

	A	B	C	D	H	I	J	
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2							
2	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	NIST SP 800-53 Rev. 4	ISO 27002:2013	
5	DOC-1	Manufacturer Name	Hologic, Inc.	—				
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	—				
9	DOC-5	Manufacturer Contact Information	Chris Fischer Chris.Fischer@Hologic.com	—				
10	DOC-6	Intended use of device in network-connected environment:	Acquisition and Imaging of breast tissue specimen samples.	—				
11	DOC-7	Document Release Date	10/10/2020	—				
12	DOC-8	Coordinated Vulnerability Disclosure: Does the manufacturer have a vulnerability disclosure program for this device?	No	—				
13	DOC-9	ISAO: Is the manufacturer part of an Information Sharing and Analysis Organization?	No	—				
14	DOC-10	Diagram: Is a network or data flow diagram available that indicates connections to other system components or expected external resources?	Yes, available upon request.	—				
15	DOC-11	SaMD: Is the device Software as a Medical Device (i.e. software-only, no hardware)?	No	—				
16	DOC-11.1	Does the SaMD contain an operating system?	N/A	—				
17	DOC-11.2	Does the SaMD rely on an owner/operator provided operating system?	N/A	—				
18	DOC-11.3	Is the SaMD hosted by the manufacturer?	N/A	—				
19	DOC-11.4	Is the SaMD hosted by the customer?	N/A	—				
20								
21			Yes, No, N/A, or See Notes	Note #				
22		MANAGEMENT OF PERSONALLY IDENTIFIABLE INFORMATION			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
23	MPII-1	Can this device display, transmit, store, or modify personally identifiable information (e.g. electronic Protected Health Information (ePHI))?	Yes	Note 1		AR-2	A.15.1.4	
24	MPII-2	Does the device maintain personally identifiable information?	Yes	—		AR-2	A.15.1.4	
25	MPII-2.1	Does the device maintain personally identifiable information temporarily in volatile memory (i.e., until cleared by power-off or reset)?	Yes	—		AR-2	A.15.1.4	
26	MPII-2.2	Does the device store personally identifiable information persistently on internal media?	Yes	—				
27	MPII-2.3	Is personally identifiable information preserved in the device's non-volatile memory until explicitly erased?	Yes	Note 2				
28	MPII-2.4	Does the device store personally identifiable information in a database?	Yes	Note 3				

	A	B	C	D	H	I	J	
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2							
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020				
29	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	
30	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	
31	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	
32	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	—				
33	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 storage location)?	No	—		AR-2	A.15.1.4	
34	MPII-3	Does the device have mechanisms used for the transmitting, importing/exporting of personally identifiable information?	Yes	—		AR-2	A.15.1.4	
35	MPII-3.1	Does the device display personally identifiable information (e.g., video display, etc.)?	Yes	—		AR-2	A.15.1.4	
36	MPII-3.2	Does the device generate hardcopy reports or images containing personally identifiable information?	Yes	Note 4		AR-2	A.15.1.4	
37	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 5		AR-2	A.15.1.4	
38	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			AR-2	A.15.1.4	
39	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	
40	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	—		AR-2	A.15.1.4	
41	MPII-3.7	Does the device transmit/receive personally identifiable information over an external network (e.g., Internet)?	No			AR-2	A.15.1.4	
42	MPII-3.8	Does the device import personally identifiable information via scanning a document?	No	—				
43	MPII-3.9	Does the device transmit/receive personally identifiable information via a proprietary protocol?	No	—				

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
44	MPPII-3.10	Does the device use any other mechanism to transmit, import or export personally identifiable information?	No	—		AR-2	A.15.1.4
45	Management of Private 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
49		<i>The device's ability to prevent access and misuse by unauthorized users if device is left idle for a period of time.</i>					
50	ALOF-1	Can the device be configured to force reauthorization of logged-in user(s) after a predetermined length of inactivity (e.g., auto-logout, session lock, password protected screen saver)?	Yes	Note 7	Section 5.1, ALOF	AC-12	None
51	ALOF-2	Is the length of inactivity time before auto-logout/screen lock user or administrator configurable?	Yes	Note 7	Section 5.1, ALOF	AC-11	A.11.2.8, A.11.2.9
52							
53							
54		AUDIT CONTROLS (AUDT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
55		<i>The ability to reliably audit activity on the device.</i>					
56	AUDT-1	Can the medical device create additional audit logs or reports beyond standard operating system logs?	Yes	—	Section 5.2, AUDT	AU-1	A.5.1.1, A.5.1.2, A.6.1.1, A.12.1.1, A.18.1.1, A.18.2.2
57	AUDT-1.1	Does the audit log record a USER ID?	Yes	—			
58	AUDT-1.2	Does other personally identifiable information exist in the audit trail?	Yes	—	Section 5.2, AUDT	AU-2	None
59	AUDT-2	Are events recorded in an audit log? If yes, indicate which of the following events are recorded in the audit log:	Yes	—	Section 5.2, AUDT	AU-2	None
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
64	AUDT-2.5	Presentation of clinical or PII data (e.g. display, print)?	Yes	—	Section 5.2, AUDT	AU-2	None
65	AUDT-2.6	Creation/modification/deletion of data?	Yes	—	Section 5.2, AUDT	AU-2	None
66	AUDT-2.7	Import/export of data from removable media (e.g. USB drive, external hard drive, DVD)?	Yes	—	Section 5.2, AUDT	AU-2	None
67	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
68	AUDT-2.8.1	Remote or on-site support?	Yes	—	Section 5.2, AUDT	AU-2	None
69	AUDT-2.8.2	Application Programming Interface (API) and similar activity?	N/A	—	Section 5.2, AUDT	AU-2	None
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
73	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

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
74	AUDT-4	Is a list of data attributes that are captured in the audit log for an event available?	Yes	Available upon request.	Section 5.2, AUDT	AU-2	None
75	AUDT-4.1	Does the audit log record date/time?	Yes	Note 9	Section 5.2, AUDT	AU-2	None
76	AUDT-4.1.1	Can date and time be synchronized by Network Time Protocol (NTP) or equivalent time source?	Yes	Note 10	Section 5.2, AUDT	AU-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	—			
79	AUDT-5.2	Via IHE Audit Trail and Node Authentication (ATNA) profile to SIEM?	No	—			
80	AUDT-5.3	Via Other communications (e.g., external service device, mobile applications)?	Yes	Note 11			
81	AUDT-5.4	Are audit logs encrypted in transit or on storage media?	Yes	Note 12			
82	AUDT-6	Can audit logs be monitored/reviewed by owner/operator?	Yes	—			
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	—			
85	AUDT-8	Can audit logs be analyzed by the device?	No	—	Section 5.2, AUDT	AU-2	None
86							
87							
88		AUTHORIZATION (AUTH)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
89		<i>The ability of the device to determine the authorization of users.</i>					
90	AUTH-1	Does the device prevent access to unauthorized users through user login requirements or other mechanism?	Yes	Note 13	Section 5.3, AUTH	IA-2	A.9.2.1
91	AUTH-1.1	Can the device be configured to use federated credentials management of users for authorization (e.g., LDAP, OAuth)?	Yes	Active Directory	Section 5.3, AUTH	IA-2	A.9.2.1
92	AUTH-1.2	Can the customer push group policies to the device (e.g., Active Directory)?	See Notes	Note 14	Section 5.3, AUTH	IA-2	A.9.2.1
93	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
94	AUTH-2	Can users be assigned different privilege levels based on 'role' (e.g., user, administrator, and/or service, etc.)?	Yes	—	Section 5.3, AUTH	IA-2	A.9.2.1
95	AUTH-3	Can the device owner/operator grant themselves unrestricted administrative privileges (e.g., access operating system or application via local root or administrator account)?	Yes	—	Section 5.3, AUTH	IA-2	A.9.2.1
96	AUTH-4	Does the device authorize or control all API access requests?	N/A	—	Section 5.3, AUTH	IA-2	A.9.2.1
97	AUTH-5	Does the device run in a restricted access mode, or 'kiosk mode', by default?	Yes	—			
98							
99							
100		CYBER SECURITY PRODUCT UPGRADES (CSUP)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
101		<i>The ability of on-site service staff, remote service staff, or authorized customer staff to install/upgrade device's security patches.</i>					

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
102	CSUP-1	Does the device contain any software or firmware which may require security updates during its operational life, either from the device manufacturer or from a third-party manufacturer of the software/firmware? If no, answer "N/A" to questions in this section.	Yes	—			
103	CSUP-2	Does the device contain an Operating System? If yes, complete 2.1-2.4.	Yes	—			
104	CSUP-2.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	Yes	Note 16			
105	CSUP-2.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	No	—			
106	CSUP-2.3	Does the device have the capability to receive remote installation of patches or software updates?	Yes				
107	CSUP-2.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	See Notes	Note 16			
108	CSUP-3	Does the device contain Drivers and Firmware? If yes, complete 3.1-3.4.	Yes	—			
109	CSUP-3.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	—			
110	CSUP-3.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	—			
111	CSUP-3.3	Does the device have the capability to receive remote installation of patches or software updates?	Yes	—			
112	CSUP-3.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	No	—			
113	CSUP-4	Does the device contain Anti-Malware Software? If yes, complete 4.1-4.4.	Yes	Note 17			
114	CSUP-4.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	Yes	Note 17			
115	CSUP-4.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	See Notes	Note 17			
116	CSUP-4.3	Does the device have the capability to receive remote installation of patches or software updates?	Yes	Note 17			
117	CSUP-4.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	See Notes	Note 17			

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
118	CSUP-5	Does the device contain Non-Operating System commercial off-the-shelf components? If yes, complete 5.1-5.4.	Yes	—			
119	CSUP-5.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	No	—			
120	CSUP-5.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	Yes	—			
121	CSUP-5.3	Does the device have the capability to receive remote installation of patches or software updates?	Yes	—			
122	CSUP-5.4	Does the medical device manufacturer allow security updates from any third-party manufacturers (e.g., Microsoft) to be installed without approval from the manufacturer?	No	—			
123	CSUP-6	Does the device contain other software components (e.g., asset management software, license management)? If yes, please provide details or reference in notes and complete 6.1-6.4.	No	—			
124	CSUP-6.1	Does the device documentation provide instructions for owner/operator installation of patches or software updates?	N/A	—			
125	CSUP-6.2	Does the device require vendor or vendor-authorized service to install patches or software updates?	N/A	—			
126	CSUP-6.3	Does the device have the capability to receive remote installation of patches or software updates?	N/A	—			
127	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?	N/A	—			
128	CSUP-7	Does the manufacturer notify the customer when updates are approved for installation?	Yes	Note 18			
129	CSUP-8	Does the device perform automatic installation of software updates?	No	—			
130	CSUP-9	Does the manufacturer have an approved list of third-party software that can be installed on the device?	Yes	Note 17			
131	CSUP-10	Can the owner/operator install manufacturer-approved third-party software on the device themselves?	Yes	Note 17			
132	CSUP-10.1	Does the system have mechanism in place to prevent installation of unapproved software?	No	—			
133	CSUP-11	Does the manufacturer have a process in place to assess device vulnerabilities and updates?	Yes	Note 19			
134	CSUP-11.1	Does the manufacturer provide customers with review and approval status of updates?	Yes	Note 18			
135	CSUP-11.2	Is there an update review cycle for the device?	Yes	Note 20			

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-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
140		<i>The ability of the device to directly remove information that allows identification of a person.</i>					
141	DIDT-1	Does the device provide an integral capability to de-identify personally identifiable information?	Yes	—	Section 5.6, DIDT	None	ISO 27038
142	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
143							
144							
145		DATA BACKUP AND DISASTER RECOVERY (DTBK)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
146		<i>The ability to recover after damage or destruction of device data, hardware, software, or site configuration information.</i>					
147	DTBK-1	Does the device maintain long term primary storage of personally identifiable information / patient information (e.g. PACS)?	No	—			
148	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
149	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
150	DTBK-4	Does the device have an integral data backup capability to remote storage?	Yes	Note 21			
151	DTBK-5	Does the device have a backup capability for system configuration information, patch restoration, and software restoration?	Yes	Note 21			
152	DTBK-6	Does the device provide the capability to check the integrity and authenticity of a backup?	No	—	Section 5.7, DTBK	CP-9	A.12.3.1
153							
154							
155		EMERGENCY ACCESS (EMRG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
156		<i>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.</i>					
157	EMRG-1	Does the device incorporate an emergency access (i.e. "break-glass") feature?	No	—	Section 5.8, EMRG	SI-17	None
158							
159							
160		HEALTH DATA INTEGRITY AND AUTHENTICITY (IGAU)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
161		<i>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.</i>					

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
162	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
163	IGAU-2	Does the device provide error/failure protection and recovery mechanisms for stored health data (e.g., RAID-5)?	No	Note 22	Section 5.9, IGAU	SC-28	A.18.1.3
164							
165							
166		MALWARE DETECTION/PROTECTION (MLDP)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
167		<i>The ability of the device to effectively prevent, detect and remove malicious software (malware).</i>					
168	MLDP-1	Is the device capable of hosting executable software?	Yes	—	Section 5.10, MLDP		
169	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
170	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
171	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
172	MLDP-2.3	Does the device documentation allow the owner/operator to install or update anti-malware software?	Yes	Note 17	Section 5.10, MLDP	CP-10	A.17.1.2
173	MLDP-2.4	Can the device owner/operator independently (re-)configure anti-malware settings?	Yes	Note 23	Section 5.10, MLDP	AU-2	None
174	MLDP-2.5	Does notification of malware detection occur in the device user interface?	See Notes	Note 24			
175	MLDP-2.6	Can only manufacturer-authorized persons repair systems when malware has been detected?	Yes				
176	MLDP-2.7	Are malware notifications written to a log?	Yes	Note 25			
177	MLDP-2.8	Are there any restrictions on anti-malware (e.g., purchase, installation, configuration, scheduling)?	Yes	Note 23			
178	MLDP-3	If the answer to MLDP-2 is NO, and anti-malware cannot be installed on the device, are other compensating controls in place or available?	N/A	—	Section 5.10, MLDP	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3
179	MLDP-4	Does the device employ application whitelisting that restricts the software and services that are permitted to be run on the device?	No	—	Section 5.10, MLDP	SI-3	A.12.2.1
180	MLDP-5	Does the device employ a host-based intrusion detection/prevention system?	No	—	Section 5.10, MLDP	SI-4	None
181	MLDP-5.1	Can the host-based intrusion detection/prevention system be configured by the customer?	N/A	—	Section 5.10, MLDP	CM-7	A.12.5.1
182	MLDP-5.2	Can a host-based intrusion detection/prevention system be installed by the customer?	No	—	Section 5.10, MLDP		
183							
184							
185		NODE AUTHENTICATION (NAUT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
186		<i>The ability of the device to authenticate communication partners/nodes.</i>					

	A	B	C	D	H	I	J	
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2							
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020				
187	NAUT-1	Does the device provide/support any means of node 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)?	Yes		Section 5.11, NAUT	SC-23	None	
188	NAUT-2	Are network access control mechanisms supported (E.g., does the device have an internal firewall, or use a network connection white list)?	Yes	Note 26	Section 5.11, NAUT	SC-7	A.13.1.1, A.13.1.3, A.13.2.1, A.14.1.3	
189	NAUT-2.1	Is the firewall ruleset documented and available for review?	Yes	Available upon request.				
190	NAUT-3	Does the device use certificate-based network connection authentication?	No					
191								
192								
193		CONNECTIVITY CAPABILITIES (CONN)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
194		<i>All network and removable media connections must be considered in determining appropriate security controls. This section lists connectivity capabilities that may be present on the device.</i>						
195	CONN-1	Does the device have hardware connectivity capabilities?	Yes	—				
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	—				
199	CONN-1.1.3	Does the device support other wireless network connectivity (e.g. LTE, Zigbee, proprietary)?	No	—				
200	CONN-1.1.4	Does the device support other wireless connections (e.g., custom RF controls, wireless detectors)?	No	—				
201	CONN-1.2	Does the device support physical connections?	Yes	—				
202	CONN-1.2.1	Does the device have available RJ45 Ethernet ports?	Yes	—				
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 memory devices?	Yes	Note 5				
205	CONN-1.2.4	Does the device support other physical connectivity?	Yes					
206	CONN-2	Does the manufacturer provide a list of network ports and protocols that are used or may be used on the device?	Yes	Available upon request.				
207	CONN-3	Can the device communicate with other systems within the customer environment?	Yes	—				
208	CONN-4	Can the device communicate with other systems external to the customer environment (e.g., a service host)?	Yes	—				
209	CONN-5	Does the device make or receive API calls?	No	—				
210	CONN-6	Does the device require an internet connection for its intended use?	No	—				
211	CONN-7	Does the device support Transport Layer Security (TLS)?	Yes	Note 27				
212	CONN-7.1	Is TLS configurable?	Yes	Note 27				

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
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		<i>The ability to configure the device to authenticate users.</i>					
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							
236		PHYSICAL LOCKS (PLOK)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
237		<i>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</i>					
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

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
239	PLOK-2	Are all device components maintaining personally identifiable information (other than removable media) physically secure (i.e., cannot remove without tools)?	Yes	—	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
240	PLOK-3	Are all device components maintaining personally identifiable information (other than removable media) physically secured behind an individually keyed locking device?	No	—	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
241	PLOK-4	Does the device have an option for the customer to attach a physical lock to restrict access to removable media?	No	—	Section 5.13, PLOK	PE- 3(4)	A.11.1.1, A.11.1.2, A.11.1.3
242							
243							
244		ROADMAP FOR THIRD PARTY COMPONENTS IN DEVICE LIFE CYCLE (RDMP)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
245		<i>Manufacturer's plans for security support of third-party components within the device's life cycle.</i>					
246	RDMP-1	Was a secure software development process, such as ISO/IEC 27034 or IEC 62304, followed during product development?	Yes		Section 5.14, RDMP	CM-2	None
247	RDMP-2	Does the manufacturer evaluate third-party applications and software components included in the device for secure development practices?	Yes	—	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
248	RDMP-3	Does the manufacturer maintain a web page or other source of information on software support dates and updates?	Yes	—	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
249	RDMP-4	Does the manufacturer have a plan for managing third-party component end-of-life?	Yes	—	Section 5.14, RDMP	CM-8	A.8.1.1, A.8.1.2
250							
251							
252		SOFTWARE BILL OF MATERIALS (SBoM)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
253		<i>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 RDMP section.</i>					
254	SBOM-1	Is the SBoM for this product available?	Yes	See SBoM sheet within this document.			
255	SBOM-2	Does the SBoM follow a standard or common method in describing software components?	No				
256	SBOM-2.1	Are the software components identified?	Yes	—			
257	SBOM-2.2	Are the developers/manufacturers of the software components identified?	Yes	—			
258	SBOM-2.3	Are the major version numbers of the software components identified?	Yes	—			
259	SBOM-2.4	Are any additional descriptive elements identified?	Yes	—			
260	SBOM-3	Does the device include a command or process method available to generate a list of software components installed on the device?	No	—			
261	SBOM-4	Is there an update process for the SBoM?	Yes	Note 34			

	A	B	C	D	H	I	J	
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2							
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020				
262		SYSTEM AND APPLICATION HARDENING (SAHD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
263								
264		<i>The device's inherent resistance to cyber attacks and malware.</i>				CM-7	A.12.5.1*	
265	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	
266	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	
267	SAHD-3	Does the device employ any mechanisms for software integrity checking	Yes	—				
268	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 manufacturer-authorized?	Yes	Note 35				
269	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 the manufacturer-authorized updates?	Yes	Note 36	Section 5.15, SAHD	CM-8	A.8.1.1, A.8.1.2	
270	SAHD-4	Can the owner/operator perform software integrity checks (i.e., verify that the system has not been modified or tampered with)?	Yes	Note 35	Section 5.15, SAHD	AC-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, A.14.1.2, A.14.1.3, A.18.1.3	
271	SAHD-5	Is the system configurable to allow the implementation of file-level, patient level, or other types of access controls?	Yes	Note 37	Section 5.15, SAHD	CM-7	A.12.5.1*	
272	SAHD-5.1	Does the device provide role-based access controls?	Yes	Note 37	Section 5.15, SAHD	CM-7	A.12.5.1*	
273	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	
274	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*	
275	SAHD-6.2	Does this include restricting certain system or user accounts, such as service technicians, to least privileged access?	See Notes	Note 39	Section 5.15, SAHD	CM-7	A.12.5.1*	
276	SAHD-7	Are all shared resources (e.g., file shares) which are not required for the intended use of the device disabled?	Yes	—	Section 5.15, SAHD	CM-7	A.12.5.1*	
277	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	
278	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	
279	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 the device deleted/disabled?	Yes	—	Section 5.15, SAHD	SI-2	A.12.6.1, A.14.2.2, A.14.2.3, A.16.1.3	

	A	B	C	D	H	I	J	
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2							
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020				
280	SAHD-11	Can the device prohibit boot from uncontrolled or removable media (i.e., a source other than an internal drive or memory component)?	Yes	Note 40				
281	SAHD-12	Can unauthorized software or hardware be installed on the device without the use of physical tools?	See Notes	Note 41				
282	SAHD-13	Does the product documentation include information on operational network security scanning by users?	No	—				
283	SAHD-14	Can the device be hardened beyond the default provided state?	See Notes	Note 42				
284	SAHD-14.1	Are instructions available from vendor for increased hardening?	Yes	Available upon request/discussion.				
285	SHAD-15	Can the system prevent access to BIOS or other bootloaders during boot?	Yes	Note 40				
286	SAHD-16	Have additional hardening methods not included in 2.3.19 been used to harden the device?	No	—				
287								
288								
289		SECURITY GUIDANCE (SGUD)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
290		<i>Availability of security guidance for operator and administrator of the device and manufacturer sales and service.</i>						
291	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	
292	SGUD-2	Does the device have the capability, and provide instructions, for the permanent deletion of data from the device or media?	Yes	Note 44	Section 5.16, SGUD	MP-6	A.8.2.3, A.8.3.1, A.8.3.2, A.11.2.7	
293	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, A.9.4.5/A.9.2.1	
294	SGUD-3.1	Can the owner/operator manage password control for all accounts?	Yes	—				
295	SGUD-4	Does the product include documentation on recommended compensating controls for the device?	Yes	Note 17				
296								
297								
298		HEALTH DATA STORAGE CONFIDENTIALITY (STCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
299		<i>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.</i>						
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				
302	STCF-1.2	Is the data encryption capability configured by default?	Yes					
303	STCF-1.3	Are instructions available to the customer to configure encryption?	N/A					

	A	B	C	D	H	I	J	
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2							
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020				
304	STCF-2	Can the encryption keys be changed or configured?	Yes	Note 46	Section 5.17, STCF	SC-28	A.8.2.3	
305	STCF-3	Is the data stored in a database located on the device?	Yes	—				
306	STCF-4	Is the data stored in a database external to the device?	No	—				
307								
308								
309		TRANSMISSION CONFIDENTIALITY (TXCF)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
310		<i>The ability of the device to ensure the confidentiality of transmitted personally identifiable information.</i>						
311	TXCF-1	Can personally identifiable information be transmitted only via a point-to-point dedicated cable?	Yes		Section 5.18, TXCF	CM-7	A.12.5.1	
312	TXCF-2	Is personally identifiable information encrypted prior to transmission via a network or removable media?	See Notes	Note 47	Section 5.18, TXCF	CM-7	A.12.5.1	
313	TXCF-2.1	If data is not encrypted by default, can the customer configure encryption options?	Yes	Note 47				
314	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	
315	TXCF-4	Are connections limited to authenticated systems?	No	—	Section 5.18, TXCF	CM-7	A.12.5.1	
316	TXCF-5	Are secure transmission methods supported/implemented (DICOM, HL7, IEEE 11073)?	No	—				
317								
318								
319		TRANSMISSION INTEGRITY (TXIG)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
320		<i>The ability of the device to ensure the integrity of transmitted data.</i>						
321	TXIG-1	Does the device support any mechanism (e.g., digital signatures) intended to ensure data is not modified during transmission?	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	
322	TXIG-2	Does the device include multiple sub-components connected by external cables?	No	—				
323								
324								
325		REMOTE SERVICE (RMOT)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013	
326		<i>Remote service refers to all kinds of device maintenance activities performed by a service person via network or other remote connection.</i>						
327	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	
328	RMOT-1.1	Does the device allow the owner/operator to initiate remote service sessions for device analysis or repair?	No	—				
329	RMOT-1.2	Is there an indicator for an enabled and active remote session?	No					

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
330	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
331	RMOT-2	Does the device permit or use remote service connections for predictive maintenance data?	Yes	—			
332	RMOT-3	Does the device have any other remotely accessible functionality (e.g. software updates, remote training)?	Yes	Note 48			
333							
334							
335							
336							
337		OTHER SECURITY CONSIDERATIONS (OTHR)			IEC TR 80001-2-2:2012	NIST SP 800-53 Rev. 4	ISO 27002:2013
338		<i>NONE</i>					
339							
340		Notes:					
341							
342	Note 1	Device contains a limited amount of ePHI to identify images - typically a name, date of birth, patient ID, and accession number.					
343	Note 2	Patient procedures may be deleted by privileged users on demand and/or automatically by product application reclaimer. Reclaimer times and thresholds configurable.					
344	Note 3	Database encrypted with Microsoft Always Encrypted technology.					
345	Note 4	Optional printing of patient images.					
346	Note 5	Optional importing and exporting of patient procedures.					
347	Note 6	Typically an RJ45 Ethernet connection or wifi connection.					
348	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.					
349	Note 8	Software installation and updates are logged.					
350	Note 9	Log date/time stamp based on current Windows date/time for the system.					
351	Note 10	Windows can be configured with an NTP server.					
352	Note 11	Can be exported and downloaded by remote or local service users via the product Service Tools web application.					
353	Note 12	Audit and application log files encrypted. Application log files also have PHI one-way hashed.					
354	Note 13	User login with password via Windows.					

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
355	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.					
356	Note 15	Strongly recommend configuring the product in its own Organizational Unit and limiting policy changes pushed to the system.					
357	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.					
358	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.					
359	Note 18	Validated security patches for the product are posted to the product support website at regular intervals.					
360	Note 19	Vulnerability assessments, leveraging industry standard tools, and Windows security patch validation occur at regular intervals.					
361	Note 20	Hologic strives to evaluate and test Windows security updates for the product as they're released (typically monthly).					
362	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.					
363	Note 22	Product not designed for long term storage. Patient studies should be stored to long term storage.					
364	Note 23	See antimalware software installation guide on product support website for required scan exemptions and configurations.					

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
365	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.					
366	Note 25	Windows Defender and approved CoTS antimalware software typically have a history feature and/or log.					
367	Note 26	Windows Firewall enabled and configured to allow product application network traffic. Patient data only sent to configured DICOM devices.					
368	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.					
369	Note 28	Use of unique product accounts is the decision of the customer. Generic accounts (i.e. Rad Tech) can be removed.					
370	Note 29	Enabled by default, locking the user for 5 minutes after 10 failed logon attempts. Configurable by customer.					
371	Note 30	Configured by default to require complex passwords, by Microsoft standards, with a minimum length of 8 characters. Configurable by customer.					
372	Note 31	Passwords not configured to automatically expire by default. Configurable by customer.					
373	Note 32	Fingerprint scanner currently not available for this product.					
374	Note 33	Product application leverages Windows Operating System for user authentication. Credentials not stored in application databases. Credentials stored/managed securely via Operating System.					
375	Note 34	SBOM reviewed and updated as required during product update cycles.					
376	Note 35	Product application performs integrity check of all static binary files during startup. Application libraries leverage .NET code signing.					
377	Note 36	Software update install packages include integrity checks for all packaged files. Integrity check automatically performed during installations.					

	A	B	C	D	H	I	J
1	Manufacturer Disclosure Statement for Medical Device Security -- MDS2						
2	Hologic, Inc.	Brevera 1.1	MAN-06703 Revision 001	10-Oct-2020			
378	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.					
379	Note 38	Default product application users can be removed. Windows Administrator and Guest account renamed and disabled.					
380	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.					
381	Note 40	Can be configured, not restricted by default. If configured, communicate change to service representative.					
382	Note 41	Hardware installation would require tools, software would require OS authentication.					
383	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.					
384	Note 43	Security documentation available on product support website.					
385	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.					
386	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.					
387	Note 46	Changes to encryption keys should be done at time of installation and can be modified upon request.					
388	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.					
389	Note 48	Remote configuration of product via Service Tools web application. Ability to push approved software changes over Hologic Connect.					

	A	B	C	D
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.
5	.NET Framework	Microsoft	3.5 4.7.2	Product application support libraries.
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).
8	Visual C++ Redistributable	Microsoft	9.0.30729.17 10.0.40219 12.0.21005 14.20.27508	Product application support libraries.
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
16	RadEye Driver (FTDI)	Radicon	2.08.30.0	Detector
17	E2V Intra Oral USB Driver	E2V	3.6.1.0	Detector
18	ShadowCam Imaging Library	Radicon	2.1.2.0	Detector library
19	IO XRAY USB	E2V	3.7.0.0	Detector library
20	Cygwin	Open Source	2.8.0	Hologic Connect
21	OpenSSH	Open Source	7.5p1	Hologic Connect
22	TightVNC	GlavSoft	2.8.8.0	Hologic Connect
23	DCF	Laurel Bridge Software	3.3.12.369	Configured for localhost connection only. 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 (Nsubstitute Team)	1.4.3.0	Development Tool
36	ZedGraph	Open Source (John Champion)	5.0.9.41461	Development Tool
37				
38				
39	Additional Notes			
40	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.		