Artwork and Signature File for:

MAN-06703 "MANUAL, BREVERA 1.1, MDS2 SHEET"

Artwork consists of:

• Nineteen (19) 8 ½ inch x 11 inch sheet(s) attached, landscape mode

REV AUTHORED BY M. GROSNER REV DRAFTED BY	DATE 10/6/2020 DATE 10/6/2020	HOLOGIC	SIGNATI ON FI	J <mark>RES</mark> LE	
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		AW, MANUAL, BREVERA 1.1, MDS2 SHEET	AW-20954 00		001
		ARTWORK	SIZE A SHEET 1 OF 1		OF 1
		Before using this document, please consult Agile	ENG-0034	-T33, Rev. 004	

1 Manufacturer Disclosure Statement for Medical Device Security MDS2 Hologic, Inc. Brevera 1.1 4 Question ID 2 0 3 0 4 Question ID 0C-1 Manufacturer Name 10-0ct-2020 0 5 D0C-1 0 Doc-2 0 Device Description 5 pecimen Radiography System 7 D0C-3 0 Document ID MAN-06703 Revision 001 0 0 Chris Fischer 9 0 00C-6 Intended use of device in network-connected Acquisition and Imaging of breast 10 environment: 11 D0C-7 0 Coordinated Winerability Disclosure: Does the manufacturer have a vulnerability disclosure program 12 Doc-8		1
1 Manufacturer Disclosure Statement for Medical Device Security MDS2 4 Hologic, Inc. Brevera 1.1 MAN-06703 Revision 001 10-Oct-2020 3 - - - - - 4 Question ID Question See note IEC TR 80001-2-2:2012 N 5 DOC-1 Manufacturer Name Hologic, Inc.		,
Hologic, Inc. Brevera 1.1 MAN-06703 Revision 001 10-Oct-2020 3		
2 Image: specific problem in the specific program in the		
3		
4 Question ID Question See note IEC TR 80001-2-2:2012 N 5 DOC-1 Manufacturer Name Hologic, Inc.		
4 Question ID Question See note IEC 1R 80001-2-2:2012 N 5 DOC-1 Manufacturer Name Hologic, Inc.		100 27002-2012
5 DDC-1 Manufacturer Name Hologic, Inc.	NIST SP 800-53 Rev. 4	150 27002:2013
6 DOC-2 Device Description Specimen Radiography System		
7 DOC-3 Device Model Brevera 1.1		
8 DOC-4 Document ID MAN-06703 Revision 001		
DOC-5 Manufacturer Contact Information Chris Fischer Chris.Fischer@Hologic.com		
9 Chris.Fischer@Hologic.com Chris.Fischer@Hologic.com DOC-6 Intended use of device in network-connected environment: Acquisition and Imaging of breast tissue specimen samples. 10 environment: tissue specimen samples. 11 DOC-7 Document Release Date 10/10/2020 DOC-8 Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program No 12 for this device 2 Image: Construction of the device 2		
DOC-6 Intended use of device in network-connected Acquisition and Imaging of breast		
10 environment: tissue specimen samples. 11 DOC-7 Document Release Date 10/10/2020 DOC-8 Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program No 12 for this device 2		
11 DOC-7 Document Release Date 10/10/2020 DOC-8 Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program No 12 for this device?		
DOC-8 Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program No 12 for this device?		
manufacturer have a vulnerability disclosure program		
12 for this device?		
ie lot this device.		
DOC-9 ISAO: Is the manufacturer part of an Information No		
13 Sharing and Analysis Organization?		
DOC-10 Diagram: Is a network or data flow diagram available Yes, available upon request.		
that indicates connections to other system		
components or expected external resources?		
14		
DOC-11 SaMD: Is the device Software as a Medical Device (i.e. No		
15 software-only no hardware/?		
16 DOC-11 1 Does the SaMD contain a operating system? N/A		
DOC-11.2 Does the SaMD rely on an owner/onerstern provided N/A		
DOC-11.3 Is the SaMD hosted by the manufacturer? N/A		
18		
19 DOC-11.4 Is the SaMD hosted by the customer? N/A		
20		
Yes, No, Note #		
N/A, or		
21 See Notes		
MANAGEMENT OF PERSONALLY IDENTIFIABLE IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
22 INFORMATION		
MPII-1 Can this device display, transmit, store, or modify Yes Note 1	IR-2	A.15.1.4
personally identifiable information (e.g. electronic		
23 Protected Health Information (ePHII)?		
MPII-2 Does the device maintain personally identifiable Yes	R-2	A.15.1.4
24 information?		
MPII-2.1 Does the device maintain personally identifiable Yes	R-2	A.15.1.4
information temporarily in volatile memory (i.e., until		
25 cleared by nower-off or reset)?		
MPII-2.2 Does the device store personally identifiable Yes		
26 information persistently on internal metical 2		
MPII-2 3 Is personally identifiable information preserved in the Ves Note 2		
device's non-voltable memory until explicitly eraced?		
27		
MPII-2.4 Does the device store personally identifiable Yes Note 3		
28 information in a database?		

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2							
	MPII-2.5	Does the device allow configuration to automatically	Yes			AR-2	A.15.1.4
		delete local personally identifiable information after					
		it is stored to a long term solution?					
29							
	MPII-2.6	Does the device import/export personally identifiable	Yes	—		AR-2	A.15.1.4
		information with other systems (e.g., a wearable					
20		identifiable information to a convert?					
30	MPII-2 7	Does the device maintain personally identifiable	Ves			ΔR-2	Δ 15 1 4
		information when powered off, or during power					
31		service interruptions?					
	MPII-2.8	Does the device allow the internal media to be	Yes				
		removed by a service technician (e.g., for separate					
32		destruction or customer retention)?					
	MPII-2.9	Does the device allow personally identifiable	No			AR-2	A.15.1.4
		information records be stored in a separate location					
		from the device's operating system (i.e. secondary					
22		internal drive, alternate drive partition, or remote					
33	MDIL 2	storage location)?	Voc				A 1E 1 A
	IVIF II-5	transmitting importing/exporting of personally		—		AN-2	A.13.1.4
34		identifiable information?					
	MPII-3.1	Does the device display personally identifiable	Yes			AR-2	A.15.1.4
35		information (e.g., video display, etc.)?					
	MPII-3.2	Does the device generate hardcopy reports or images	Yes	Note 4		AR-2	A.15.1.4
		containing personally identifiable information?					
36							
	MPII-3.3	Does the device retrieve personally identifiable	Yes	Note 5		AK-2	A.15.1.4
		information to removable media (e.g. removable-					
		HDD_USB_memory_DVD-R/RW_CD-R/RW_tape_CE/SD					
37		card, memory stick, etc.)?					
	MPII-3.4	Does the device transmit/receive or import/export	Yes			AR-2	A.15.1.4
l		personally identifiable information via dedicated					
		cable connection (e.g., RS-232, RS-423, USB, FireWire,					
38		etc.)?					
l	MPII-3.5	Does the device transmit/receive personally	Yes	Note 6		AR-2	A.15.1.4
20		identifiable information via a wired network					
39	MPII-3.6	Does the device transmit/receive personally	Ves			ΔR-2	Δ 15 1 4
l		identifiable information via a wireless network		-			
		connection (e.g., WiFi, Bluetooth, NFC, infrared,					
40		cellular, etc.)?					
	MPII-3.7	Does the device transmit/receive personally	No			AR-2	A.15.1.4
		identifiable information over an external network					
41		(e.g., Internet)?					
	MPII-3.8	Does the device import personally identifiable	No	—			
42		Information via scanning a document?	No				
l	1711-3.9	identifiable information via a proprietary protocol		—			
43		activities information via a proprietary protocol!					

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2							
	MPII-3.10	Does the device use any other mechanism to	No			AR-2	A.15.1.4
		transmit, import or export personally identifiable					
44		information?					
45	Management of Privat	e Data notes:				AR-2	A.15.1.4
46							
47							
48		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					
49		time.					
	ALOF-1	Can the device be configured to force reauthorization	Yes	Note 7	Section 5.1, ALOF	AC-12	None
		of logged-in user(s) after a predetermined length of					
		inactivity (e.g., auto-logoff, session lock, password					
50		protected screen saver)?					
50		la tha langth of inactivity times hafays outs	Vec	Noto 7		AC 11	A 11 2 8 A 11 2 0
	ALUF-2	logoff/scroop lock user or administrator	Tes	Note /	Section 5.1, ALOP	AC-11	A.11.2.0, A.11.2.9
51							
52							
53							
55		AUDIT CONTROLS (AUDT)			IEC TP 80001-2-2.2012	NIST SP 800-53 Poy 4	150 27002.2012
54		The shills to solichly sudit activity on the device			ILC IN 80001-2-2.2012	NIST SF 800-33 Nev. 4	130 27002.2013
55		Can the medical device create additional audit logs or	Voc		Section 5.2 AUDT	AUL1	A 5 1 1 A 5 1 2 A 6 1 1
	AUDI-1	can the medical device create additional addit logs of	165	—	Section 5.2, AODT	40-1	A.5.1.1, A.5.1.2, A.0.1.1,
56		reports beyond standard operating system logs:					Δ 18 2 2
57	AUDT-1.1	Does the audit log record a USER ID?	Yes				/.10.2.2
	AUDT-1.2	Does other personally identifiable information exist	Yes		Section 5.2. AUDT	AU-2	None
58		in the audit trail?					
	AUDT-2	Are events recorded in an audit log? If yes, indicate	Yes		Section 5.2, AUDT	AU-2	None
		which of the following events are recorded in the					
59		audit log:					
60	AUDT-2.1	Successful login/logout attempts?	Yes		Section 5.2, AUDT	AU-2	None
61	AUDT-2.2	Unsuccessful login/logout attempts?	Yes		Section 5.2, AUDT	AU-2	None
62	AUDT-2.3	Modification of user privileges?	Yes		Section 5.2, AUDT	AU-2	None
63	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 5.2, AUDT	AU-2	None
64		print)?	<u>,</u>				
65	AUDI-2.6	Lreation/modification/deletion of data?	Yes	<u> </u>	Section 5.2, AUDT	AU-2	None
	AUD1-2.7	Import/export of data from removable media (e.g.	Yes		Section 5.2, AUDI	AU-2	None
66		USB urive, external nard drive, DVD)?	Voc		Section E.2. AUDT		Nana
67	AUD1-2.8	Receipt/transmission of data or commands over a	ies		Section 5.2, AUDT	AU-2	None
68		Pomoto or on sito support?	Voc		Section 5.2 AUDT	A11-2	Nono
00	AUDT-2.8.1	Application Programming Interface (API) and similar	N/A		Section 5.2, AUDT	Δ11-2	None
69	1.001-2.0.2	activity?					
70	AUDT-2.9	Emergency access?	N/A		Section 5.2. AUDT	AU-2	None
71	AUDT-2.10	Other events (e.g., software updates)?	Yes	Note 8	Section 5.2, AUDT	AU-2	None
72	AUDT-2.11	Is the audit capability documented in more detail?	No		Section 5.2, AUDT	AU-2	None
	AUDT-3	Can the owner/operator define or select which	No		Section 5.2, AUDT	AU-2	None
73]	events are recorded in the audit log?					

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1				DSZ			
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2		to a list of data attack when the to an another of in the	N	As well when a second second second		AUL 2	News
74	AUDI-4	is a list of data attributes that are captured in the	res	Available upon request.	Section 5.2, AUDT	AU-2	None
74		audit log for an event available?	Vec	Note 0	Contine 5.2 AUDT	AUL 2	Nana
75		Con date and time he synchronized by Network Time	Yes	Note 10	Section 5.2, AUDT	AU-2	None
76	AUD1-4.1.1	Protocol (NTP) or equivalent time source?	res	Note 10	Section 5.2, AODT	A0-2	None
77	AUDT-5	Can audit log content be exported?	Yes		Section 5.2 AUDT	AU-2	None
78	AUDT-5.1	Via physical media?	Yes				
	AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA)	No				
79		profile to SIEM?		_			
	AUDT-5.3	Via Other communications (e.g., external service	Yes	Note 11			
80		device, mobile applications)?					
	AUDT-5.4	Are audit logs encrypted in transit or on storage	Yes	Note 12			
81		media?					
	AUDT-6	Can audit logs be monitored/reviewed by	Yes				
82		owner/operator?					
83	AUDT-7	Are audit logs protected from modification?	Yes		Section 5.2, AUDT	AU-2	None
84	AUDT-7.1	Are audit logs protected from access?	Yes			AUL 2	News
85	AUDI-8	Can audit logs be analyzed by the device?	INO		Section 5.2, AUDT	AU-2	None
87							
07					IEC TR 80001 2 2.2012		150 27002.2012
88					IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	150 27002:2013
80		authorization of users					
09	ALITH-1	Does the device prevent access to unauthorized users	Vec	Note 13	Section 5.3 AUTH	14-2	4921
	AUTIFI	through user login requirements or other		Note 15	Section 5.5, Aom		7.3.2.1
90		mechanism?					
	AUTH-1.1	Can the device be configured to use federated	Yes	Active Directory	Section 5.3, AUTH	IA-2	A.9.2.1
		credentials management of users for authorization					
91		(e.g., LDAP, OAuth)?					
	AUTH-1.2	Can the customer push group policies to the device	See Notes	Note 14	Section 5.3, AUTH	IA-2	A.9.2.1
92		(e.g., Active Directory)?					
	AUTH-1.3	Are any special groups, organizational units, or group	Yes	Note 15	Section 5.3, AUTH	IA-2	A.9.2.1
93		policies required?					
	AUTH-2	Can users be assigned different privilege levels based	Yes		Section 5.3, AUTH	IA-2	A.9.2.1
04		on role (e.g., user, administrator, and/or service,					
94		Can the device owner/operator grant themselves	Vec		Section 5.3 AUTH	14-2	4921
	Autilia	unrestricted administrative privileges (e.g. access			Section 5.5, Aom		7.3.2.1
		operating system or application via local root or					
95		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
96		requests?					
	AUTH-5	Does the device run in a restricted access mode, or	Yes				
97		'kiosk mode', by default?					
98							
99							
100		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					
101		device's security patches.					

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2						
	CSUP-1	Does the device contain any software or firmware	Yes			
		which may require security updates during its				
		operational life, either from the device manufacturer				
		software/firmware? If no answer "N/A" to questions				
102		in this section.				
	CSUP-2	Does the device contain an Operating System? If yes,	Yes			
103		complete 2.1-2.4.				
	CSUP-2.1	Does the device documentation provide instructions	Yes	Note 16		
104		for owner/operator installation of patches or software updates?				
104	CSUP-2.2	Does the device require vendor or vendor-authorized	No			
		service to install patches or software updates?				
105						
	CSUP-2.3	Does the device have the capability to receive remote	Yes			
		installation of patches or software updates?				
106		Doos the medical device manufacturer allow security	See Notes	Noto 16		
	C30P-2.4	updates from any third-party manufacturers (e.g.	see Notes	Note 16		
		Microsoft) to be installed without approval from the				
107		manufacturer?				
	CSUP-3	Does the device contain Drivers and Firmware? If yes,	Yes			
108		complete 3.1-3.4.				
	CSUP-3.1	Does the device documentation provide instructions	No			
109		for owner/operator installation of patches or software undates?				
105	CSUP-3.2	Does the device require vendor or vendor-authorized	Yes			
		service to install patches or software updates?				
110						
	CSUP-3.3	Does the device have the capability to receive remote	Yes			
111		installation of patches or 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				
112		manufacturer?				
117	CSUP-4	Does the device contain Anti-Malware Software? If	Yes	Note 17		
113		yes, complete 4.1-4.4.	Vac	Note 17		
		for owner/operator installation of patches or				
114		software updates?				
	CSUP-4.2	Does the device require vendor or vendor-authorized	See Notes	Note 17		
.		service to install patches or software updates?				
115		Dees the device have the capability to reive	Vec	Noto 17		
	C30P-4.3	ustallation of patches or software undates?	Tes	Note 17		
116		instance of or patenes of software updates:				
	CSUP-4.4	Does the medical device manufacturer allow security	See Notes	Note 17		
		updates from any third-party manufacturers (e.g.,				
		Microsoft) to be installed without approval from the				
117		manufacturer?				

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1	ivialiulacture		a Device Security IVI	DJL		
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2						
	CSUP-5	Does the device contain Non-Operating System	Yes	—		
110		commercial off-the-shelf components? If yes,				
118		complete 5.1-5.4.	No			
	CSUP-5.1	Does the device documentation provide instructions	NO	—		
110		software undates?				
119	CSLIP-5.2	Software upudles?	Ves			
	0.001-0.2	service to install natches or software undates?		—		
120		set the to instan patenes of software updates!				
	CSUP-5.3	Does the device have the capability to receive remote	Yes			
		installation of patches or software updates?				
121		· ·				
	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				
122		manufacturer?				
	CSUP-6	Does the device contain other software components	No	—		
		(e.g., asset management software, license				
122		management)? If yes, please provide details or				
123		Telerrice In notes and complete 6.1-6.4.	N/A			
	C307-0.1	for owner/operator installation of patches or		—		
124		software undates?				
	CSUP-6.2	Does the device require vendor or vendor-authorized	N/A			
		service to install patches or software updates?		—		
125						
	CSUP-6.3	Does the device have the capability to receive remote	N/A			
		installation of patches or software updates?				
126						
	CSUP-6.4	Does the medical device manufacturer allow security	N/A			
		updates from any third-party manufacturers (e.g.,				
107		Microsoft) to be installed without approval from the				
12/		manuracturer?	Voc	Noto 19		
128	C30F-/	undates are approved for installation?	163	10/10 10		
120	CSUP-8	Does the device perform automatic installation of	No			
129		software updates?		—		
	CSUP-9	Does the manufacturer have an approved list of third-	Yes	Note 17		
		party software that can be installed on the device?				
130						
	CSUP-10	Can the owner/operator install manufacturer-	Yes	Note 17		
		approved third-party software on the device				
131		themselves?				
	CSUP-10.1	Does the system have mechanism in place to prevent	No	—		
132		installation of unapproved software?				
122	CSUP-11	Does the manufacturer have a process in place to	Yes	Note 19		
133		assess device vulnerabilities and updates?	Voc	Noto 19		
13/	C307-11.1	roviow and approval status of undates?		INUCE TO		
125	CSUP-11 2	Is there an undate review cycle for the device?	Vac	Note 20		
ככין	0001 11.2	is there all update review cycle for the device?	163	NULC ZU		1

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2	nologic, me.			10-001-2020			
136							
137							
138							
139		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					
140		information that allows identification of a person.					
	DIDT-1	Does the device provide an integral capability to de-	Yes		Section 5.6, DIDT	None	ISO 27038
141		identify personally identifiable information?					
	DIDT-1.1	Does the device support de-identification profiles	Yes		Section 5.6, DIDT	None	ISO 27038
142		that comply with the DICOM standard for de-					
142		Identification?					
144							
		DATA BACKUP AND DISASTER RECOVERY (DTBK)			IFC TR 80001-2-2.2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
145							100 27002.2010
		The ability to recover after damage or destruction of					
		device data, hardware, software, or site					
146		configuration information.					
	DTBK-1	Does the device maintain long term primary storage	No				
1 47		of personally identifiable information / patient					
147		Information (e.g. PACS)?	Voc		Saction 5.7 DTPK		A 12 2 1
	DIBK-2	restore the original device settings as provided by the	Tes		Section 5.7, DTBR	CF-9	A.12.5.1
148		manufacturer?					
	DTBK-3	Does the device have an integral data backup	Yes	Note 21	Section 5.7, DTBK	CP-9	A.12.3.1
149		capability to removable media?					
	DTBK-4	Does the device have an integral data backup	Yes	Note 21			
150		capability to remote storage?					
	DTBK-5	Does the device have a backup capability for system	Yes	Note 21			
151		configuration information, patch restoration, and					
131	DTBK-6	Does the device provide the capability to check the	No		Section 5.7 DTBK	CP-9	Δ 12 3 1
152	DIDKO	integrity and authenticity of a backup?					/
153							
154							
155		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					
150		to stored personally identifiable information.					
156	EMPC 1	Doos the douise incorporate on emerger success	No		Section E.S. EMBC	CI 17	Nono
157	EIVIKG-1	lie "break-glass") feature?	INO	—	Section 5.8, EIVIRG	51-17	None
158		nie. break-glass / reature?					
159	1						
F		HEALTH DATA INTEGRITY AND AUTHENTICITY			IFC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
160		(IGAU)					
		How the device ensures that the stored data on the					
		device has not been altered or destroyed in a non-					
161		authorized manner and is from the originator.					

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2							
	IGAU-1	Does the device provide data integrity checking	No		Section 5.9, IGAU	SC-28	A.18.1.3
		mechanisms of stored health data (e.g., hash or					
162		digital signature)?					
	IGAU-2	Does the device provide error/failure protection and	No	Note 22	Section 5.9, IGAU	SC-28	A.18.1.3
162		recovery mechanisms for stored health data (e.g.,					
164		KAID-5)?					
165							
166		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					
167		and remove malicious software (malware).					
	MLDP-1	Is the device capable of hosting executable software?	Yes		Section 5.10, MLDP		
168							
	MLDP-2	Does the device support the use of anti-malware	Yes	Note 17	Section 5.10, MLDP	SI-3	A.12.2.1
		software (or other anti-malware mechanism)?					
169		Provide details or reference in notes.	Vec	Noto 17	Continue F 10 MUDD	Cha F	
	WILDP-2.1	dofault2	res	Note 17	Section 5.10, MLDP	CM-5	A.9.2.3, A.9.4.5, A.12.1.2,
170							A.12.1. 4 , A.12.3.1
	MLDP-2.2	Does the device have anti-malware software	Yes	Note 17	Section 5.10, MLDP	AU-6	A.12.4.1, A.16.1.2,
171		available as an option?					A.16.1.4
	MLDP-2.3	Does the device documentation allow the	Yes	Note 17	Section 5.10, MLDP	CP-10	A.17.1.2
		owner/operator to install or update anti-malware					
172		software?	Vec	Nata 22	Continue F 10 MUDD	AU 2	Nana
173	WILDP-2.4	configure anti-malware settings?	res	Note 25	Section 5.10, MLDP	A0-2	None
	MLDP-2.5	Does notification of malware detection occur in the	See Notes	Note 24			
174		device user interface?					
	MLDP-2.6	Can only manufacturer-authorized persons repair	Yes				
175		systems when malware has been detected?					
176	MLDP-2.7	Are malware notifications written to a log?	Yes	Note 25			
177	IVILUP-2.8	Are there any restrictions on anti-maiware (e.g.,	res	Note 23			
	MLDP-3	If the answer to MLDP-2 is NO, and anti-malware	N/A		Section 5.10. MLDP	SI-2	A.12.6.1. A.14.2.2.
		cannot be installed on the device, are other	<i>`</i>				A.14.2.3, A.16.1.3
178		compensating controls in place or available?					,
	MLDP-4	Does the device employ application whitelisting that	No		Section 5.10, MLDP	SI-3	A.12.2.1
		restricts the software and services that are permitted					
179		to be run on the device?					
120	IVILUP-5	Does the device employ a nost-based intrusion	NO		Section 5.10, MLDP	51-4	None
100	MI DP-5 1	Can the host-based intrusion detection/prevention	N/A		Section 5.10 MLDP	CM-7	A 12 5 1
		system be configured by the customer?					
181							
	MLDP-5.2	Can a host-based intrusion detection/prevention	No		Section 5.10, MLDP		
182		system be installed by the customer?					
183							
184					IFC TD 90001 2 2:2012		150 27002-2012
185					IEC TR 80001-2-2:2012	INIST SP 800-53 Kev. 4	150 27002:2013
100		The ability of the device to authenticate					
100		communication partners/nodes.					

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2	NAUT 1	Does the device provide/support any means of pode	Vos		Section 5.11 NAUT	SC-22	Nono
	NAUTI	authentication that assures both the sender and the	163			30-23	None
		recipient of data are known to each other and are					
		authorized to receive transferred information (e.g.					
187		Web APIs, SMTP, SNMP)?					
	NAUT-2	Are network access control mechanisms supported	Yes	Note 26	Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3,
		(E.g., does the device have an internal firewall, or use					A.13.2.1,A.14.1.3
188		a network connection white list)?					
	NAUT-2.1	Is the firewall ruleset documented and available for	Yes	Available upon request.			
189		review?					
	NAUT-3	Does the device use certificate-based network	No				
190		connection authentication?					
191							
102		CONNECTIVITY CAPABILITIES (CONN)			IEC TP 80001-2-2.2012	NIST SP 800-53 Poy 4	150 27002-2012
193		All network and removable media connections must			ILC IN 80001-2-2.2012	NIST SF 800-33 Kev. 4	130 27002.2013
		be considered in determining appropriate security					
		controls. This section lists connectivity capabilities					
194		that may be present on the device.					
	CONN-1	Does the device have hardware connectivity	Yes				
195		capabilities?					
196	CONN-1.1	Does the device support wireless connections?	Yes				
197	CONN-1.1.1	Does the device support Wi-Fi?	Yes				
198	CONN-1.1.2	Does the device support Bluetooth?	No				
100	CONN-1.1.3	Does the device support other wireless network	NO	—			
199	CONN-1.1.4	Does the device support other wireless connections	No				
	CONN 1.1.4	(e.g., custom RE controls, wireless detectors)?					
200		(8-)					
201	CONN-1.2	Does the device support physical connections?	Yes				
	CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	Yes				
202							
203	CONN-1.2.2	Does the device have available USB ports?	Yes				
204	CONN-1.2.3	Does the device require, use, or support removable	Yes	Note 5			
204	CONN-1 2 4	Does the device support other physical connectivity?	Ves				
205	00111 1.2.4						
	CONN-2	Does the manufacturer provide a list of network	Yes	Available upon request.			
		ports and protocols that are used or may be used on					
206		the device?					
	CONN-3	Can the device communicate with other systems	Yes				
207		within the customer environment?					
	CONN-4	can the device communicate with other systems	Yes				
208		external to the customer environment (e.g., a service					
209	CONN-5	Does the device make or receive API calls?	No				
	CONN-6	Does the device require an internet connection for its	No				
210		intended use?					
	CONN-7	Does the device support Transport Layer Security	Yes	Note 27			
211		(TLS)?					
212	CONN-7.1	Is TLS configurable?	Yes	Note 27			

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213	CONN-8	Does the device provide operator control functionality from a separate device (e.g., telemedicine)?	No				
214							
215							
216		PERSON AUTHENTICATION (PAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
217		The ability to configure the device to authenticate users.					
218	PAUT-1	Does the device support and enforce unique IDs and passwords for all users and roles (including service accounts)?	Yes	Note 28	Section 5.12, PAUT	IA-2	A.9.2.1
219	PAUT-1.1	Does the device enforce authentication of unique IDs and passwords for all users and roles (including service accounts)?	Yes	Note 28	Section 5.12, PAUT	IA-2	A.9.2.1
220	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
221	PAUT-3	Is the device configurable to lock out a user after a certain number of unsuccessful logon attempts?	Yes	Note 29	Section 5.12, PAUT	IA-2	A.9.2.1
222	PAUT-4	Are all default accounts (e.g., technician service accounts, administrator accounts) listed in the documentation?	No		Section 5.12, PAUT	SA-4(5)	A.14.1.1, A.14.2.7, A.14.2.9, A.15.1.2
223	PAUT-5	Can all passwords be changed?	Yes		Section 5.12, PAUT		
224	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
225	PAUT-7	Does the device support account passwords that expire periodically?	Yes	Note 31			
226	PAUT-8	Does the device support multi-factor authentication?	No				
227	PAUT-9	Does the device support single sign-on (SSO)?	Yes	Active Directory	Section 5.12, PAUT	IA-2	A.9.2.1
228	PAUT-10	Can user accounts be disabled/locked on the device?	Yes		Section 5.12, PAUT	IA-2	A.9.2.1
229	PAUT-11	Does the device support biometric controls?	No	Note 32	Section 5.12, PAUT	IA-2	A.9.2.1
230	PAUT-12	Does the device support physical tokens (e.g. badge access)?	No	_			
231	PAUT-13	Does the device support group authentication (e.g. hospital teams)?	Yes				
232	PAUT-14	Does the application or device store or manage authentication credentials?	Yes	Note 33			
233	PAUT-14.1	Are credentials stored using a secure method?	Yes	Note 33			
234							
235		PHYSICAL LOCKS (PLOK)			IFC TR 80001-2-2.2012	NIST SP 800-53 Rev. A	150 27002.2013
237		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 removable media					
238	PLOK-1	Is the device software only? If yes, answer "N/A" to 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

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2							
	PLOK-2	Are all device components maintaining personally	Yes		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2,
		identifiable information (other than removable					A.11.1.3
		media) physically secure (i.e., cannot remove without					
239		tools)?					
	PLOK-3	Are all device components maintaining personally	No		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2,
		identifiable information (other than removable					A.11.1.3
		media) physically secured behind an individually					
240		keyed locking device?					
	PLOK-4	Does the device have an option for the customer to	No		Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2,
		attach a physical lock to restrict access to removable					A.11.1.3
241		media?					
242							
243							
		ROADMAP FOR THIRD PARTY COMPONENTS IN			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
244		DEVICE LIFE CYCLE (RDMP)					
0.45		Manufacturer's plans for security support of third-					
245		party components within the device's life cycle.	M			Ch4 2	News
	RDIVIP-1	was a secure software development process, such as	Yes		Section 5.14, RDIVIP	CIM-2	None
240		ISO/IEC 27034 or IEC 62304, followed during product					
240		development?	Voc		Saction 5 14 RDMR	CM 8	A 9 1 1 A 9 1 2
	RDIVIP-2	applications and software components included in	res	—	Section 5.14, RDMP	CIVI-8	A.8.1.1, A.8.1.2
2/17		the device for secure development practices?					
247	RDMP-3	Does the manufacturer maintain a web page or other	Vec		Section 5.14 RDMP	CM-8	Δ 8 1 1 Δ 8 1 2
		source of information on software support dates and		_	Section 5.14, RDIVI		A.0.1.1, A.0.1.2
248		updates?					
	RDMP-4	Does the manufacturer have a plan for managing	Yes		Section 5.14. RDMP	CM-8	A.8.1.1. A.8.1.2
249		third-party component end-of-life?			,		,
250							
251							
252		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 in the					
253		RDMP section.					
	SBOM-1	Is the SBoM for this product available?	Yes	See SBoM sheet within this			
254		-		document.			
	SBOM-2	Does the SBoM follow a standard or common	No				
255		method in describing software components?					
256	SBOM-2.1	Are the software components identified?	Yes				
257	SBOIM-2.2	Are the developers/manufacturers of the software	Yes				
257	SPOM 2.2	components identified?	Vac				
250	SDUIVI-2.3	Are the major version numbers of the software	105				
250	SBOM-2.4	Are any additional descriptive elements identified?	Vor				
259	SBOM-3	Does the device include a command or process	No				
	550141-5	method available to generate a list of software					
260		components installed on the device?					
261	SBOM-4	Is there an update process for the SBoM?	Yes	Note 34			
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2							
262							
		SYSTEM AND APPLICATION HARDENING (SAHD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
263							
264		The device's inherent resistance to cyber attacks and				CM-7	A.12.5.1*
204		maiware.	Voc		Section E 1E SAUD	AC 17(2)/IA 2	A 6 3 1 A 6 3 3 A 13 1 1
	SAND-1	industry standards?	res	DISA STIG	Section 5.15, SAND	AC-17(2)/IA-3	Δ 13 2 1 Δ 14 1 2/None
265							/.15.2.1, /.14.1.2/10/10
	SAHD-2	Has the device received any cybersecurity	No		Section 5.15, SAHD	SA-12(10)	A.14.2.7, A.15.1.1,
266		certifications?					A.15.1.2, A.15.1.3
	SAHD-3	Does the device employ any mechanisms for	Yes				
267		software integrity checking					
	SAHD-3.1	Does the device employ any mechanism (e.g., release-	Yes	Note 35			
		specific hash key, checksums, digital signature, etc.)					
268		authorized?					
	SAHD-3.2	Does the device employ any mechanism (e.g., release-	Yes	Note 36	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
		specific hash key, checksums, digital signature, etc.)					,
		to ensure the software updates are the manufacturer-					
269		authorized updates?					
	SAHD-4	Can the owner/operator perform software integrity	Yes	Note 35	Section 5.15, SAHD	AC-3	A.6.2.2, A.9.1.2, A.9.4.1,
		checks (i.e., verify that the system has not been					A.9.4.4, A.9.4.5, A.13.1.1,
270		modified or tampered with)?					A.14.1.2, A.14.1.3,
210	SAHD-5	Is the system configurable to allow the	Yes	Note 37	Section 5 15 SAHD	CM-7	A 12 5 1*
		implementation of file-level, patient level, or other					
271		types of access controls?					
	SAHD-5.1	Does the device provide role-based access controls?	Yes	Note 37	Section 5.15, SAHD	CM-7	A.12.5.1*
272							
272	SAHD-6	Are any system or user accounts restricted or	Yes	Note 38	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2
2/3		disabled by the manufacturer at system delivery?	Vor		Section 5 15 SAHD	CM.7	Λ 12 5 1*
274	SAILD-0.1	end user after initial configuration?			Section 5.15, SAID		A.12.J.1
	SAHD-6.2	Does this include restricting certain system or user	See Notes	Note 39	Section 5.15, SAHD	CM-7	A.12.5.1*
		accounts, such as service technicians, to least					
275		privileged access?					
	SAHD-7	Are all shared resources (e.g., file shares) which are	Yes		Section 5.15, SAHD	CM-7	A.12.5.1*
270		not required for the intended use of the device					
276		disabled?	Vor		Section 5 15 SAHD	SA_18	Nono
	SAIID-8	not required for the intended use of the device			Section 5.15, SAID	5A-10	None
277		disabled?					
	SAHD-9	Are all services (e.g., telnet, file transfer protocol	Yes		Section 5.15, SAHD	CM-6	None
		[FTP], internet information server [IIS], etc.), which					
		are not required for the intended use of the device					
278		deleted/disabled?					
	SAHD-10	Are all applications (COTS applications as well as OS-	Yes		Section 5.15, SAHD	51-2	A.12.6.1, A.14.2.2,
		which are not required for the intended use of the					A.14.2.3, A.10.1.3
279		device deleted/disabled?					

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2							
	SAHD-11	Can the device prohibit boot from uncontrolled or	Yes	Note 40			
		removable media (i.e., a source other than an					
280		internal drive or memory component)?					
	SAHD-12	Can unauthorized software or hardware be installed	See Notes	Note 41			
		on the device without the use of physical tools?					
281							
	SAHD-13	Does the product documentation include information	No				
		on operational network security scanning by users?	-				
282							
	SAHD-14	Can the device be hardened beyond the default	See Notes	Note 42			
283		provided state?					
	SAHD-14.1	Are instructions available from vendor for increased	Yes	Available upon request/discussion.			
284		hardening?					
	SHAD-15	Can the system prevent access to BIOS or other	Yes	Note 40			
285		bootloaders during boot?					
	SAHD-16	Have additional hardening methods not included in	No				
286		2 3 19 been used to harden the device?					
287							
288							
280		SECURITY GUIDANCE (SGUD)			IEC TR 80001-2-2.2012	NIST SP 800-53 Rev. 4	ISO 27002·2013
209		Availability of cocurity guidance for operator and				11151 51 666 55 1127.4	150 27002.2015
		administrator of the device and manufacturer sales					
290		and service					
250	SGUD-1	Does the device include security documentation for	Voc	Note 42	Section 5 16 SOUD	AT-2/DL-2	A 7 2 2
291	5000-1	the owner/operator?		NOTE 43	36000 3.10, 3000		Α.7.2.2, Δ 12 2 1/Δ 1/ 1 1
231	SGUD-2	Does the device have the canability, and provide	Ves	Note 44	Section 5 16 SGUD	MP-6	Δ 8 2 3 Δ 8 3 1 Δ 8 3 2
	5666 2	instructions for the permanent deletion of data from			3000		Δ 11 2 7
292		the device or media?					
	SGUD-3	Are all access accounts documented?	Yes	Available upon request.	Section 5.16, SGUD	AC-6.IA-2	A.9.1.2. A.9.2.3. A.9.4.4.
293							A.9.4.5/A.9.2.1
	SGUD-3.1	Can the owner/operator manage password control	Yes				
294		for all accounts?					
	SGUD-4	Does the product include documentation on	Yes	Note 17			
		recommended compensating controls for the device?					
295							
296							
297							
		HEALTH DATA STORAGE CONFIDENTIALITY			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
298		(STCF)					
		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.					
299							
300	STCF-1	Can the device encrypt data at rest?	Yes		Section 5.17, STCF	SC-28	A.8.2.3
301	STCF-1.1	Is all data encrypted or otherwise protected?	Yes	Note 45			
	STCF-1.2	Is the data encryption capability configured by	Yes				
302		default?					
	STCF-1.3	Are instructions available to the customer to	N/A				
303		configure encryption?					

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2							
2							
	STCF-2	Can the encryption keys be changed or configured?	Yes	Note 46	Section 5.17, STCF	SC-28	A.8.2.3
304							
	STCF-3	Is the data stored in a database located on the	Yes				
305	5	device?					
	STCF-4	Is the data stored in a database external to the	No				
306		device?					
307	,						
200							
300							
309		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					
		of transmitted personally identifiable information.					
310		-,					
510		Can personally identifiable information be	Voc		Section 5.18 TYCE	CM-7	A 12 5 1
	1701-1	transmitted enhance a point to point de distant	103				n.12.J.1
~ ~ ~		transmitted only via a point-to-point dedicated					
311		cable?					
	TXCF-2	Is personally identifiable information encrypted prior	See Notes	Note 47	Section 5.18, TXCF	CM-7	A.12.5.1
		to transmission via a network or removable media?					
312							
	TXCF-2.1	If data is not encrypted by default, can the customer	Yes	Note 47			
313		configure encryption ontions?					
515		la narsanally identifiable information transmission	Vac		Contine F 18 TYCE	CN4 7	A 12 F 1
214	TACI-5	is personally identifiable information transmission	res		Section 5.18, TACP	CIVI-7	A.12.3.1
314	-	restricted to a fixed list of network destinations?					
315	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	No				
		supported/implemented (DICOM, HL7, IEEE 11073)?					
316							
317	7						
318							
510		TRANSMISSION INTECRITY (TYIC)					100 07000 0010
319)	TRANSIVIISSION INTEGRITY (TAIG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	150 27002:2013
		The ability of the device to ensure the integrity of					
320)	transmitted data.					
	TXIG-1	Does the device support any mechanism (e.g., digital	No		Section 5.19, TXIG	SC-8	A.8.2.3, A.13.1.1,
		signatures) intended to ensure data is not modified					A.13.2.1. A.13.2.3.
321		during transmission?					Δ1412Δ1413
221	TXIG-2	Does the device include multiple sub-components	No				,
222	1/10-2	connected by external cables?					
222		connected by external cables?					
323							
324							
325	5	REMOTE SERVICE (RMOT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
		Remote service refers to all kinds of device					
		maintenance activities performed by a service person					
220		via notwork or other remote connection					
320			N			46.47	
	KI/I01-1	Does the device permit remote service connections	res	—		AC-17	А.Ե.2.1, А.Ե.2.2, А.13.1.1,
		for device analysis or repair?					A.13.2.1, A.14.1.2
327	·						
	RMOT-1.1	Does the device allow the owner/operator to	No				
		initiative remote service sessions for device analysis					
328	8	or repair?					
	RMOT-1 2	Is there an indicator for an enabled and active	No				
220		remete coscion?					
529	1	1011010 20220011	1	1	1	1	

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2				10 000 2020			
	DMOT 1 2	Connections data he approach as viewed from the	Vec			AC 17	
	KIVIU1-1.3	can patient data be accessed or viewed from the	res			AC-17	A.O.Z.1, A.O.Z.Z, A.13.1.1,
		device during the remote session?					A.13.2.1, A.14.1.2
330)						
	RMOT-2	Does the device permit or use remote service	Yes				
331		connections for predictive maintenance data?					
	RMOT-3	Does the device have any other remotely accessible	Yes	Note 48			
		functionality (e.g. software updates, remote					
332		training)?					
333	5						
334	1						
335	i						
336							
227		OTHER SECURITY CONSIDERATIONS (OTHR)			IEC TR 90001 2 2.2012	NIST SD 900 E2 Boy 4	150 27002.2012
337					IEC TR 80001-2-2.2012	NIST SF 800-55 Kev. 4	130 27002.2013
338		NONE					
339)						
340)	Notes:					
341							
	Note 1	Device contains a limited amount of ePHI to identify					
		images - typically a name, date of birth, patient ID,					
342		and accession number.					
	Note 2	Patient procedures may be deleted by privileged					
		users on demand and/or automatically by product					
		application reclaimer. Reclaimer times and thresholds					
343		configurable					
545	Note 3	Database encrypted with Microsoft Always Encrypted					
211	Note 5	tochnology					
245	Noto 4	Optional printing of patient images					
545	Note 4	Optional printing of patient images.					
240	Note 5	Optional importing and exporting of patient					
340		procedures.					
	NOTE 6	i ypically an RJ45 Ethernet connection or wifi					
347	l	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,					
348	a 0	after configurable amount of time.					
349	Note 8	Software installation and updates are logged.					
	Note 9	Log date/time stamp based on current Windows					
350		date/time for the system.					
351	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					
352		application.					
	Note 12	Audit and application log files encrypted Application					
		log files also have PHI one-way hashed					
352							
254	Noto 12	User legin with password via Windows					
554	NOLC 13		1	1	1	1	

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1	Manufacture	r Disclosure Statement for Medic					
	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
2							
	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					
355		product application.					
	Note 15	Strongly recommend configuring the product in its					
		own Organizational Unit and limiting policy changes					
356		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.					
357							
	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					
		Reeping antimalware software version at the same					
358		inajor version as what was valuated.					
	Note 18	Validated security patches for the product are posted					
		to the product support website at regular intervals.					
359							
	Note 19	Vulnerability assessments, leveraging industry					
		standard tools, and Windows security patch					
360		validation occur at regular intervals.					
	Note 20	Hologic strives to evaluate and test Windows security					
261		updates for the product as they're released (typically					
301	No.4- 24	monthly).					
	Note 21	Software databases and configurations are					
		automatically backed up at regular intervals. Patient					
		experted to external media by the customer					
362		exported to external media by the customer.					
502	Note 22	Product not designed for long term storage. Patient					
		studies should be stored to long term storage					
363							
	Note 23	See antimalware software installation guide on					
		product support website for required scan					
364		exemptions and configurations.					

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1	Manufacture	ifacturer Disclosure Statement for Medical Device Security MDS2						
	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020				
2								
-	Note 24	By default product operates as a Kiosk with Windows						
	1010 21	taskhar notifications disabled/suppressed as to not						
		interfere with product application use. Configurations						
		and the modified upon request. CoTC entimely are						
		can be modified upon request. Cors antimalware						
		products often provide a manager that allows for						
		email alerts and notifications to the appropriate						
		personnel.						
365								
	Note 25	Windows Defender and approved CoTS antimalware						
		software typically have a history feature and/or log.						
366								
	Note 26	Windows Firewall enabled and configured to allow						
		product application network traffic. Patient data only						
367	,	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						
368		the network layer.						
	Note 28	Use of unique product accounts is the decision of the						
		customer. Generic accounts (i.e. Rad Tech) can be						
369		removed.						
	Note 29	Enabled by default, locking the user for 5 minutes						
		after 10 failed logon attempts. Configurable by						
370		customer.						
	Note 30	Configured by default to require complex passwords.						
		by Microsoft standards, with a minimum length of 8						
		characters Configurable by customer						
371		contracters, comparable by customer.						
	Note 31	Passwords not configured to automatically expire by						
372		default. Configurable by customer						
5,2	Note 32	Eingerprint scanner currently not available for this						
373	1010 32	noduct						
515	Note 33	Product application leverages Windows Operating						
	Note 55	System for user authentication. Credentials not						
		system for user authentication. Credentials not						
274		stored in application databases. Credentials						
3/4	Nata 24	Storeu/managed securely via Operating System.						
275	NOLE 34	SBOINT reviewed and updated as required during						
3/5	No.40.25	product update cycles.						
	Note 35	Product application performs integrity check of all						
		static binary files during startup. Application libraries						
376		leverage .NEf code signing.						
	Note 36	Software update install packages include integrity						
		checks for all packaged files. Integrity check						
377	1	automatically performed during installations.						

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1	Manufacture	r Disclosure Statement for Medic	al Device Security M	DS2		
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2	nologie, me.			10 000 2020		
	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				
378	3	delete patient procedures.				
	Note 38	Default product application users can be removed.				
		Windows Administrator and Guest account renamed				
379)	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				
380)	access as needed for servicing the product.				
	Note 40	Can be configured, not restricted by default. If				
		configured, communicate change to service				
381		representative.				
	Note 41	Hardware installation would require tools, software				
382		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				
202	,	may negatively impact the product.				
383	Note 42	Socurity documentation available on product support				
384	1012 43	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				
385	5	support.				
	Note 45	Sensitive PII stored to disk and/or the product				
		databases are encrypted with AES 256. PII stored to				
l		application logs are both encrypted and one-way				
386	5	hashed.				
	Note 46	Changes to encryption keys should be done at time of				
		installation and can be modified upon request.				
387						
	Note 47	Exporting patient studies to removable media has an				
		option for de-identifying. Network transmission is				
200	,	typically over standard DICOM and can be encrypted				
300	Note 18	at the network level.				
	1010 40	web application. Ability to push approved software				
389)	changes over Hologic Connect				
				1	1	

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1	Software Bill of Materials (SBoM)			
2	Component Name	Developer	Version(s)	Product Use
3	Windows 10 IoT Enterprise x64	Microsoft	LTSC 2019	Operating System
4	SQL Server 2017 Express	Microsoft	14.0.3048.4	Product application database software.
	.NET Framework	Microsoft	3.5	Product application support libraries.
5			4.7.2	
6	Internet Information Services (IIS)	Microsoft	10.0.17763.1	Product configuration web application.
7	Internet Explorer 11	Microsoft	11.437.17763.0	Microsoft Edge not available for product OS (IoT).
	Visual C++ Redistributable	Microsoft	9.0.30729.17	Product application support libraries.
			10.0.40219	
			12.0.21005	
8			14.20.27508	
9	ELO Multi Touch	ELO	6.9.24.6	Touch Monitor
10	DigitalPersona One Touch	DigitalPersona	1.6.1.965	Fingerprint Scanner
11	U.are.U Fingerprint Reader Driver	DigitalPersona	4.0.0.143	Fingerprint Scanner
12	Honeywell HSM USB Serial Driver	Honeywell	3.4.15	Barcode Scanner
13	Honeywell OPOS Suite	Honeywell	1.13.4.21	Barcode Scanner
14	MetroPOS Administrator	Honeywell	2.2.1.4	Barcode Scanner
15	Sentinel LDK and Sentinel HASP Run-time Environment	SafeNet, Inc.	7.80	License Dongle
10	RadEye Driver (FTDI)	Radicon	2.08.30.0	Detector
10	E2V Intra Oral OSB Driver	EZV	3.0.1.0	Detector
10		Radicon	2.1.2.0	Detector library
20		Open Source	280	Helogic Connect
20	OpenSSH	Open Source	7.5n1	Hologic Connect
21	TightVNC	GlavSoft	2880	Hologic Connect
22				Configured for localhost connection only.
23	DCF	Laurel Bridge Software	3.3.12.369	Dicom Communication
24	IronPython	Open Source	2.7.5	Hologic Connect
25	Nant	Open Source	0.91.4312.0	Application setup/unsetup
26	PCAN Library	PEAK-System Technik GmbH	1.3.3.61	CAN API library
27	PCAN Driver	PEAK-System Technik GmbH	4.1.4.16279	CAN Driver
28	NirCmd	NirSoft	2.6.5.215	Screenshot during application crash.
29	PdfiumViewer	Open Source (Pieter van Ginkel)	2.13.0.0	PDF Viewer library
30	CodeSmith	Eric J. Smith	2.6.0.117	Development Tool
31	ExcelML Writer	Carlos Ag	1.0.0.6	Development Tool
32	Dev Express	Developer Express Inc.	7.2.11.0	Development Tool
33	Ajax Control Toolkit	Developer Express Inc.	4.5.7.1213	Development Tool
34	Nunit	Nunit Software	3.4.1.0	Development Tool
35	Nsubstitute	Open Source (Nsubsitute Team)	1.4.3.0	Development Tool
36	ZedGraph	Open Source (John Champion)	5.0.9.41461	Development I ool
37				
30	Additional Notac			
נו	Note 1	Some of the software components listed		
		above are covered by Hologic's program		
		to regularly validate latest released		
		security natches. See the product support		
		website for the latest validated natches		
		available or contact support for		
40		assistance.		