



# NEONATAL IMAGING



## AMX™ Navigate

MOBILE X-RAY FOR YOUR PEDIATRIC IMAGING NEEDS  
EXTRAORDINARY RESOLUTION, FINE DETAILS AT LOW DOSE

[gehealthcare.com](http://gehealthcare.com)





## Children are at increased risk of radiation during their lifetime

Children exposed to radiation are susceptible to increased risk of radiation during their lifetime as compared to adults. In fact, for some radiation-induced cancers, children are more vulnerable than adults. Recent reviews report that (in general) children might be two or three times more sensitive to radiation than adults.<sup>2</sup>

**2-3x** Children may be **two to three times<sup>1</sup>** more sensitive to X-ray radiation than adults

## The balance between quality and dose

AMX Navigate provides seamless support for carefully controlled neonatal environments. Its small tube design can easily be positioned and its nimble, quiet (50-60 dBa) operation helps to minimize disruptions.

### MOBILITY & EXAM PREP

- Quiet Drive - Minimal noise**
- Small and quiet tubehead**
- Small footprint and easy maneuverability**
- Free Motion telescoping column**
- QuickCharge:**  
"On the go" FlashPad HD charging
- RFID Badge Swipe**
- Barcode reader:**  
Patient identification

### IMAGE ACQUISITION

- 2 FlashPad™ HD Detectors**  
Large (14" x 17")  
Small (10" x 12")
- 10" x 12" Pediatric detector for incubator**
- More pediatric protocols:**  
Various patient sizes
- QuickConnect:**  
Adaptive Wireless Connectivity (802.11)
- QuickShare:**  
In-bin registration and easy sharing
- Auto Protocol Assist**  
Automatically assigns protocol to exam

### IMAGE PROCESSING

- Helix™ Advanced Image Processing with AIBC**
- QuickEnhance:**  
1-touch image processing

### IMAGE REVIEW

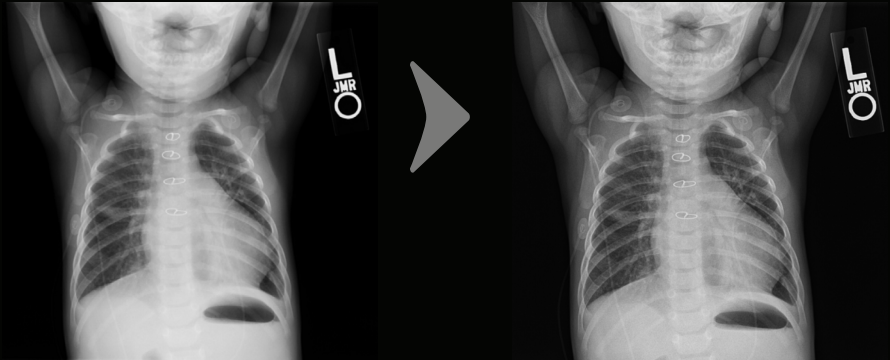
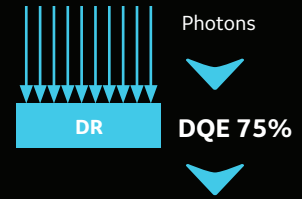
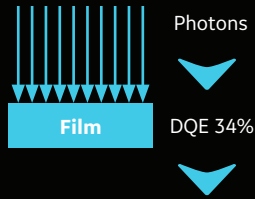
- 21.5" Monitor with glare reduction**
- Radiation Dose Structured Reporting (RDSR)**
- Repeat-Reject Analysis**
- X-ray Quality App (XQA)**

### EXAM CLOSE

- PACS export**
- Dose reporting:**  
DICOM® Export
- HIS RIS Link:**  
Browser access to RIS/PACS

← Zero-Click Exam →

**Detector with higher resolution and DQE means better detectability of features and more efficient use of X-ray**

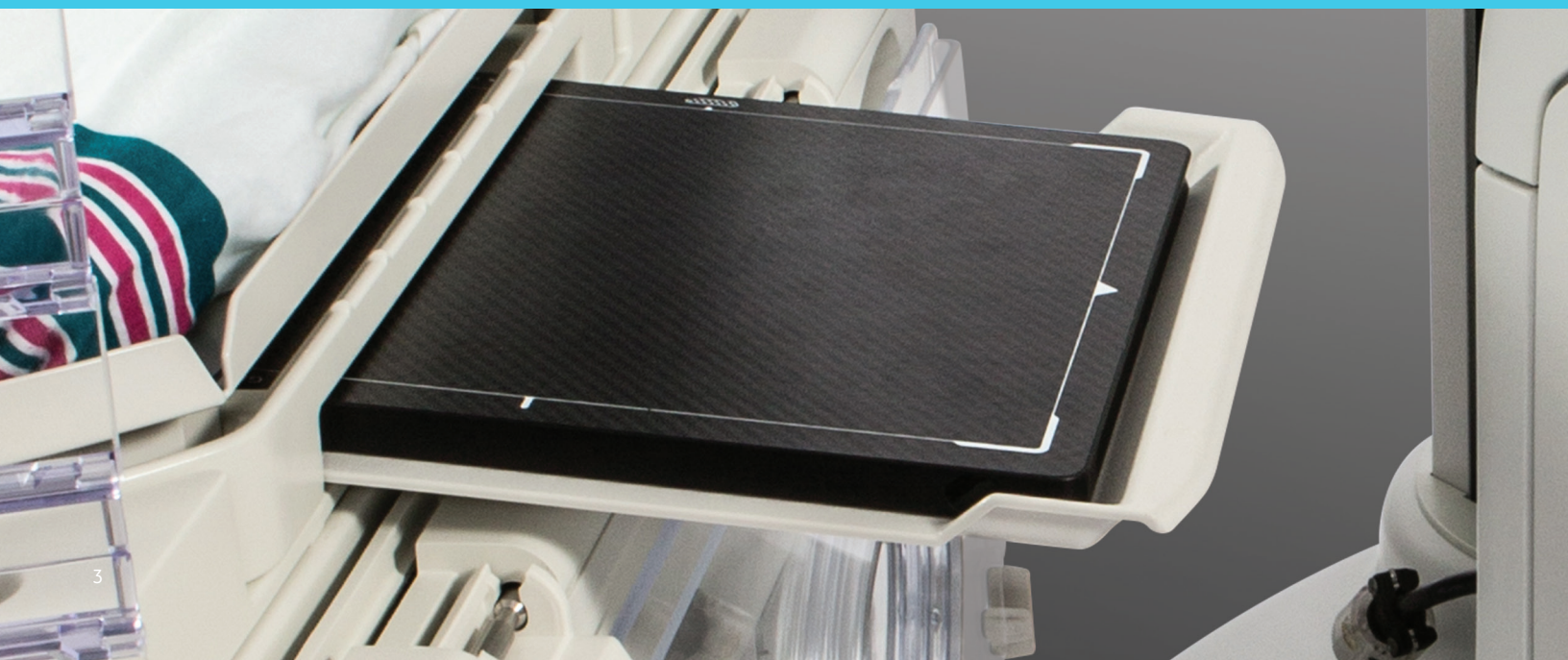
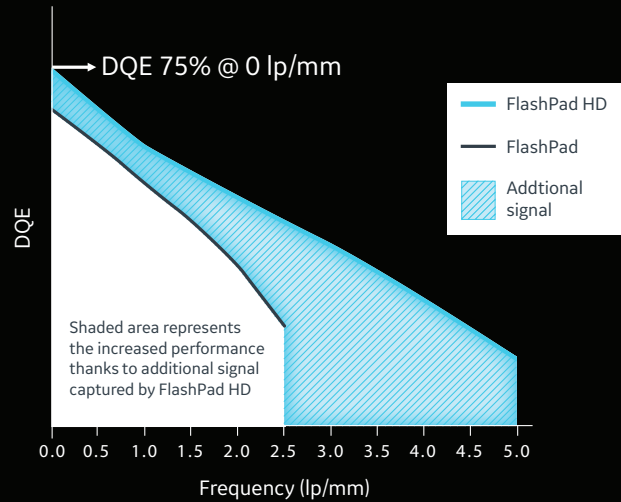
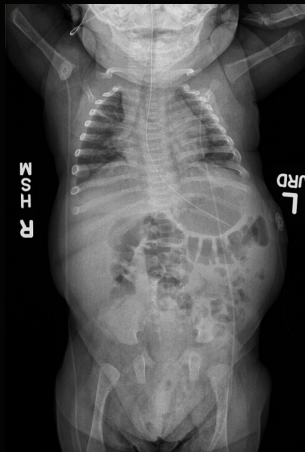


QuickEnhance  
one-touch reprocessing  
for line visualization

**Exceptional dose efficiency for your tiniest patients**



Low dose for your  
most sensitive  
patients



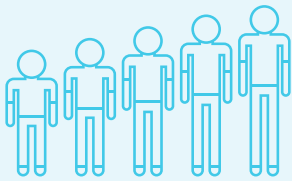
# More pediatric protocols

The new AMX Navigate offers five pediatric protocols according to the size of the patient. When a patient is selected from the worklist, the system automatically recognizes the type of exam and displays the appropriate protocol.

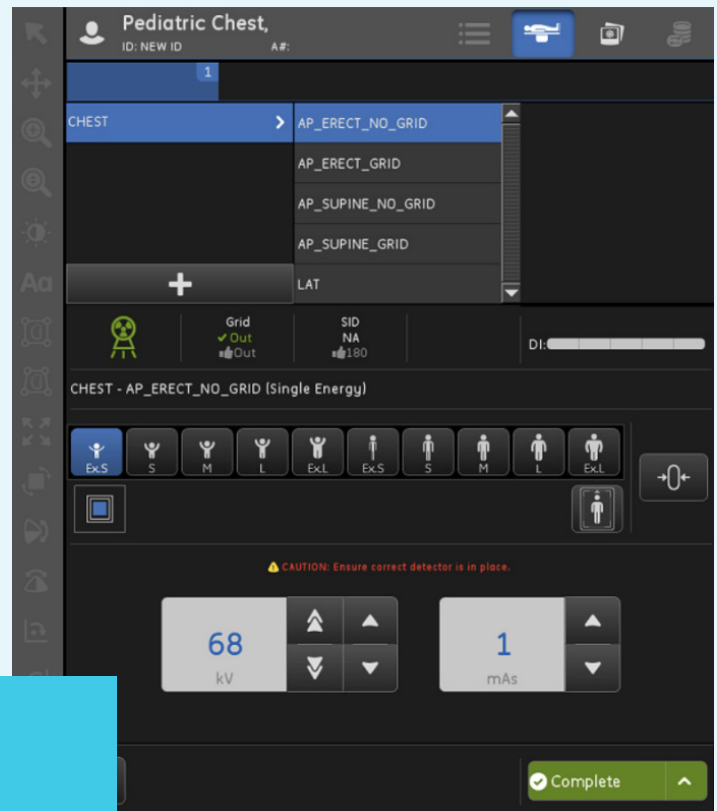
Based on the protocol selected, the kVp and mAs is automatically adjusted. Use the appropriate pediatric protocols to avoid over exposure.

- Pediatric Extra Small
- Pediatric Small
- Pediatric Medium
- Pediatric Large
- Pediatric Extra Large
- Adult Extra Small
- Adult Small
- Adult Medium
- Adult Large
- Adult Extra Large

We encourage you to work with your Radiologist and Physicist to determine the lowest possible dose for the desired image quality.



Pediatric protocols can be adjusted to five different pediatric patient sizes



## Benefits

- One step exam set-up
- Potential to reduce errors
- Decreases exam set-up time
- Streamlines patient throughput

# Customizable design



# Small footprint and low noise

## An agile system for swift rounds

Hospital corridors can be crowded places, full of people and equipment. Whether you are traveling from one department to another or one room to another, you need equipment that matches your pace.

Designed with hospital rounds in mind, AMX Navigate is easy to maneuver. Its small footprint allows you to fit in the tightest spaces. And automatic charging algorithms allow it to recharge at any charge level and at any time, even during exposures. This ensures the long battery life you need to make it through your entire round without interruptions.



Maneuverable positioning



50-60 dBa  
Normal conversation

110-120 dBa  
Loud car horn

Quiet 50 to 60 dBa operation makes AMX Navigate low noise and helps minimize disruptions for patients in the NICU



# Technology that lives up to the AMX name

When we first introduced our AMX mobile X-ray systems, they quickly made a name for themselves as hardworking, long-lasting and reliable systems.

This latest system improves on that reliability with additional features and services. InSite™ gives you on-the-spot access to our service professionals with predictive service support and remote application assistance. Optional web-based solutions, such as Edison Applied Intelligence featuring the X-ray Quality Application, make it easier to manage your X-ray investment. We also made it easier to upgrade your current system to the latest technology with our in-field upgrade program. Together, these features and services make AMX Navigate a reliable, long-lasting investment that lives up to the AMX name.



**References:**

1. World Health Organization (WHO, Communicating Radiation Risks in Pediatric Imaging, 2016 | (UNSCEAR, 2000; UNSCEAR, 2010).
2. ICRP, 2012; UNSCEAR, 2013.



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June 2022  
JB83505XX