Original image with
conventional image processing

Dynamic UNIQUE provides much
higher level of detail in all image
areas in real-time from the first frame
to the last

“ Dynamic UNIQUE image processing software harmonizes contrast. It also enhances faint details and creates uniform image quality, which enables us to clearly tell the difference between bones and soft tissue. ”

Dr. Paul Molitor, Radiologist
Centre Hospitalier du Nord, Luxembourg

For more information on Dynamic UNIQUE, Philips has authored a whitepaper titled, Advanced digital image processing for clinical excellence in fluoroscopy. To receive your complimentary copy, contact your Philips Sales Representative.

* On routine clinical image data with standard image processing settings.

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