PORTABLE X-RAY BUYERS GUIDE



- Our Mission
- What You Need to Know
- Understand Pricing and Options
- Complete Refurbishment
- Your Portable X-Ray Options
- Comparison Charts
- Facts and Figures

- Our Process
- We Are Your Specialists
- Things We Will Guide You Through
- Different States, and Regulations
- The Amber Benefit
- Amber's Promise



 Refurbished Radiology Equipment ~ Since 1994

 1.888.561.7900
 1.407.438.7847

 www.AmberUSA.com

Portable X-ray Buyers Guidebook



Amber Diagnostics Inc. created the Buyers Guide Book to help you understand and address common concerns before making an investment in purchasing a Portable X-ray System. With over twenty years in the medical imaging equipment industry, we have applied our knowledge, research, and experience to compile general information in regards to Portable X-ray System.

Of course, we are always here to answer any questions you have along the way! Our goal is to ensure you have a convenient reference at hand, giving you the wisdom and confidence to go forth in purchasing medical equipment that will be an ideal fit for your practice and your budget.

Table of Contents

- Our Mission
- What You Need to Know
- Understand Pricing and Options
 - Complete Refurbishment
 - Your Portable X-Ray Options
 - Comparison Charts
 - Facts and Figures;

GE Brivo XR 285 AMX, GE Definium AMX 700, GE Optima XR 200 AMX, GE Optima XR 220 AMX, GE AMX 4 Plus, Digital AMX 4, GE AMX 4, GE AMX 3.

- Our Process
- We Are Your Specialists
- Some Things We Will Guide You Through
 - Different States, and Regulations
 - The Amber Benefit
 - Amber's Promise



PORTABLE X-RAY BUYERS GUIDE

Page 1

1.888.561.7900 • 1.407.438.7847 • www.AmberUSA.com

Our Mission

When you make the decision to purchase a quality refurbished portable X-ray system you need to understand the differences between various systems. It's key to know which system you want. There are considerations from size, to aesthetics, to functions.

Here at Amber Diagnostics we pride ourselves in carrying eight different models of GE's portable X-ray systems. We will actually go over every system and try to find what's most suitable for you.

We not only help you find the best system but we ensure you get the best value for your investment. From purchase to installation we ensure the smoothest service.



If you have any questions about the different systems please feel free to gives us a call. Our team of dedicated professionals will guide you through every step of your journey.



What You Need to Know

You have made the decision to purchase a refurbished portable X-ray system. There are a few things that you need to be aware of prior to making the purchase. Below is a list of things to know:

- 1) You must know whom you are purchasing from.
- 2) Your machine must be up to code.
- 3) The service contract must cover repairs.
- 4) Your dealer should guarantee delivery and installation.
- 5) Your facility must be in compliance of all health and safety laws at a federal and state level.





It's vital that you purchase your equipment from a reputable dealer with experience and knowledge specific to the equipment you are buying. Whichever model you purchase must be fully functional and guaranteed. It's also vital to know all state and federal regulations as well.

We here at Amber Diagnostics pride ourselves on having a team of dedicated professionals with over twenty years experience. Please feel free to give us a call, we look forward to answering all your questions.

Understand Pricing and Options

When Purchasing you refurbished portable X-Ray system there are various considerations, one of them and in some cases the most important is price. Often times you will see a used machine go from anywhere between \$19,000 and \$100,000.

First thing to understand is that a used machine may not have a guarantee, reliable delivery or any sort of service contract. A refurbished unit is rebuilt and made to work as well if not better than a new unit. The big consideration with a refurbished unit is that the price you pay will come with the proper backup.

Here at Amber Diagnostics what you pay will include the following:

- 1. Proper research with an expert of the right machine for your facility.
- 2. An understanding of varying state laws and regulations.
- 3. Reliable delivery.
- 4. Assembly where needed.
- 5. A strong service contract.
- 6. Comfortable financing.

We do our best her at Amber to give you the best service at a fair and competitive price. We will not stick you with a used, possibly damaged portable X-Ray machine that could jeopardize the health and welfare of your patients.

With pricing considerations we will ensure that you receive the very best service all around.







Complete Refurbishment

Our extensive refurbishing process includes complete refurbishment of all mechanical, electrical, and computer systems. Our experienced engineers completely rebuild the system, insuring compliance with new equipment specifications. We are able to provide you with all the systems various features after refurbishment

An example of our refurbishing process includes the following:

- New 24 Amp/Hour Lead Calcium Batteries
- New column counter weight cables
- Front caster assembly
- Front caster assembly housing reinforced.
- Main frame chassis reinforcement
- All bearings inspected
- Column reinforcement kits installed.
- New high voltage and low voltage cables.
- Control panel replaced with new panel.
- Calibration to OEM and DHHS specs.
- Complete cosmetic refinishing.
- AMX Column lock assembly.
- New AMX hand switch with cable with the remote field light option.
- Optional Tech Switch remote exposure.

This is the type of knowledge and experience that you need to look for when purchasing your portable X-Ray System. We are proud to offer you over 20 years of proven experience when helping you make an informed decision on the right system for you.

Amber Diagnostics refurbishes and reassembles all GE AMX portables under a thorough electronic, mechanical and cosmetic refurbishing program.

Upgrades may include critical structural reinforcements and replacement of major cabling and control components.

Amber then calibrates and tests each system to exacting OEM standards and are backed by a comprehensive warranty on workmanship and parts.











Your Portable X-Ray Options

Often times when shopping for a specific modality you will find yourself limited to whatever your dealer carries.

A disadvantage to this is that your particular choice maybe lesser recognized in the market, have a history of issues, or not be as useful for your needs.

We have a broad selection of equipment and on top of that we make it our business to find your desired brand.

When it comes to portable X-ray it's no different and below is a list of the models we carry:

1. GE Brivo XR 285 AMX 2. GE Definium AMX 700 3. GE Optima XR 200 AMX 4. GE Optima XR 220 AMX 5. DIGITAL AMX 4 6. GE AMX 4 PLUS 7. GE AMX 4 8. GE AMX 3

This impressive list comprises out most popular sellers and most often requested models. One advantage in dealing with us is that we will not limit ourselves to popular demand.

We will listen to all your needs and help you decide based on what's best for your budget as well as your facility and patient needs.

Amber Diagnostics' world wide network of Radiology professionals and equipment dealers allows us to locate and purchase virtually any make or model of portable x-ray and medical imaging equipment.









Our proprietary refurbishing and re-assembling processes includes complete system reconditioning, stage testing that assures the systems will pass original equipment manufacturers performance specifications and FDA laws. All systems sold are available with comprehensive warranty programs. Amber Diagnostics provides expert crating, shipping, installation, user and AIAT documentation, and system training to ensure that your equipment arrives in excellent working condition.

Model	GE AMX-110	GE AMX-II	GE AMX-III	GE AMX-4
Ма	100	100	100	100
kVp	50-110	50-110	50-125	50-125
mAs	1.0-300	1.0-300	0.54-320	0.4-320
kVp Stations	12	12	24	24
mAs Stations	24	24	26	30
X-Ray Tube	MX-75 300k HU	MX-75 300k HU	MX-75 300k HU	MX-75 275k HU
Focal Spot	1.0 mm	1.0 mm	0.75 mm	0.75 mm
Generator Frequency	Medium	Medium	Medium	High
Exposure Contact	Solid State	Solid State	Solid State	Solid State

Comparison Charts for Portable X-RAY Systems

This specific comparison chart shows four specific models. The chart also shows key factors from X-Ray tubes to focal spots and generator frequency.



Facts and Figures on the GE Brivo XR 285 AMX Portable X-Ray

You have made a decision to purchase a portable X-Ray system. What are you looking for?

- 1) Reliability
- 2) Ease of use
- 3) Touch screen interface
- 4) Continuous use in busy environments

An ideal system is the GE Brivo XR285amx Portable X-Ray.

This particular system has the following advantages:

• The long battery life, shortened charge cycle time and the ability to charge while exposing enables your technologists to cover multiple floors and departments.

• Time-tested AMX technology in an upgraded design allows for easy maneuvering, user-friendly ergonomics and images.

• A smaller footprint and a more powerful generator will increase performance; helping to provide your technologists with the confidence and tools they need to do their work.

The system includes these key technology features:

- Designed to be used with conventional film or CR cassettes.
- Designed for 24/7 availability. Use with battery or make exposures while the unit is charging.

• Automatic charging algorithms allow the system to be recharged even if batteries are not fully drained.

• Average system charge time of 3 hours.

• Choose your generator power with 15kW (nominal) generator or the 30kW (nominal) option.

• System can be driven within 4 seconds of activation.

This particular system is compact, self-contained and battery operated. If you are just starting your imaging facility or merely adding another component, this is a great investment. In a hospital setting it is ideal for patients that may not have ease of mobility due to serious conditions.

We here at Amber Diagnostics will provide you with everything from information to reliable delivery once you've decided on a particular system.







Facts and Figures on the GE Definium AMX 700 Portable X-Ray

If you want a popular system with a compact and maneuverable design that allows you to focus on the patient the GE Definium AMX 700 is the one. Often times a high volume facility has to focus on optimizing work flow in order to perform multiple procedures over a short period of time. Portable machines that provide a crisp image and are easy to use are hard to find.

The GE Definium AMX 700 has ease of use and provides the following:

• Dramatic workflow enhancement with digital detector.

• Many processes are integrated and automatic increasing workflow productivity (bedside review, wireless connectivity to RIS/HIS and PACS systems, Auto Protocol Assist).

• 270 Degrees of Column Flexibility.

• Great Durability.

• High quality images are available within seconds for review.

• Has the ability to store 2000 images.

One of the many advantages is the ability to review the image on the integrated monitor. The images on the system can be easily transmitted within seconds for review at a different facility. A key advantage is that you don't have to be concerned with expensive films or cassettes with this particular system. The flat panel detector is housed in a rugged design for efficient portable exams.

Some of the following are standard features on the Definium AMX 700.

- Single-panel amorphous silicon detector with cesium iodide scintillator.
- High quantum efficiency/ Low Noise Electronics.
- Portable flat panel detector with tether.
- 15" touch screen monitor for user interface, instant image preview.
- Touch screen activated technique selection.
- DICOM 3.0 and IHE compatible for network connectivity.
- Simplified tube parking process.
- Ergonomic hand-switch controls.
- 12.5kW high -tension transformer.
- Rotating anode x-ray tube.
- Speed up to 3mph.

This particular system is rugged, maneuverable and easy to use. The advantage is that our staff of dedicated professionals will aid you in everything from finding the right system to ensuring your system is properly delivered and installed.





Facts and Figures on the GE Optima XR 200 AMX Portable X-Ray

We here at Amber pride ourselves in giving our customers a broad range of refurbished Portable X-Ray systems to chose from. With more than eight of the top models in the market, we like to sit with our customers and discuss their choices in order to come up with the best solution.

Some quick facts about the GE Optima XR200amx Portable X-Ray:

- Digital-ready.
- More power in a compact design.
- 24/7 availability, no boot-up required.
- Automatic charging.
- Improved storage.

Some other advantages of this system are that t easy to clean, and it also has ample room for storage. Everything that you require can be stored in a roomy storage bin in the machine. This model is smaller than previous models and has an incredibly powerful generator.

The look is patient friendly, it has a nice splash of color that adds a touch of humanity and minimizes the feeling of sterility with other machines in normally dull colors.

Some other important things to know about this system are:

• Square shape allows for fast, easy positioning in any direction.

- Great image quality with dose efficiency.
- Two handles offer a more secure grip to help avoid staff fatigue.
- Manufactured with durable materials it able to handle a distributed load capacity of 352 lbs.

• "Smart Charge" automatic charging algorithms allow you to recharge the system, and continue taking exposures at all times.

We will give you a full rundown that includes technical specs as well as a breakdown on how this model fits in with state and federal regulations.

In our effort to find the right model for you we will take into consideration whatever your space availability is and the layout of your facility.





Facts and Figures on the GE Optima XR 220 AMX Portable X-Ray

Perhaps your search for the right portable X-RAY has led you to the GE Optima XR220 AMX. Decisions on the right model are not just weighed by price but also by practicality. We understand that which is why we spend the necessary time finding the right machine.

Let's see what this particular portable X-Ray offers you.

- •It's the next generation of AMX portable systems.
- •The digital imaging technology is more advanced.
- •It has an advanced digital detector.
- •The portable X-Ray will work around the clock.

Other features offered are:

- No boot up required.
- Abundant storage for your needs.
- More durable detector.

An advantage of this system is also its look, it has nice soft colors, t is compact and its appeal allows the patient relax and not focus so much on the look of the surroundings. A big advantage is that it allows the person operating it to focus on patient care because it auto charges.

The Optima XR220amx enhancements over its predecessor include:

• 24/7 Availability - The system remains on standby and is ready to work even while charging. No boot-up is required.

• Uninterrupted Work - Thanks to "Smart Charge" automatic-charging algorithms, you can recharge the system and continue taking exposures.

• Stow while Charging - wireless digital detector, FlashPad, automatically charges while stowed in its bin, so technologists can maintain focus on patient care.

• Abundant Storage - You'll have ample space to store tape, pens, wipes, markers and more thanks to roomy storage trays.

• Durable Detector - FlashPad utilizes a carbon-fiber housing that protects an internal floating sub-assembly to help make it durable.

This system is a great choice for busy practices with a greater number of patients requiring basic diagnostic imaging procedures, as well as hospitals.









Facts and Figures on the GEAMX 4 Plus Portable X-Ray

Often times there are some considerations that need to be made. There is always the possibility that you may actually want a system that's harder to get. Issues may include shortage supplies as well as logistics difficulties. Perhaps you want a Brivo but realistically speaking maybe the AMX 4 Plus is your purchase. So what does this system offer?

Here are some very important facts to know:

• The AMX IV+ packs high performance features into a package that's compact and maneuverable.

• A lightweight hand switch for easier, more comfortable alignment verification and exposure control.

• More flexible, 270-degree column rotation, for faster exam set-up.

• Stronger, larger casters and wheels to minimize shock and vibration, improve mobility over rough thresholds.

This particular, practical machine also has the technical specs to match, such as:

- MX-75 275k HU X-ray tube with a .75mm focal spot.
- 24 kVp stations.

Minimum source to skin distance is limited to more than 30 cm by the skin spacers at the beam exit of the collimator.
Full 17" x 17" (43 cm x 43 cm) radiographic coverage at 40" (1.02 mm) source to image distance.

The dimensions on this particular machine are:

Size (height x width x length): 76" (1,930 mm) x 25 3/16 (640 mm) x 45 3/8" (1,153 mm).
Weight: 1,050 lbs (477 kg)

This system does not sacrifice quality and it provides the same quality as a stationary system, making it a unique X-Ray machine and ultimately a perfect purchase in many levels from care to machine mobility.







Facts and Figures on the Digital GEAMX 4 Portable X-Ray

Perhaps you are looking for a system that's largely considered revolutionary. Once more every system will have a different impact on your budget, space and ultimate practice. Often times smaller centers or private practices go after equipment that's comparable to that used in hospital emergency rooms.

Amber refurbishes GE AMX 4 portable x-ray systems using Amber's proprietary refurbishment processes that assures all of the necessary FDA safety reports, electrical, mechanical, and cosmetic upgrades are installed and calibrated to meet OEM performance specifications and like new operation. Systems are then upgrade to full digital capabilities with a wireless CR reader system and LCD touch-screen display.

Some of the features include:

Maneuverability

• Single drive handle control (with "deadman" brake and drive lock) functions ergonomically with drive motors to permit superior maneuverability. Drives respond to force applied to handle in both forward and reverse.

• Top speed of 4.8 kph (3 mph) in forward and reverse.

• Speed totally variable in both reverse and forward.

• Top speed is limited to 2.4 kph (1.5 mph) if tube is not in transport.

Operator Ease of Use

• Unique column rotation in clockwise or counterclockwise direction from the park position significantly increases setup speed by eliminating the need to reposition the patient or the system. The column may be rotated up to ± 2700 from the park position to handle the most demand-in imaging cases in tight spaces.

• A positive centering detent is also provided to further simply the tube parking process.

This particular system is not only great in terms of its many features but it's also a practical and economical choice.







Facts and Figures on the GE AMX 4 Portable X-Ray

While in search of the right piece of equipment there are a few things that could happen. Perhaps you will not get the portable X-ray machine that you needed originally. Maybe your purchase will be something smaller, perhaps due to volume you are looking for practical until suddenly you find the actual gold standards.

In the case of a portable X-RAY machine, the gold standard is the GEAMX 4 Portable X-Ray. There are three specific factors that have made this the golden system and they are:

- 1. Image quality
- 2. Reliability
- 3. Productivity

This system is perfect for busier centers as well as hospitals. The dimensions read as follows:

Dimensions:

- 1. Height: 76", 1930 mm.
- 2. Width: 25 3/16", 640 mm.
- 3. Length: 45 3/8", 1153 mm.
- 4. Weight: 1050 Lbs, 477 Kg.

The next considerations will be how will you assess the practical nature. The following movement specs give you a strong idea so you can further investigate if this gold standard is made of clay.

Movements: 180° Swivel Base. Tube vertical movement measured at the focal spot. Range: at least 52.5" (1334 mm). Lowest position: 26.1" (663 mm) maximum from floor. Highest position: 78.6" (1996 mm) minimum from floor. The horizontal movement measured at the focal spot relative to column face is 24" (610 mm) minimum, to 40" (1016 mm) maximum. Tube column rotation measured from horizontal latch is 360°. Tube and yoke rotation around Horizontal Arm measured from tube port down position: range: 360°; detent locations: 0, $\pm 90^{\circ}$, and $\pm 180^{\circ}$. Tube Trunion rotation measured from tube port down position: range: 120°, forward: 110°, backward: 10°, detent: 0°, and 90°. Collimator Rotation measured from the front of the collimator with the tube port facing down: range: 180°, right: 90°, left: 90°, detent: 0° and 90°

Perhaps this is your gold standard, but if it isn't, we will help you finding it.







Facts and Figures on the GE AMX 3 Portable X-Ray

Do you have a system in mind? Chances are that you know what you want. We have talked and moved on to the purchase. The budget, delivery and space considerations have been taken. The system that fits you best is the GE AMX 3 Portable X-RAY. What are some of the system specifications?

- 1. X-Ray Tube: MX-75 275k HU X-ray tube with a .75mm focal spot.
- 2. LED display.
- 3. Dials & Analog Meter Controls.
- 4.24 Step kV Selection 50 To 125.
- 5. (6 To 320) Manual Collimator Includes Light Field & Tape Measure.
- 6. Tethered Remote Exposure Controls.
- 7. Constant-potential output makes 100 mA rating equivalent to 200 mA single-phase conventional generators.
- 8. Silicon high-voltage rectifiers and solid state timer for consistent results.
- 9. Solid-state high frequency inverter. Overload protection for high-voltage components and battery pack.

Collimator Specifications: Minimum inherent filtration is 1.5 mm aluminum equivalent to 150 kVp. Additional filtration may be obtained by inserting 1 mm and/or 2 mm aluminum filters. Minimum source-to-skin distance is limited to more than 30 cm by the tracks on the bottom of the collimator for mounting the accessory extension cylinder. Full 17" x 17" (.43 m x .43 m) radiographic coverage at 40" (1.02 m) source to image distance is provided for tubes with a 15-degree target angle. Collimator can be rotated and locked positively at 0°, ±15°, ±30°, ±45°, and ±90° from the front position.

Self Propelled Variable Speed, forward and reverse. 0-1.75Mph. Electronic Braking. There are two speeds: Drive Speed with the horizontal Arm secured for transport, and Maneuvering Speed with the horizontal Tube Arm removed from the Transport Latch. Drive speed is measured on a smooth, hard and level surface. Speed will be reduced by inclines, carpeted or soft surfaces.

The system is compact, practical and smooth and it's reasonably priced to meet your budget specifications. With us your portable X-Ray machine will be the top quality machine you desire at a price you can afford.





Our Process

You have made the decision to purchase your refurbished portable X-Ray system. We have guided you by helping you chose the right one by addressing:

- 1. Size
- 2. Space
- 3. Needs
- 4. Best Value
- 5. Delivery
- 6. Service

There is still the lingering doubt though where you ask "Will it work for me?"

Our guarantee to you is yes. We go through a very specific and detailed process that allows us to provide you with peace of mind.

Amber Diagnostics thoroughly refurbished diagnostic systems are examined at the time of de installation and throughout the refurbishment and re-assembly process to assure all of the necessary FDA recalls, FDA warning letters, FDA safety reports, electrical, mechanical, and cosmetic upgrades are installed to meet OEM performance specifications and like new operation.

The following is a listing of our process:

- We select the best-conditioned machine.
- There is a complete process of reassembly.
- Cosmetic restoration to make your equipment look new.
- Staging where we do quality testing.
- Installation.
- Warranty of our work.

We guide you through the entire process to ensure that you have nothing but the best experience.









We Are Your Specialists

We here at Amber understand that when you make that big purchase decision you want to buy from a team of specialists. You want that refurbished portable X-Ray to come from a specialized team.

You know that we are specialists in every modality, but there is more to that particular word when it comes to us. Let's go over a few things so you can feel more comfortable. We are not just selling you a single modality that we know about and made good as new. We here at amber are providing you with all the services you need.

Other services we specialize in are:

1. **Crating:** If you are overseas or in another state, we will get you your machine, wrapped up and safe.

2. **Shipping:** We won't just wrap your portable X-Ray but we will ship it.

3. **De-installation:** If it's necessary to take out an old system to put in a new one, we can do that.

4. **Installation:** installing your equipment is one of our main specialties.

5. **Site Planning:** If we need to help you figure out where to place your particular piece of machinery, we will. Our trained experts will take into consideration the dimensions, floor plan and variables such as smaller spaces and building age in order to make the installation speedy and effective.

Our specialties make us your definitive one stop shop for all your needs, and our experience makes us the best choice.

Our professional Sales Team is ready to help you every step of the way through the X-Ray machine purchase process. We offer complete portable X-Ray buying, planning, shipping, installation and technical service. Whether you are looking to purchase Analog or Digital X-Ray systems, Amber has the resources and experience to get the job done right.







Some of The Things We Will Guide You Through

All diagnostic imaging equipment has to meet federal and sate regulations. Sometimes it can be complicated to understand what's what in that particular end. Through the process we do our best to educate you on which restrictions most likely apply and to what in particular. Below are some of the federal regulations under title 21 specific to radiological health:

Control and indication of technique factors

(1) Visual indication. The technique factors to be used during an exposure shall be indicated before the exposure begins, except when automatic exposure controls are used, in which case the technique factors which are set prior to the exposure shall be indicated. On equipment having fixed technique factors, this requirement may be met by permanent markings. Indication of technique factors shall be visible from the operator's position except in the case of spot films made by the fluoroscopist.

(2) Timers. Means shall be provided to terminate the exposure at a preset time interval, a preset product of current and time, a preset number of pulses, or a preset radiation exposure to the image receptor.



(I) Except during serial radiography, the operator shall be able to terminate the exposure at any time during an exposure of greater than one-half second. Except during panoramic dental radiography, termination of exposure shall cause automatic resetting of the timer to its initial setting or to zero. It shall not be possible to make an exposure when the timer is set to a zero or off position if either position is provided.

(ii) During serial radiography, the operator shall be able to terminate the x-ray exposure(s) at any time, but means may be provided to permit completion of any single exposure of the series in process.

(3) Automatic exposure controls. When an automatic exposure control is provided:

(I) Indication shall be made on the control panel when this mode of operation is selected;

(ii) When the x-ray tube potential is equal to or greater than 51 kilovolts peak (kVp), the minimum exposure time for field emission equipment rated for pulsed operation shall be equal to or less than a time interval equivalent to two pulses and the minimum exposure time for all other equipment shall be equal to or less than 1/60 second or a time interval required to deliver 5 milliampere-seconds (mAs), whichever is greater; (iii) Either the product of peak x-ray tube potential, current, and exposure time shall be limited to not more than 60 kilowatt-seconds (kWs) per exposure or the product of x-ray tube current and exposure time shall be limited to not more than 60 kilowatt-seconds (kWs) per exposure, except when the x-ray tube potential is less than 51 kVp, in which case the product of x-ray tube current and exposure time shall be limited to not more than 2,000 mAs per exposure; and (iv) A visible signal shall indicate when an exposure has been terminated at the limits described in paragraph (a)(3)(iii) of this section, and manual resetting shall be required before further automatically timed exposures can be made.

(4) Accuracy. Deviation of technique factors from indicated values shall not exceed the limits given in the information provided in accordance with 1020.30(h)(3).

(b) Reproducibility. The following requirements shall apply when the equipment is operated on an adequate power supply as specified by the manufacturer in accordance with the requirements of 1020.30(h)(3):

These regulations are an example of the many things you need to know prior to your purchase. While it is difficult to understand many of these regulations we here at Amber Diagnostics do our best to help you understand all of these regulations and more specifically how they apply to your portable X-Ray system.



Different States, and Regulations

Different states will have different rules and said rules may have to exemptions for different machines. The portable X-Ray system is no different. A good example is the state of California. As California has its own rules specific to portable X-Rays here some special examples of rules and exemptions:

EXEMPTION TO CALIFORNIA CODE OF REGULATIONS (CCR) Title 17 (17CCR), Sections 30311(b)(4), 30314(a)(5) and 30314(b)(1). The California Department of Public Health, Radiologic Health Branch (Department), is issuing this exemption to address the use of Portable Hand-Held X-Ray Systems used in dental and veterinary settings. This exemption supersedes both Radiation Safety Advisory 06-01, issued February 24, 2006, and the exemption issued to Aribex on August 17, 2010. Pursuant to Title 17, California Code of Regulations, §30104, the Department may grant exemptions from the applicable requirements of Title 17 as it determines are authorized by law and will not result in any undue hazard to health, life, or property.

California dentists and the trained staff operating under the supervision of a dentist are hereby granted an exemption from the prohibition listed in 17 CCR 30311(b)(4), which states: "Neither the tube housing nor the position indicating device (cone cylinder) shall be hand-held during exposure." Veterinarians and the trained staff operating under the supervision of a veterinarian are hereby granted an exemption from the prohibitions listed in 17 CCR 30314(a)(5), which states: "A dead-man type of exposure switch shall be provided, together with an electrical cord of sufficient length so that the operator can stand out of the useful beam and at least 6 feet from the animal during all X-ray exposures" and in 17 CCR 30314(b)(1), which states, in part: "The tube housing shall not be held by the operator." These individuals may operate portable hand-held x-ray systems while this exemption remains in effect.

Compliance with the provisions listed below will be evaluated during inspections conducted by Departmental personnel. This exemption provided that the following conditions are met:

1. The portable X-ray system being used has received FDA approval and is being used in a manner consistent with that approval;

2. A back scatter shield provided by the manufacturer, which provides not less than 0.25 mm lead equivalent, must be permanently affixed in place at all times; the X-ray system may not be used if this component becomes broken or dislodged;

3. Personnel monitoring devices must be worn by all individuals operating portable X-ray systems. The personnel monitoring must be evaluated on a monthly basis, and records must be available for review by the Department;

4. All personnel must receive training in the safe use of these X- ray systems; records of training must be available for review by the Department.

This particular exemption to a state code speaks specifically to portable X-ray systems in veterinary clinics and dentist offices. These types of variations to special rules are important to both know and understand.

Here at Amber Diagnostics we de the very best in order to help you better understand these rules and how they will impact your purchase. We pride ourselves in constantly staying up to date on the various differences from state to state. We will help you make an informed decision based on everything including those incredibly detailed regulations.



The Amber Benefit

A purchase for any piece of equipment is a major investment in time and money. A portable X-Ray machine is designed for quick, and practical purposes. Once the decision has been made, it's important to go with the right dealer. Outside of our mission we also provide a huge benefit to the buyer. Our biggest asset is our experience.



To make it easier for you to understand here are some of our advantages:

- 1. Over twenty-four years in the industry of refurbished diagnostic imaging sales.
- 2. A strong sales team comprised of specialized individuals with a broad knowledge base on specific modalities.
- 3. A background in international sales and installations.
- 4. A brad database that allows us to quickly locate what you are looking for.
- 5. Knowledge of the various brand advantages.
- 6. The best service plans available.

Our ability to provide you with the right answers to your questions sets us apart from other companies. We strive to:

- 1. Understand all regulations
- 2. Understand all shipping options and issues
- 3. Document our installation process in order to demonstrate our quickness and efficiency.
- 4. Properly explain every option from research to final sale.

At Amber we make it our business to not just sell a machine, but to sell the best machine.



PORTABLE X-RAY BUYERS GUIDE

1.888.561.7900 • 1.407.438.7847 • www.AmberUSA.com





Amber's Promise

As we have stated before, we will not give you a flat price on any system. We will address your needs, budget, and geographic location in order to find out what suits your practice.

Once a decision has been made we will ensure that your purchase is not just a great system but also in compliance and laws at a federal and state level. We understand that these purchases can be daunting tasks, which is why we take the time to help you through the entire process.

Once the system has been purchased and installed we make sure to stay in touch in order to help you should any other needs arise. We are not just your one stop shop for the best refurbished equipment but we are also a long lasting relationship designed to aid you.

Amber Diagnostics provides quality x-ray repair and technical support in Central FL for all models of portable x-ray machines. Our factory trained field service engineers are available to install, upgrade, calibrate or repair your X-Ray equipment. Our engineers are ready to help you every step of the way through your portable X-Ray repair and service request.

Please give us a call, our team of experienced professionals looks forward to answering your questions. 1.407.438.7847 or (US Toll Free) 1.888.561.7900









Still Have Questions?

Though this guide book is intended to inform you on the foundations of buying and safely utilizing a Portable X-Ray System, we're pretty certain it must have raised some questions along the way.

Our knowledgeable and attentive team at Amber Diagnostics is here to help you find the perfect portable X-Ray system for your business. If the time is not right for you to purchase radiology equipment just yet, give us a call anyway! We will be happy to address all your questions and concerns.

Amber Diagnostics Inc. 2180 Premier Row, Orlando, Florida 32809 USA.

Phone: 1-407-438-7847 US Toll Free: 1-888-561-7900 Fax: 407-856-5456 Email: Info@AmberUSA.com Website: www.AmberUSA.com

Be sure to subscribe to our <u>Amber Blog</u> as well for tips and trends in the imaging industry.







PORTABLE X-RAY BUYERS GUIDE

Amber Diagnostics 1-888-561-7900 • 1-407-438-7847 www.AmberUSA.com