Hologic, Inc.	Affirm Prone Biopsy System 1.1	MAN-05009 Revision 002	16-Sep-2020			
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Question ID	Question		See note	IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
DOC-1	Manufacturer Name	Hologic, Inc.		120 1110000 2 2 2.2022		100 17001.1010
DOC-2	Device Description	Prone breast biopsy imaging				
		system.				
DOC-3	Device Model	Affirm Prone Biopsy System 1.1				
DOC-4	Document ID	MAN-05009 Revision 002	_			
DOC-5	Manufacturer Contact Information	Chris Fischer				
		Chris.Fischer@Hologic.com	_			
DOC-6	Intended use of device in network-connected	The Affirm Prone Biopsy System is a				
1	environment:	2D/3D imaging prone breast biopsy				
1		system designed to target lessions				
		found in the patient's diagnostic				
		work up. The system is able to capture images and perform				
1		procedures with no network				
1		connectivity. However it is typically				
1		connected to a network to achieve				
1		query/retrieve, archiving, printing,				
1		interfacing with a RIS, etc.				
1						
1						
DOC-7	Document Release Date	16-Sep-20	_			
DOC-8	· · · · · · · · · · · · · · · · · · ·	No				
	manufacturer have a vulnerability disclosure					
DOC 0	program for this device?	No	_			
DOC-9	·	No				
1	Sharing and Analysis Organization?					
DOC-10	Diagram: Is a network or data flow diagram available	Yes, available upon request.	<u> </u>			
1	that indicates connections to other system					
1	components or expected external resources?					
1						
DOC-11	SaMD: Is the device Software as a Medical Device	No				
	(i.e. software-only, no hardware)?		_			
DOC-11.1		N/A				
DOC-11.2	Does the SaMD rely on an owner/operator provided	N/A				
 	operating system?		_			
DOC-11.3	Is the SaMD hosted by the manufacturer?	N/A				
<u> </u>						
DOC-11.4	Is the SaMD hosted by the customer?	N/A	_			
1		Yes, No,				
1		N/A, or See Notes	Note #			
	MANAGEMENT OF PERSONALLY IDENTIFIABLE	See Notes	Note #			
1	INFORMATION			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
MPII-1		Yes				.50 2, 002,2010
_ I	personally identifiable information (e.g. electronic					
1	Protected Health Information (ePHI))?					
			Note 1		AR-2	A.15.1.4
MPII-2	Does the device maintain personally identifiable	Yes				
 	information?		_		AR-2	A.15.1.4
MPII-2.1	Does the device maintain personally identifiable	Yes				
1	information temporarily in volatile memory (i.e.,					
1	until cleared by power-off or reset)?					
MPII-2.2	Does the device store personally identifiable	Yes			AR-2	A.15.1.4
		1 4 0 5	-			

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1 4 D U 2 2		.,			
MPII-2.3	the device's non-volatile memory until explicitly	Yes			
MPII-2.4	erased? Does the device store personally identifiable	Yes	Note 2		
	information in a database?		Note 3		
MPII-2.5	Does the device allow configuration to automatically delete local personally identifiable information after it is stored to a long term solution?	Yes			
				AR-2	A.15.1.4
MPII-2.6	Does the device import/export personally identifiable information with other systems (e.g., a wearable monitoring device might export personally identifiable information to a server)?	Yes		AR-2	A 15 1 4
MPII-2.7	Does the device maintain personally identifiable information when powered off, or during power service interruptions?	Yes		AR-2	A.15.1.4 A.15.1.4
MPII-2.8	Does the device allow the internal media to be removed by a service technician (e.g., for separate destruction or customer retention)?	Yes		7.11.2	7,112,12,17
MPII-2.9	Does the device allow personally identifiable information records be stored in a separate location from the device's operating system (i.e. secondary internal drive, alternate drive partition, or remote	No			
MPII-3	storage location)? Does the device have mechanisms used for the transmitting, importing/exporting of personally	Yes		AR-2	A.15.1.4
MPII-3.1	identifiable information? Does the device display personally identifiable	Yes	_	AR-2	A.15.1.4
IVIFII-3.1	information (e.g., video display, etc.)?	res	_	AR-2	A.15.1.4
MPII-3.2	Does the device generate hardcopy reports or images containing personally identifiable information?	Yes	Note 4	AR-2	A.15.1.4
MPII-3.3	Does the device retrieve personally identifiable information from or record personally identifiable information to removable media (e.g., removable-HDD, USB memory, DVD-R/RW,CD-R/RW, tape, CF/SD card, memory stick, etc.)?	Yes	Note 4	AR-2	A.15.1.4
MPII-3.4	Does the device transmit/receive or import/export personally identifiable information via dedicated cable connection (e.g., RS-232, RS-423, USB, FireWire, etc.)?	Yes	Note 5	AR-2	A.15.1.4
MPII-3.5	Does the device transmit/receive personally identifiable information via a wired network connection (e.g., RJ45, fiber optic, etc.)?	Yes	Note 6	AR-2	A.15.1.4
MPII-3.6	Does the device transmit/receive personally identifiable information via a wireless network connection (e.g., WiFi, Bluetooth, NFC, infrared, cellular, etc.)?	Yes	Optional	AR-2	A.15.1.4
MPII-3.7		No	- p	AR-2	A.15.1.4
MPII-3.8	Does the device import personally identifiable information via scanning a document?	No		=	
MPII-3.9		No	_		
MPII-3.10	Does the device use any other mechanism to transmit, import or export personally identifiable information?	No		AR-2	A.15.1.4

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Management of Pr	rivate Data notes:				AR-2	A.15.1.4
vianagement or Pi	nivate Data notes.				An-2	A.13.1.4
	AUTOMATIC LOGOFF (ALOF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.					
ALOF-1	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logoff,	Yes				
	session lock, password protected screen saver)?		Note 7	Section 5.1, ALOF	AC-12	None
ALOF-2	Is the length of inactivity time before autologoff/screen lock user or administrator configurable?	Yes	Note 7	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
	comgarable:		Note /	Section 3.1, ALG	AC 11	A.11.2.0, A.11.2.5
	AUDIT CONTROLS (AUDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to reliably audit activity on the device.					
AUDT-1	Can the medical device create additional audit logs or reports beyond standard operating system logs?	Yes		Section F.2. AUDT	A11.1	A.5.1.1, A.5.1.2, A.6.1.1,
AUDT-1.1	Does the audit log record a USER ID?	Yes	_	Section 5.2, AUDT	AU-1	A.12.1.1, A.18.1.1, A.18.2.
AUDT-1.2		Yes	<u></u>			
	in the audit trail?			Section 5.2, AUDT	AU-2	None
AUDT-2	Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the	Yes				
AUDT-2.1	audit log: Successful login/logout attempts?	Yes	_	Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUDT-2.1 AUDT-2.2	Unsuccessful login/logout attempts?	Yes		Section 5.2, AODT	AU-2	None
AUDT-2.3	Modification of user privileges?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.4	Creation/modification/deletion of users?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.5	Presentation of clinical or PII data (e.g. display,	Yes		Section F. 2. AUDT	AU 2	None
AUDT-2.6	print)? Creation/modification/deletion of data?	Yes	_	Section 5.2, AUDT Section 5.2, AUDT	AU-2 AU-2	None None
AUDT-2.7	Import/export of data from removable media (e.g.	Yes				
ALIDT 2.0	USB drive, external hard drive, DVD)?	Vos		Section 5.2, AUDT	AU-2	None
AUDT-2.8	Receipt/transmission of data or commands over a network or point-to-point connection?	Yes		Section 5.2, AUDT	AU-2	None
AUDT-2.8.1	Remote or on-site support?	Yes	_	Section 5.2, AUDT	AU-2	None
AUDT-2.8.2	Application Programming Interface (API) and similar					
	activity?	21/2		Section 5.2, AUDT	AU-2	None
AUDT-2.9 AUDT-2.10	Emergency access? Other events (a.g., software undetes)?	N/A Yes	— Note 8	Section 5.2, AUDT Section 5.2, AUDT	AU-2	None
AUDT-2.11	Other events (e.g., software updates)? Is the audit capability documented in more detail?	No	Note 8	Section 5.2, AUDT	AU-2 AU-2	None None
AUDT-3	Can the owner/operator define or select which events are recorded in the audit log?	No		Section 5.2, AUDT	AU-2	None
AUDT-4	Is a list of data attributes that are captured in the	Yes	Available upon request.	Section 5.2, AUDT	AU-2	None
AUDT-4.1	audit log for an event available? Does the audit log record date/time?	Yes	Note 9	Section 5.2, AUDT	AU-2 AU-2	None
AUDT-4.1.1	Can date and time be synchronized by Network Time Protocol (NTP) or equivalent time source?		Note 10	Section 5.2, AUDT	AU-2	None
AUDT-5	Can audit log content be exported?	Yes	INOTE TO	Section 5.2, AUDT	AU-2 AU-2	None
AUDT-5.1	Via physical media?	Yes		3001011 3.2, A001	710 2	None
AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM?					

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AUDT-5.3	Via Other communications (e.g., external service	Yes				
AUDT-5.4	device, mobile applications)? Are audit logs encrypted in transit or on storage	Yes	Note 11			
AUDT-6	media? Can audit logs be monitored/reviewed by	Yes	Note 12			
AUDT-7	owner/operator? Are audit logs protected from modification?	Yes	_	Section 5.2, AUDT	AU-2	None
AUDT-7.1	Are audit logs protected from access?	Yes	_			110110
AUDT-8	Can audit logs be analyzed by the device?	No		Section 5.2, AUDT	AU-2	None
	AUTHORIZATION (AUTH)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to determine the authorization of users.					
AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other	Yes				
AUTH-1.1	mechanism?	Yes	Note 13	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.1	Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	res	Active Directory	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.2		See Notes	Note 14	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-1.3	Are any special groups, organizational units, or group policies required?	Yes	Note 15	Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-2	Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or	Yes	Note 25			
AUTH-3	service, etc.)? Can the device owner/operator grant themselves	Yes		Section 5.3, AUTH	IA-2	A.9.2.1
	unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?					
AUTH-4	Does the device authorize or control all API access	N/A		Section 5.3, AUTH	IA-2	A.9.2.1
AUTH-5	requests? Does the device run in a restricted access mode, or	Yes		Section 5.3, AUTH	IA-2	A.9.2.1
	'kiosk mode', by default?					
	CYBER SECURITY PRODUCT UPGRADES (CSUP)					
				IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.					
CSUP-1		Yes				
CSUP-2	Does the device contain an Operating System? If yes, complete 2.1-2.4.	, Yes				
CSUP-2.1	Does the device documentation provide instructions for owner/operator installation of patches or	Yes				
CSUP-2.2	software updates? Does the device require vendor or vendor- authorized service to install patches or software	No	Note 16			
CSUP-2.3	updates? Does the device have the capability to receive	Yes				
	remote installation of patches or software updates?					

				<u></u>			
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CSUP-2.4	Does the medical device manufacturer allow security	Coo Notos					
C30F-2.4	updates from any third-party manufacturers (e.g.,	isee Notes					
	Microsoft) to be installed without approval from the						
	manufacturer?		Note 16				
CSUP-3		Yes					
	yes, complete 3.1-3.4.		_				
CSUP-3.1	Does the device documentation provide instructions	No					
	for owner/operator installation of patches or						
	software updates?		_				
CSUP-3.2	Does the device require vendor or vendor-	Yes					
	authorized service to install patches or software						
CSUP-3.3	updates? Does the device have the capability to receive	Yes	_				
C30P-3.3	remote installation of patches or software updates?	res					
	remote installation of pateries of software updates:						
CSUP-3.4	Does the medical device manufacturer allow security	No	_				
	updates from any third-party manufacturers (e.g.,						
	Microsoft) to be installed without approval from the						
	manufacturer?						
CSUP-4	Does the device contain Anti-Malware Software? If	Yes					
	yes, complete 4.1-4.4.		Note 17				
CSUP-4.1	Does the device documentation provide instructions	Yes					
	for owner/operator installation of patches or software updates?		Note 17				
CSUP-4.2	Does the device require vendor or vendor-	See Notes	Note 17				
C301 -4.2	authorized service to install patches or software	See Notes					
	updates?		Note 17				
CSUP-4.3	Does the device have the capability to receive	Yes					
	remote installation of patches or software updates?						
			Note 17				
CSUP-4.4	Does the medical device manufacturer allow security	See Notes					
	updates from any third-party manufacturers (e.g.,						
	Microsoft) to be installed without approval from the manufacturer?		Note 17				
CSUP-5		Yes	Note 17				
C30F-3	commercial off-the-shelf components? If yes,	les					
	complete 5.1-5.4.						
CSUP-5.1	Does the device documentation provide instructions	No					
	for owner/operator installation of patches or						
	software updates?						
CSUP-5.2	Does the device require vendor or vendor-	Yes					
	authorized service to install patches or software						
CCLID E 3	updates?	Van					
CSUP-5.3	Does the device have the capability to receive	Yes					
	remote installation of patches or software updates?						
CSUP-5.4	Does the medical device manufacturer allow security	No	-				
	updates from any third-party manufacturers (e.g.,						
	Microsoft) to be installed without approval from the						
	manufacturer?						
CSUP-6	Does the device contain other software components	No					
	(e.g., asset management software, license						
	management)? If yes, please provide details or						
	refernce in notes and complete 6.1-6.4.						
CSLID-6 1	Does the device decumentation provide instructions	N/A	_				
CSUP-6.1	Does the device documentation provide instructions for owner/operator installation of patches or	IN/A					
	software updates?						
CSUP-6.2		N/A	_				
· 	authorized service to install patches or software	, ·					
	updates?						
	Inhances.	1	<u>ı—</u>	1	I .	1	

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		1				
CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A				
CSUP-6.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?					
CSUP-7		Yes	Note 18			
CSUP-8		No				
CSUP-9	Does the manufacturer have an approved list of third-party software that can be installed on the device?	Yes	Note 17			
CSUP-10	Can the owner/operator install manufacturer- approved third-party software on the device themselves?	Yes	Note 17			
CSUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?	No	Note 17			
CSUP-11	Does the manufacturer have a process in place to assess device vulnerabilities and updates?	Yes	Note 19			
CSUP-11.1	Does the manufacturer provide customers with review and approval status of updates?	Yes	Note 18			
CSUP-11.2	Is there an update review cycle for the device?	Yes	Note 20			
	HEALTH DATA DE-IDENTIFICATION (DIDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to directly remove information that allows identification of a person.				Nier er ees es neur i	100 1700111010
DIDT-1	Does the device provide an integral capability to de- identify personally identifiable information?	Yes		Section 5.6, DIDT	None	ISO 27038
DIDT-1.1	Does the device support de-identification profiles that comply with the DICOM standard for de-identification?	Yes	_	Section 5.6, DIDT	None	ISO 27038
	DATA BACKUP AND DISASTER RECOVERY (DTBK)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.					
DTBK-1	Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?	No	_			
DTBK-2	Does the device have a "factory reset" function to restore the original device settings as provided by the manufacturer?	Yes	_	Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-3	Does the device have an integral data backup capability to removable media?	Yes	Note 21	Section 5.7, DTBK	CP-9	A.12.3.1
DTBK-4	Does the device have an integral data backup capability to remote storage?	Yes	Note 21			
DTBK-5	Does the device have a backup capability for system configuration information, patch restoration, and	Yes				
	software restoration?		Note 21			

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DTBK-6	Does the device provide the capability to check the	No				
DIBK-0	integrity and authenticity of a backup?	No				
				Section 5.7, DTBK	CP-9	A.12.3.1
	EMERGENCY ACCESS (EMRG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device user to access personally identifiable information in case of a medical emergency situation that requires immediate access to stored personally identifiable information.					
EMRG-1	Does the device incorporate an emergency access (i.e. "break-glass") feature?	No	_	Section 5.8, EMRG	SI-17	None
	HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	How the device ensures that the stored data on the device has not been altered or destroyed in a non-authorized manner and is from the originator.					
IGAU-1	Does the device provide data integrity checking mechanisms of stored health data (e.g., hash or digital signature)?	No		Section 5.9, IGAU	SC-28	A.18.1.3
IGAU-2	Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g.,	No				
	RAID-5)?		Note 22	Section 5.9, IGAU	SC-28	A.18.1.3
	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA					
	MALWARE DETECTION/PROTECTION (MLDP)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to effectively prevent, detect and remove malicious software (malware).					
MLDP-1	Is the device capable of hosting executable software?	Yes		Section 5.10, MLDP		
MLDP-2	Does the device support the use of anti-malware software (or other anti-malware mechanism)? Provide details or reference in notes.	Yes				
			Note 17	Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-2.1	Does the device include anti-malware software by default?	Yes	Note 17	Section 5.10, MLDP	CM-5	A.9.2.3, A.9.4.5, A.12.1.2, A.12.1.4, A.12.5.1
MLDP-2.2	Does the device have anti-malware software available as an option?	Yes	Note 17	Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2, A.16.1.4
MLDP-2.3	Does the device documentation allow the owner/operator to install or update anti-malware	Yes				
MLDP-2.4	software? Can the device owner/operator independently (re-	Yes	Note 17	Section 5.10, MLDP	CP-10	A.17.1.2
IVILUF-2.4)configure anti-malware settings?		Note 23	Section 5.10, MLDP	AU-2	None
MLDP-2.5	Does notification of malware detection occur in the	See Notes				
MLDP-2.6	device user interface? Can only manufacturer-authorized persons repair	Yes	Note 24			
INILUF-2.0	systems when malware has been detected?	100				
MLDP-2.7	Are malware notifications written to a log?	Yes	Note 25			
MLDP-2.8	Are there any restrictions on anti-malware (e.g., purchase, installation, configuration, scheduling)?	Yes				
	purchase, installation, configuration, scheduling)?		Note 23			

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MLDP-3	If the answer to MLDP-2 is NO, and anti-malware	N/A				
	cannot be installed on the device, are other					A.12.6.1, A.14.2.2, A.14.2.3
	compensating controls in place or available?			Section 5.10, MLDP	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
MLDP-4	Does the device employ application whitelisting that	No	_	Section 3.13, MEST	5. 2	7 (1201210
	restricts the software and services that are					
	permitted to be run on the device?					
				Section 5.10, MLDP	SI-3	A.12.2.1
MLDP-5	Does the device employ a host-based intrusion	No		Soction F 10 MIDD	SI-4	None
MLDP-5.1	detection/prevention system? Can the host-based intrusion detection/prevention	N/A		Section 5.10, MLDP	31-4	None
141601 -3.1	system be configured by the customer?					
	c, com se com garca a, and cascomen		_	Section 5.10, MLDP	CM-7	A.12.5.1
MLDP-5.2	Can a host-based intrusion detection/prevention	No				
	system be installed by the customer?					
				Section 5.10, MLDP		
	NODE AUTHENTICATION (NAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to authenticate			IEC 1K 80001-2-2.2012	NIST 3P 800-33 Rev. 4	130 27002:2013
	communication partners/nodes.					
NAUT-1	Does the device provide/support any means of node	Yes				
	authentication that assures both the sender and the					
	recipient of data are known to each other and are					
	authorized to receive transferred information (e.g.					
	Web APIs, SMTP, SNMP)?			0 11 5 44 11115	00.00	
NAUT-2	Are network access control mechanisms supported	Yes		Section 5.11, NAUT	SC-23	None
NAUT-Z	(E.g., does the device have an internal firewall, or	res				
	use a network connection white list)?					A.13.1.1, A.13.1.3,
	,		Note 26	Section 5.11, NAUT	SC-7	A.13.2.1,A.14.1.3
NAUT-2.1	Is the firewall ruleset documented and available for	Yes				
	review?		Available upon request.			
NAUT-3	Does the device use certificate-based network	No				
	connection authentication?					
	CONNECTIVITY CAPABILITIES (CONN)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	All network and removable media connections must			120 111 00002 2 212022		100 1100111010
	be considered in determining appropriate security					
	controls. This section lists connectivity capabilities					
	that may be present on the device.					
CONN-1	Does the device have hardware connectivity	Yes				
CONN-1.1	capabilities? Does the device support wireless connections?	Yes	-			
CONN-1.1.1	Does the device support Wi-Fi?	Yes	_			
CONN-1.1.2	Does the device support Bluetooth?	No				
CONN-1.1.3	Does the device support other wireless network	No				
	connectivity (e.g. LTE, Zigbee, proprietary)?					
CONING	Basella de la companya de la company	N				
CONN-1.1.4	Does the device support other wireless connections	INO				
	(e.g., custom RF controls, wireless detectors)?					
CONN-1.2	Does the device support physical connections?	Yes				
CONN-1.2.1	Does the device have available RJ45 Ethernet ports?					
	·		_			
CONN-1.2.2	Does the device have available USB ports?	Yes	_			
CONN-1.2.3	Does the device require, use, or support removable	Yes				
	memory devices?		Note 5			

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CONN-1.2.4	Does the device support other physical connectivity?	Yes				
CONN-2	Does the manufacturer provide a list of network	Yes				
COMN-2	ports and protocols that are used or may be used on					
	the device?		Available upon request.			
CONN-3	Can the device communicate with other systems	Yes				
	within the customer environment?		_			
CONN-4	external to the customer environment (e.g., a	Yes				
	service host)?					
CONN-5 CONN-6		No No	_			
	its intended use?					
CONN-7	Does the device support Transport Layer Security (TLS)?	Yes	Note 27			
CONN-7.1	Is TLS configurable?	Yes	Note 27			
CONN-8	Does the device provide operator control	No				
	functionality from a separate device (e.g., telemedicine)?					
	PERSON AUTHENTICATION (PAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability to configure the device to authenticate users.					
PAUT-1	Does the device support and enforce unique IDs and	Yes				
	passwords for all users and roles (including service					
	accounts)?	.,	Note 28	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including	Yes				
	service accounts)?		Note 28	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-2	Is the device configurable to authenticate users through an external authentication service (e.g., MS Active Directory, NDS, LDAP, OAuth, etc.)?	Yes				
			Active Directory	Section 5.12, PAUT	IA-5	A.9.2.1
PAUT-3	9	Yes				
	certain number of unsuccessful logon attempts?		Note 29	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-4	Are all default accounts (e.g., technician service	No	Note 25	3000001 3.12,1 A01	In 2	7.3.2.1
	accounts, administrator accounts) listed in the documentation?			Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9 A.15.1.2
PAUT-5	Can all passwords be changed?	Yes		Section 5.12, PAUT		
PAUT-6	Is the device configurable to enforce creation of user account passwords that meet established (organization specific) complexity rules?	Yes				
			Note 30	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-7	Does the device support account passwords that expire periodically?	Yes	Note 31			
PAUT-8	Does the device support multi-factor authentication?	No				
PAUT-9	Does the device support single sign-on (SSO)?	Yes	Active Directory	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-10	Can user accounts be disabled/locked on the device?	Yes		Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-11	Does the device support biometric controls?	No	 Note 32	Section 5.12, PAUT	IA-2	A.9.2.1
PAUT-12	Does the device support physical tokens (e.g. badge access)?			, -		
PAUT-13	,	Yes				
PAUT-14	Does the application or device store or manage	Yes	Note 22			
PAUT-14.1	authentication credentials? Are credentials stored using a secure method?	Yes	Note 33 Note 33			
1 701-14.1	The creatings stored asing a secure method:	103	11010 33			+

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	PHYSICAL LOCKS (PLOK)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Physical locks can prevent unauthorized users with				
	physical access to the device from compromising the				
	integrity and confidentiality of personally				
	identifiable information stored on the device or on				
21.21.4	removable media				
PLOK-1	Is the device software only? If yes, answer "N/A" to	No	Costion F 12 DIOK	DE 2/4)	A 11 1 1 A 11 1 2 A 11 1 2
PLOK-2	remaining questions in this section.	No —	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLUK-Z	Are all device components maintaining personally identifiable information (other than removable	INO			
	media) physically secure (i.e., cannot remove				
	without tools)?		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-3	·	No —	333,6113,123,123,1	. = 5(1)	,,,,,
LONG	identifiable information (other than removable				
	media) physically secured behind an individually				
	keyed locking device?	_	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
PLOK-4	Does the device have an option for the customer to	No			
	attach a physical lock to restrict access to removable				
	media?		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
	ROADMAP FOR THIRD PARTY COMPONENTS IN				
	DEVICE LIFE CYCLE (RDMP)				
	DEVICE LIFE CICLE (RDIVIF)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Manufacturer's plans for security support of third-		120 11 00001 1 1:2011	11131 31 333 33 11211 4	150 27 502.2015
	party components within the device's life cycle.				
	,,,,				
RDMP-1	Was a secure software development process, such	Yes			
	as ISO/IEC 27034 or IEC 62304, followed during				
	product development?		Section 5.14, RDMP	CM-2	None
RDMP-2	Does the manufacturer evaluate third-party	Yes			
	applications and software components included in				
	the device for secure development practices?				
22142 2	Describeration for the control of th		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-3	Does the manufacturer maintain a web page or	Yes			
	other source of information on software support dates and updates?		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
RDMP-4	Does the manufacturer have a plan for managing	Yes	Section 3.14, KDIVIF	CIVI-0	A.O.1.1, A.O.1.2
KDIVII -4	third-party component end-of-life?		Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	SOFTWARE BILL OF MATERIALS (SBoM)		IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	A Software Bill of Material (SBoM) lists all the				
	software components that are incorporated into the				
	device being described for the purpose of				
	operational security planning by the healthcare				
	delivery organization. This section supports controls				
SBOM-1	in the RDMP section. Is the SBoM for this product available?	Yes See SBoM sheet within this document.			
SBOM-2	Does the SBoM follow a standard or common	No See Show sheet within this document.			
]	method in describing software components?				
SBOM-2.1	Are the software components identified?	Yes			
SBOM-2.2	Are the developers/manufacturers of the software	Yes			
	components identified?	_			
SBOM-2.3	Are the major version numbers of the software	Yes			
	components identified?	_			
SBOM-2.4	Are any additional descriptive elements identified?	Yes			

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SBOM-3	Does the device include a command or process method available to generate a list of software components installed on the device?	No				
SBOM-4	Is there an update process for the SBoM?	Yes	Note 34			
	SYSTEM AND APPLICATION HARDENING (SAHD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The device's inherent resistance to cyber attacks and malware.				CM-7	A.12.5.1*
SAHD-1	Is the device hardened in accordance with any industry standards?	Yes	DISA STIG	Section 5.15, SAHD	AC-17(2)/IA-3	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2/None
SAHD-2	Has the device received any cybersecurity certifications?	No		Section 5.15, SAHD	SA-12(10)	A.14.2.7, A.15.1.1, A.15.1.2, A.15.1.3
SAHD-3	Does the device employ any mechanisms for software integrity checking	Yes		·	,	
SAHD-3.1	Does the device employ any mechanism (e.g., release-specific hash key, checksums, digital signature, etc.) to ensure the installed software is	Yes				
	manufacturer-authorized?		Note 35			
SAHD-3.2	Does the device employ any mechanism (e.g., release-specific hash key, checksums, digital signature, etc.) to ensure the software updates are	Yes				
SAHD-4	the manufacturer-authorized updates? Can the owner/operator perform software integrity	Vas	Note 36	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
JAN 4	checks (i.e., verify that the system has not been modified or tampered with)?		N-4- 25	Continue 5 45 CAUD	AG 3	A.6.2.2, A.9.1.2, A.9.4.1, A.9.4.4, A.9.4.5, A.13.1.1,
SAHD-5	Is the system configurable to allow the implementation of file-level, patient level, or other	Yes	Note 35	Section 5.15, SAHD	AC-3	A.14.1.2, A.14.1.3, A.18.1.3
	types of access controls?		Note 37	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-5.1	Does the device provide role-based access controls?	Yes	Note 37	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6	Are any system or user accounts restricted or disabled by the manufacturer at system delivery?	Yes	Note 38	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
SAHD-6.1	Are any system or user accounts configurable by the end user after initial configuration?	Yes		Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-6.2	Does this include restricting certain system or user accounts, such as service technicians, to least	See Notes				
SAHD-7	privileged access? Are all shared resources (e.g., file shares) which are not required for the intended use of the device	Yes	Note 39	Section 5.15, SAHD	CM-7	A.12.5.1*
	disabled?		_	Section 5.15, SAHD	CM-7	A.12.5.1*
SAHD-8	Are all communication ports and protocols that are not required for the intended use of the device disabled?	Yes		Section 5.15, SAHD	SA-18	None
SAHD-9	Are all services (e.g., telnet, file transfer protocol [FTP], internet information server [IIS], etc.), which are not required for the intended use of the device deleted/disabled?	Yes		Section 5.15, SAHD	CM-6	None
SAHD-10	Are all applications (COTS applications as well as OS-included applications, e.g., MS Internet Explorer, etc.) which are not required for the intended use of	Yes				A.12.6.1, A.14.2.2, A.14.2.3,
SAHD-11	the device deleted/disabled? Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Yes		Section 5.15, SAHD	SI-2	A.16.1.3
SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	See Notes	Note 40			
	on the device without the use of physical tools:		Note 41			

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SAHD-13	Does the product documentation include	No				
	information on operational network security					
	scanning by users?		_			
SAHD-14	Can the device be hardened beyond the default provided state?	See Notes	Note 42			
SAHD-14.1	Are instructions available from vendor for increased	Yes	Note 42			
371112 14.1	hardening?	103	Available upon request/discussion.			
SHAD-15	Can the system prevent access to BIOS or other	Yes				
SAHD-16	bootloaders during boot? Have additional hardening methods not included in	No	Note 40			
JAND-10	2.3.19 been used to harden the device?	INO				
	SECURITY GUIDANCE (SGUD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Availability of security guidance for operator and administrator of the device and manufacturer sales and service.					
SGUD-1	Does the device include security documentation for the owner/operator?	Yes	Note 43	Section 5.16, SGUD	AT-2/PL-2	A.7.2.2, A.12.2.1/A.14.1.1
SGUD-2	Does the device have the capability, and provide	Yes				
	instructions, for the permanent deletion of data		N	6 x 1 x x 5 4 6 6 6 1 1 D	140.6	A.8.2.3, A.8.3.1, A.8.3.2,
SGUD-3	from the device or media? Are all access accounts documented?	Yes	Note 44	Section 5.16, SGUD	MP-6	A.11.2.7 A.9.1.2, A.9.2.3, A.9.4.4,
3000-3	Are all access accounts documented:	163	Available upon request.	Section 5.16, SGUD	AC-6,IA-2	A.9.4.5/A.9.2.1
SGUD-3.1	Can the owner/operator manage password control for all accounts?	Yes				
SGUD-4	Does the product include documentation on	Yes				
	recommended compensating controls for the device?		Note 17			
	device:		Note 17			
	HEALTH DATA STORAGE CONFIDENTIALITY					
	(STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to ensure unauthorized access does not compromise the integrity and					
	confidentiality of personally identifiable information					
	stored on the device or removable media.					
CTCF 4	Can the device are much date at most?	V ₂ =		Section 5.17, STCF	SC-28	A.8.2.3
STCF-1 STCF-1.1	Can the device encrypt data at rest? Is all data encrypted or otherwise protected?	Yes Yes	 Note 45	Section 5.17, STCF	SC-28	A.8.2.3
STCF-1.2	Is the data encryption capability configured by	Yes				
	default?					
STCF-1.3	Are instructions available to the customer to configure encryption?	N/A				
STCF-2	Can the encryption keys be changed or configured?	Yes	Note 46	Section 5.17, STCF	SC-28	A.8.2.3
STCF-3	Is the data stored in a database located on the device?	Yes				
STCF-4	Is the data stored in a database external to the	No				
	device?					
	TRANSMISSION CONFIDENTIALITY (TXCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to ensure the confidentiality			13 111 23332 2 31232		
	of transmitted personally identifiable information.					
TXCF-1	Can personally identifiable information be	Yes				
	transmitted only via a point-to-point dedicated			Section 5.18, TXCF	CAA 7	A 12 F 1
	cable?	L	L	Section 5.18, IACF	CM-7	A.12.5.1

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TXCF-2	Is personally identifiable information encrypted prior	r See Notes				
TACI-2	to transmission via a network or removable media?	See Notes				
TXCF-2.1	If data is not encrypted by default, can the customer	Yes	Note 47	Section 5.18, TXCF	CM-7	A.12.5.1
	configure encryption options?		Note 47			
TXCF-3	Is personally identifiable information transmission restricted to a fixed list of network destinations?	Yes		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-4	Are connections limited to authenticated systems?	No		Section 5.18, TXCF	CM-7	A.12.5.1
TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	No		Section 3.10, their	CIVI 7	A.IZ.J.I
	TRANSMISSION INTEGRITY (TXIG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	The ability of the device to ensure the integrity of transmitted data.					
TXIG-1	Does the device support any mechanism (e.g., digita signatures) intended to ensure data is not modified during transmission?	l No		Section 5.19, TXIG	SC-8	A.8.2.3, A.13.1.1, A.13.2.1, A.13.2.3, A.14.1.2, A.14.1.3
TXIG-2	Does the device include multiple sub-components connected by external cables?	No	_			
	REMOTE SERVICE (RMOT) Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
RMOT-1	Does the device permit remote service connections for device analysis or repair?	Yes			AC-17	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2
RMOT-1.1	Does the device allow the owner/operator to initiative remote service sessions for device analysis or repair?	No				
RMOT-1.2	Is there an indicator for an enabled and active remote session?	No				
RMOT-1.3	Can patient data be accessed or viewed from the device during the remote session?	Yes			AC-17	A.6.2.1, A.6.2.2, A.13.1.1, A.13.2.1, A.14.1.2
RMOT-2	Does the device permit or use remote service connections for predictive maintenance data?	Yes				
RMOT-3	Does the device have any other remotely accessible functionality (e.g. software updates, remote training)?	Yes	Note 48			
	OTHER SECURITY CONSIDERATIONS (OTHR) NONE			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
	Notes:					
Note 1	Device contains a limited amount of ePHI to identify images - typically a name, date of birth, patient ID, and accession number.					

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Note 2	Patient procedures may be deleted by privileged users on demand and/or automatically by product application reclaimer. Reclaimer times and thresholds configurable.			
Note 3	Database encrypted with Microsoft Always Encrypted technology.			
Note 4	Optional printing of patient images.			
Note 5	Optional importing and exporting of patient procedures.			
Note 6	Typically an RJ45 Ethernet connection or wifi connection.			
Note 7	Product application screensaver displayed after a configurable idle timeout, defaulting to 15 minutes. Windows can optionally be configured to lock the system, requiring reauthentication at the OS layer, after configurable amount of time.			
Note 8	Software installation and updates are logged.			
Note 9	Log date/time stamp based on current Windows date/time for the system.			
Note 10	Windows can be configured with an NTP server.			
Note 11	Can be exported and downloaded by remote or local service users via the product Service Tools web application.			
Note 12	Audit and application log files encrypted. Application log files also have PHI one-way hashed.			
Note 13	User login with password via Windows.			
Note 14	It's strongly recommended to limit policy changes pushed to the device to User related policies only, such as password complexity requirements, forcing passwords to expire, etc. There are certain policy changes that, if pushed, could negatively impact the product application.			
Note 15	Strongly recommend configuring the product in its own Organizational Unit and limiting policy changes pushed to the system.			
Note 16	See product support website for list of validated security patches. Validation of latest security patches performed at regular intervals for the product. We strongly encourage only applying patches or software updates that have been validated by Hologic.			
Note 17	Microsoft Windows Defender enabled by default. Option available to install validated CoTS antimalware products. See product support website for list of validated antimalware software solutions and installation guidance. Malware definitions can be updated by customer at will. Hologic suggests keeping antimalware software version at the same major version as what was validated.			
Note 18	Validated security patches for the product are posted to the product support website at regular intervals.			

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Note 10	Vide and illiteration and a least and in the state of			
Note 19	Vulnerability assessments, leveraging industry standard tools, and Windows security patch validation occur at regular intervals.			
Note 20	Hologic strives to evaluate and test Windows			
	security updates for the product as they're released (typically monthly).			
Note 21	Software databases and configurations are			
	automatically backed up at regular intervals. Patient studies should be stored to long term storage or			
	exported to external media by the customer.			
Note 22	Product not designed for long term storage. Patient			
	studies should be stored to long term storage.			
Note 23	See antimalware software installation guide on			
	product support website for required scan exemptions and configurations.			
Note 24	By default, product operates as a Kiosk with			
	Windows taskbar notifications disabled/suppressed			
	as to not interfere with product application use.			
	Configurations can be modified upon request. CoTS antimalware products often provide a manager that			
	allows for email alerts and notifications to the			
	appropriate personnel.			
Note 25	Windows Defender and approved CoTS antimalware			
	software typically have a history feature and/or log.			
Note 26	Windows Firewall enabled and configured to allow			
	product application network traffic. Patient data only sent to configured DICOM devices.			
Note 27	Hologic Connect leverages an encrypted TLS tunnel for remote Service connectivity. TLS can, optionally,			
	be configured for the product Service Tools			
	configuration web application. External network			
	traffic can also be blocked for Service Tools. Patient			
	study transmission to external devices is done using DICOM, without TLS. Customer may configure TLS at			
	the network layer.			
Note 28	Use of unique product accounts is the decision of the			
	customer. Generic accounts (i.e. Rad Tech) can be			
Note 20	removed.			
Note 29	Enabled by default, locking the user for 5 minutes after 10 failed logon attempts. Configurable by			
	customer.			
Note 30	Configured by default to require complex passwords			
	by Microsoft standards, with a minimum length of 8 characters. Configurable by customer.			
	characters. Configurable by customer.			
Note 31	Passwords not configured to automatically expire by default. Configurable by customer.			
Note 32	Fingerprint scanner currently not available for this product.			
Note 33	Product application leverages Windows Operating			
	System for user authentication. Credentials not			
	stored in application databases. Credentials stored/managed securely via Operating System.			
	Stored/managed securely via Operating System.			

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	· · ·			
Note 34	SBOM reviewed and updated as required during product update cycles.			
Note 35	Product application performs integrity check of all static binary files during startup. Application libraries leverage .NET code signing.			
Note 36	Software update install packages include integrity checks for all packaged files. Integrity check automatically performed during installations.			
Note 37	Product utilizes role-based privileges for many sensitive areas of the application. For example, a privileged user (i.e Tech Manager) is required to delete patient procedures.			
Note 38	Default product application users can be removed. Windows Administrator and Guest account renamed and disabled.			
Note 39	Service users require admin privileges for many of their responsibilities. Customer may customize those privileges or disable service accounts to restrict access, but should communicate these changes to their service representative. Implementing service user restrictions requires customers to provide access as needed for servicing the product.			
Note 40	Can be configured, not restricted by default. If configured, communicate change to service representative.			
Note 41	Hardware installation would require tools, software would require OS authentication.			
Note 42	Hologic has hardened the product against DISA STIG guidelines and vulnerability assessments. Additional hardening or concerns may be discussed with Hologic. Implementing additional hardening changes may negatively impact the product.			
Note 43	Security documentation available on product support website.			
Note 44	Product user manual contains details for deleting patient studies as a privileged application user. For permanent deletion of all sensitive data, contact support.			
Note 45	Sensitive PII stored to disk and/or the product databases are encrypted with AES 256. PII stored to application logs are both encrypted and one-way hashed.			
Note 46	Changes to encryption keys should be done at time of installation and can be modified upon request.			
Note 47	Exporting patient studies to removable media has an option for de-identifying. Network transmission is typically over standard DICOM and can be encrypted at the network level.			
Note 48	Remote configuration of product via Service Tools web application. Ability to push approved software changes over Hologic Connect.			

Software	Bill of	Materials	(SBoM)	

Component Name	Developer	Version(s)	Product Use
Windows 10 IoT Enterprise x64	Microsoft	LTSC 2019	Operating System
SQL Server 2017 Express	Microsoft	14.0.3048.4	Product application database software.
.NET Framework	Microsoft	3.5	Product application support libraries.
		4.7.2	
Internet Information Services (IIS)	Microsoft	10.0.17763.1	Product configuration web application.
Internet Explorer 11	Microsoft	11.379.17763.0	Microsoft Edge not available for product OS (IoT).
Visual C++ Redistributable	Microsoft	9.0.30729.17	Product application support libraries.
		10.0.40219.325	
		12.0.21005	
		14.12.25810	
NVIDIA Graphics Driver	NVIDIA	25.21.14.1935	Graphics Card (GPU)
MediCal QAWeb Agent	Barco	1.13.1700	Barco Monitor QA software.
Sentinel LDK and Sentinel HASP Run-time Environment	SafeNet, Inc.	7.80	License Dongle
Cygwin	Open Source	2.8.0	Hologic Connect
OpenSSH	Open Source	7.5p1	Hologic Connect
TightVNC	GlavSoft	2.8.8.0	Hologic Connect
			Configured for localhost connection only.
DCF	Laurel Bridge Software	3.3.12.369	Dicom Communication
IronPython	Open Source	2.7.5	Hologic Connect
Nant	Open Source	0.91.4312.0	Application setup/unsetup
PCAN	PEAK-System Technik GmbH	1.3.3.61	CAN API library
PCAN Driver	PEAK-System Technik GmbH	3.6.3.9864	CAN Driver
NirCmd	NirSoft	2.6.5.215	Screenshot during application crash.
CodeSmith	Eric J. Smith	2.6.0.117	Development Tool
ExcelML Writer	Carlos Ag	1.0.0.6	Development Tool
Dev Express	Developer Express Inc.	7.2.11.0	Development Tool
Nunit	Nunit Software	3.4.1.0	Development Tool
Nsubstitute	Open Source (Nsubsitute Team)	1.4.3.0	Development Tool
CUDA	NVIDIA	6.14.11.8000	Image processing and display
Json.NET	Newtonsoft	11.0.2.21924	Development Tool
Additional Notes			
Note 1	Some of the software components		
	listed above are covered by Hologic's		
	program to regularly validate latest		
	released security patches. See the		
	product support website for the latest		
	validated patches available or contact		
	support for assistance.		