

**DATASHEET**

# Imaging Device Security Gap Analysis

## A Risk Assessment Service

*Know what your gaps are. See recommendations and best practices for how to close them.*

### Identify and Quantify the Risk to Your Hospital's Most Critical Assets

A hospital's number one goal is to provide safe, secure, and high-quality medical care to ensure the well-being and safety of its patients. To address this, healthcare providers rely on connected medical devices for their clinical workflows and life-saving treatments.

Unlike other IT assets, connected medical devices are often unprotected or unmanaged. As a result, they are extremely vulnerable to breaches, ransomware, or other attacks that could adversely impact data confidentiality and patient safety.

The CyberMDX Imaging Device Security Gap Analysis is a service designed to analyze your covered medical devices so you can better understand where your security vulnerabilities lie and how you can prioritize necessary corrective actions to strengthen your overall cyber security posture.

Ransomware like Ryuk or WannaCry continues to have a significant impact on hospital operations. Standard security tools simply do not provide the context-aware visibility needed to understand and protect medical environments.

The CyberMDX Imaging Device Security Gap Analysis will provide a concise and prioritized context-aware risk assessment, allowing you to focus resources and budget towards closing your medical device security gaps so you can protect the safety of your patients and your hospital's reputation.

### Assess Medical Device Security Risk

- What are your most critical security vulnerabilities?
- Are you meeting HIPAA compliance requirements?
- Do you have visibility of all assets?

### Prioritize Corrective Actions

- How to establish a live inventory
- What to do when onboarding a new medical device
- How to set up an on-going risk management process
- What HIPAA compliance alignment looks like

### Improve Security Posture and Continuity Planning

- Can you catch vulnerabilities before they can be exploited?
- Do you have risk scores of each medical device?

# Detailed Risk Analysis

# Compliance Posture

# Best Practice Actions

## Inventory Summary

A summary report showing an accurate inventory of the connected medical devices and operational posture, including FDA recalls and outdated software.

## Detailed Risk Analysis

A detailed risk analysis showing total assets, device types, critical vulnerabilities, credentials issues, and assets running EOL / EOS operating systems.

## Compliance Posture

Track changes in inventory and violations of specific HIPAA Security Rule controls.

## Recommendations and Best Practices

Recommended actions for you to take to strengthen your medical device security and best practices to ensure ongoing network hygiene.

**Outdated Software:** A more recent version of software is available according to the CyberMDX VERSIONS database

**FDA Recall:** These are extracted from FDA open databases, which may include recalls that have been previously resolved on the device.

**194** Total Critical Vulnerabilities (21 on critical device(s))

**34** Assets Have a Wormable Vulnerability (34 critical device(s))

**10** Assets with Credentials Issues (10 critical device(s))

**21** Assets running EOL/EOS O/S

**Cybersecurity Posture Summary**

Type	#Devices	JCAHO Eq. Func.	Vulnerable Assets	Unmanaged	AV Unprotected	Internet Connected
Ultrasound	37	6	15	26	26	15
X-ray Mammography	9	6	5	9	7	8
Computed Radiography	10	3	10	10	6	7
CT	12	6	6	12	10	7

**Inventory and Operational Posture**

**Scope:** This assessment is focused solely on imaging devices.

**Software version:** 30.48% Outdated, 69.52% Up-to-date

**FDA Recalled Assets:** 27.62% Recalled, 72.38% No Recalls

**Inventory Summary**

Type	#Vendors	#Devices	FDA Recall	Outdated Software
Ultrasound	5	37	18	24
CT	5	12	6	1
Computed Radiography	2	10		
Generic Imaging	4	10		1
X-ray Mammography	2	9	1	
MRI	2	6	1	
X-ray Angiography	4	6	1	3
X-ray Fluoroscopy	5	6	2	3
X-ray	1	5		
X-ray Mobile	1	2		
Digital Radiography	1	1		
X-ray Intraoral	1	1		
<b>Total</b>	<b>16</b>	<b>105</b>	<b>29</b>	<b>32</b>

*Minimal cost that would be applied as credit toward any purchase of the CyberMDX Healthcare Security Suite*