

Cortrium Apex 1.20

Instructions for Use

1. In	ntended use and warnings	2
2. In	nstallation	3
3. Lo	og in to Cortrium Apex	4
4. Pi	repare the C3 $^{\scriptscriptstyle +}$ for a new patient	6
5. O	rder a Holter report	10
6. V	iew Holter reports and the entire recording	14
6.	1 View Holter reports	14
6.	2 Recording viewer	16
6.	3 Summary editor	17
7. Ec	dit patient details and view details of recordings	17
8 . D	elete a recording	20
9. D	ownload EDF file	22
9.	1 How to download EDF file before ordering the Holter report	22
9.	2 How to download EDF file after ordering a report	24
10. I	Log out of Cortrium Apex	25
11.	Software-Updates	25
12.	Minimum technical requirements	25
13.	Troubleshooting	26
13	3.1 "The device seems to be set up for a patient"	26



13	3.2 Recording summary shows "n/a lead off" or "n/a events"	26
13	3.3 The internet connection was interrupted	26
13	3.4 Apex is newly installed but does not open	27
14.	Security information	27
15.	Labelling and symbols	28
16.	Infrastructure statement	28
App	endix I	30
i. Av	vailable Integrations	30
ii. G	DT Patient File	31
iii. I	DICOM Encapsulated Report	32
iv. C	CPR Patient Lookup	33

1. Intended use and warnings

Intended use

Cortrium Apex is a software application used to prepare the Cortrium C3⁺ Holter monitor prior to use for a new patient, manage patient data, order, and view ECG Holter reports, download the recording in .EDF format, and to view the entire ECG recording. In addition, recording data can be downloaded and imported into third-party software for analysis. The software is compatible with both Microsoft Windows and MacOS (see section 12 for minimum requirements).

Intended users

The software is intended to be used by healthcare professionals in private practice, clinics and hospitals as well as remotely.

Warnings

• This product may only be used in accordance with its intended use as mentioned in these instructions



- Users of this product are unique, and should never share passwords
- Screenshots of the software may contain sensitive information and should be avoided
- Data shared outside of the system are at the user's own risk

Additional information

Please note that software versioning displayed in the screenshots in this manual may refer to previous versions of the software.

Eg. If no changes have been made to the user interface the version shown in the screenshots can be older than the current version of the software, however the functionality is identical.

For users who have enabled integrations, screenshots and usage may differ. For instructions on using these integrations, please refer to Appendix I at the end of this document.

2. Installation

- a. You have been invited to Cortrium Apex by email. Open the invitation email on a computer where you want to install Cortrium Apex
- b. Click on the link in the invitation email to set a password
- c. Confirm your password
- d. Select "Go to next step" to proceed to the download
- e. Download the installation file for Windows or MacOS
- f. When the download is complete, run the installation file
- g. Once the installation is complete, Cortrium Apex will open automatically
- h. You can now log in using your email address and the respective password and start using Cortrium Apex

Please note that Cortrium Apex requires an internet connection. You will not be able to log in or use Cortrium Apex without an internet connection

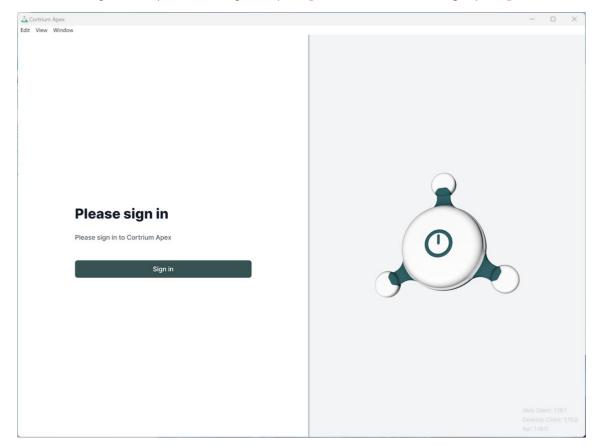


3. Log in to Cortrium Apex

To use Cortrium Apex, you must first have a user login. If you are the administrator of the facility, this has been set up for you by Cortrium. If you are not the administrator and do not yet have a user login, this can be set up by the administrator of your facility.

Once you have installed Cortrium Apex and received your login, you can proceed with the following steps:

- Open Cortrium Apex on your computer by double-clicking on the Cortrium Apex icon.
- Click on "Sign in" (If you have forgotten your password, click on "Forgot your password")



• Enter your user information and press "Continue".



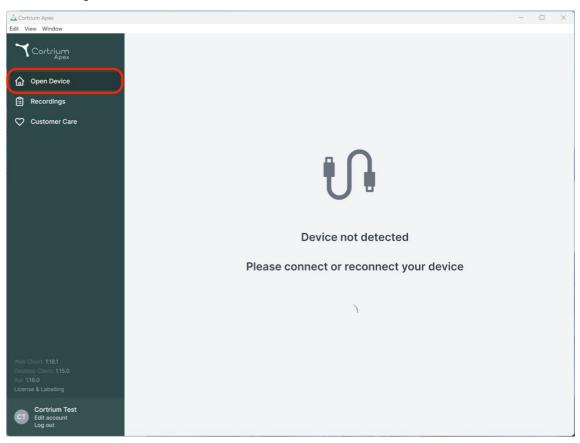
Cortrium Apex		- 0	×
<u>a</u> Contrium Apex lit View Window	C ortrium Apex Welcome	- 0	>
	Log in to Cortrium Apex to continue to Cortrium Apex Web Client.		
	Continue		



4. Prepare the $C3^+$ for a new patient

If the C3⁺ has already been used to record a long-term ECG, please read the section "Order a Holter report" before following the steps in this section.

• Select the "Open Device" button.



• Connect the C3⁺ to the computer using the USB cable provided.

(If you are using an Apple product, you may need a USB converter)



🚵 Cortrium Apex Edit View Window			- 0 ×
Cortrium	Patient information		
Open Device Recordings	Warning There does not appear to t our software. Please setup	be any patient data associated with the recordings or the device v a patient.	vas setup from an earlier version of
🛇 Customer Care			Add patient information
	Recordings on this	device	
	DURATION	SUMMARY	
	No recordings found on device		
	Erase all and prepare for ne	w patient	
			Cortrium C3+
			Space
			4 / 5 GB
			Charge
			100 %
			Firmware: 20011-01665 Device ID: C3010072
CT Cortrium Test Edit account Log out			U Safely unplug device

- Cortrium Apex displays information about the connected device and any data stored on it.
- Select "Erase all and prepare device for new patient".
- Fill in the relevant patient and recording information:



dit View Window				- 🗆 X
Cortrium	Patient informati	on		
Open Device	Warning There does not appear	r to be any patient data associated with	the recordings or the device w	ras setur from an earlier version of
Recordings	Patient	Patient ID	Date of birth	as setup norman carrier version of
💙 Customer Care	Patient	28081960	08/28/1960	Add patient information
		First name	Last name	
		Cortrium	Test	
		Gender	Reason for recording Other	\sim
	Notes	Notes on patient or recording		
	Device setup	Recording length Pacemake I day None Please note that analysis cannot be guarant	✓ 256 Hz	ortrium C3+ bace 4/5 gB harge
Web Client: 1.18.1 Desktop Client: 1.15.0 Api: 1.18.0 License & Labelling	① This will era	se all recordings on the device	Cancel 🕞 Save to dev	100 % mware: 20011-01665 tvice ID: C3010072
				U Safely unplug device



- Now click on "Save to Device". This deletes all patient data or recordings stored on the device and saves the new patient information in the system.
- You can now eject your device via the "Safely unplug device" button on the right-hand side.
- The C3⁺ is now ready for a recording on a new patient.
- In case you typed in wrong patient information, the information can be edited by clicking on "Edit patient information".



5. Order a Holter report

Cortrium Apex allows you to send recordings for analysis and download the Holter report as soon as it is available. When a device is returned with a recording, click on the "Open device" button and select your next steps using the "Actions" button. By default, you have the following two options:

- Order Holter report
- Upload and export as EDF

🛓 Cortrium Apex			- 🗆 X
Edit View Window			
Cortrium	Patient information		
Open Device	Cortrium Test		Edit patient information
🖆 Recordings	🗎 Male (63) # 28081960 Q Oth	er 🕼 256 Hz 🕓 1 day 🛷 No pacemaker	
🛇 Customer Care			
	Recordings on this device		
	DURATION	SUMMARY	
	1 day 2023-03-13 → 2023-03-14 ③ Erase all and prepare for new patient	0% lead off 11 events Order Holter report Cupload and export as EDF	
			Cortrium C3+
			Space
			4 / 5 GB
			Charge
			100 %
Web Client: 1.18.1 Desktop Client: 1.15.0 Api: 1.18.0			Firmware: 20011-01665 Device ID: C3010072
License & Labelling			() Safely unplug device
CT Cortrium Test Edit account Log out			

To order the Holter report, click on the "Actions" button and then on "Order Holter report".

You will be met by a form allowing you to confirm your order or choose additional options for your analysis.



🛓 Cortrium Apex Edit View Window		- 🗆 X
Cortrium Apex Open Device Recordings Customer Care	Cortrium Test Male (63) # 28081960 Q Other № 256 Hz ③ 1 day ☆ No pacemaker	
	Purf Confirm order Please select and confirm your ordering details Image: Please select and confirm your order will include HRV assessment Image: Please select and confirm your recording will undergo AV-block assessment and grading Image: Please select and delivery of orders made before 12 PM CET Image: Confirm	Cortrium C3+ Space 4/5 GB Charge 100 % Firmware: 20011-01865 Device ID: Caol0072
Web Client: 119,0 Deaktop Client: 115,0 Api: 119,0 License & Labelling		U Safely unplug device
CT Cortrium Test Edit account Log out		

Your add-on options are:

- HRV: Your Holter report will include heart rate variability(HRV) assessment
- AV-Block: Assessment and grading of AV-Block by a senior specialist
- Fast Track: Same day delivery of orders made before 12pm CET

When you are satisfied with your choice of analysis options you can click "Confirm" to continue.

In case you have chosen add-ons to your analysis you will be prompted with a message informing if your selections will incur additional charges.

To continue click on "Confirm".



🗟 Cortrium Apex Edit View Window		- • ×
Y Cortrium	Patient information	
Open Device	Cortrium Test	Edit patient information
Recordings	😁 Male (63) # 28081960 Q Other 🎎 256 Hz 💿 1 day 💠 No pacemaker	
💙 Customer Care		
	Curration URATION 1 day 2023-03 Order details: Order details: AV-block (extra charges will be applied) Fast Track (extra charges will be applied) Cancel	Cortrium C3+ Space 4/5 GB Charge 100 %
Web Client: 1.18.1 Desktop Client: 1.15.0 Apt: 1.18.0 License & Labelling		Printware, 2001-01003 Device ID: C3010072
CT Cortrium Test Edit account Log out		

The recording is now uploading.



<u>ن</u> Cortrium Apex Edit View Window		- 🗆 X
Cortrium	Patient information	
 G Open Device 	Cortrium Test ㎡ Male (63) # 28081960 Q Other 郞 256 Hz ⓒ 1 day 今 No pacemaker	Edit patient information
	Recordings on this device	
	DURATION SUMMARY	
	1 day 0% lead off Actions ✓ 2023-03-13 → 2023-03-14 11 events Actions ✓ ③ Erase all and prepare for new patient Image: Comparison of the patient Image: Comparison of the patient	
		Cortrium C3+
		Space 4 / 5 GB
		Charge
Web Client: 1.18.1 Desktop Client: 1.15.0		100 % Firmware: 20011-01665 Device ID: C3010072
Api: 1.18.0 License & Labelling	The Uploading recording to Cortrium Apex for processing - please do not unplug your device	
CT Cortrium Test Edit account Log out	Copying recording to local folder 100%	

After uploading the recording, the Holter report will be made available when analysed. The device can already be prepared for a new patient as soon as the recording has been uploaded.

Depending on your account settings you will be informed via email when the Holter report is ready to view. Apex also presents newly completed reports with a red dot for easy identification.

The next section explains how to view the Holter report as soon it is analysed and how to view the entire recording right after upload.



6. View Holter reports and the entire recording

In Cortrium Apex you can view the Holter reports as PDF and you can view the entire recording right after uploading it for analysis. How to view the Holter reports is described below and how to use the "Recording viewer" is explained in section 6.2.

6.1 View Holter reports

Once a recording has been analysed, you can view the Holter report as a PDF.

To do this, go to the menu item "Recordings" and click on the respective patient. You can then view the PDF report in the last line under Holter report. The Holter report will open in your web browser.

🛓 Cortrium Apex										- 0	×
Edit View Window										U	~
Y Cortrium	Recordin	igs									
Open Device	Search record	dings	Search	<u>Clear</u>		From	mm/dd/yyyy	То	mm/do	/уууу	
Recordings	USER≡↓	PATIENT			≡↓	RECORDING D	ATE		≡↓	REPORT	
♡ Customer Care	СТ	Cortrium Test Male 2808196				1 day 2023-03-13				Analyse	ł
	GT	Cortrium Test Male 2808196				1 day 2023-03-13				Analyse	i)
Web Client: 118.1 Desktop Client: 115.0 Api: 118.0 License & Labelling									Previou	s Ne	xt
CT Cortrium Test Edit account Log out											



🛓 Cortrium Apex Edit View Window				- 0 X			
Cortrium							
Open Device	/ Edit						
Recordings							
🛇 Customer Care							
	Uploaded By						
		um Internal > Cortrium 📋 20	024-01-30 12:31				
	Recording Summa	ary					
	③ 1 day	↓ 11 events	🎸 No pacemaker	③ 0.0% lead off			
	🗎 2023-03-13 11:54	배 256 Hz	@ C3100175				
	View recording			View >			
	Download recording in .EDF fo	rmat		Download			
	Holter Reports						
	Order Holter report						
	Ordered: 2024-02-16 07:36						
	Delivered: 2024-02-16 13:00 Features ordered:			/ Edit report PDF			
COT Edit account	HRV AV-block Fast	Track					



6.2 Recording viewer

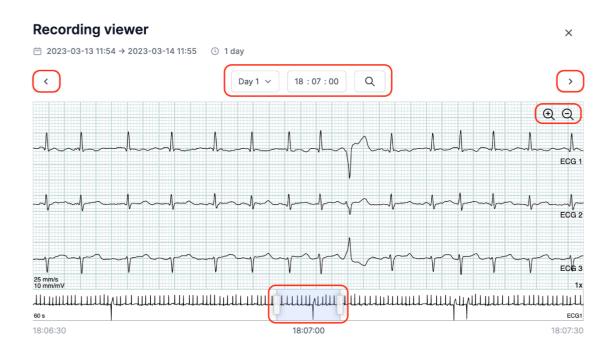
To view the entire recording after upload, click on recordings and select the patient whose recording you want to view (see first screenshot in section 6.1). Now you can use the Recording viewer by pressing the "View" button.

Cortrium Apex				- 0 X				
Cortrium	Delete recording							
Open Device	ce Cortrium Test							
Recordings	🗎 Male 📋 1960-08-28 (6	/ Edit						
💙 Customer Care		33) # 28081960 Q Oth						
Uploaded By & Cortrium Test □ Cortrium Internal > Cortrium □ 2024-01-30 12:31								
	Recording Summ	ary						
	③ 1 day	↓ 11 events	🍫 No pacemaker	② 0.0% lead off				
	2023-03-13 11:54	411 256 Hz	@ C3100175					
	View recording			View >				
	Download recording in .EDF fo	ormat		Download				
	Holter Reports							
Web Client: 1.18.1 Desktop Client: 1.15.0	Order Holter report							
Api: 1.18.0 License & Labelling	Ordered: 2024-02-16 07:36							
	Delivered: 2024-02-16 13:00 Features ordered:							
CT Cortrium Test Edit account Log out	HRV AV-block Fast	t Track						

The recording viewer opens.

- The viewer loads 1 minute of data, and shows 7 seconds of ECG at a time.
- With the highlighted interactive features, you can choose the day, hour, minute, and second you would like to view in the recording. Select the time and click on the search icon to confirm the setting.
- By holding and dragging the light blue bar on the bottom of the viewer you can view the 60 seconds surrounding the chosen timepoint.
- By clicking on the navigation arrows or dragging the view to the edge, you can move forwards and backwards in the recording.
- Additionally, if the signal amplitude is low, you can increase it by using the zoom functionality.





To close the Recording viewer, click on the "x" in the top right corner.

6.3 Summary editor

After receiving your report, you have the option for editing the summary if you have specific wording or information you would like to include.

To do this, click on recordings and select the patient whose report summary you would like to edit. Now you can use the Summary editor by pressing the "Edit report" button in the last line under Holter report.

7. Edit patient details and view details of recordings

After selecting the menu item "Recordings", you can click on a recording to open a summary with the related details.

The summary of the recordings contains details such as:

- Duration of the recording
- Start date and time
- Lead off, i.e., periods when the electrodes were not in contact with the body
- Events, when the patient pressed the button to indicate symptoms or an event
- Sampling frequency of the ECG signal



• Information about pacemaker if noted when the device was prepared for a new patient

View Window Cortrium	Recordir	as			
• Apex	Search recor			From mm/dd/yyyy t	To mm/dd/yyyy
Recordings	USER≡↓	PATIENT	≡↓	RECORDING DATE	■ REPORT
🗢 Customer Care	CT	Cortrium Test (63) Male 28081960		1 day 2023-03-13	Analysed
	G	Cortrium Test (63) Male 28081960		1 day 2023-03-13	Analysed

The patient information can be edited by clicking on the "Edit" button.

A Cortrium Apex				- 0 X
Cortrium				Delete recording
G Open Device	Cortrium Test			/ Edit
Recordings	🗎 Male 📋 1960-08-28 (6	3) # 28081960 Q Othe	er	
♥ Customer Care	Uploaded By & Cortrium Test 🗈 Cortri	um Internal > Cortrium 🗎 20	024-01-30 12:31	
	Recording Summa	ary		
	③ 1 day		A No pacemaker	⑦ 0.0% lead off
	2023-03-13 11:54	111 256 Hz	@ C3100175	
	View recording			View >
	Download recording in .EDF fo	rmat		Download
	Holter Reports			
Web Client: 1.18.1 Desktop Client: 1.15.0	Order Holter report			
Api: 1.18.0 License & Labelling	Ordered: 2024-02-16 07:36			
	Delivered: 2024-02-16 13:00 Features ordered:			
Contrium Test Edit account Log out	HRV AV-block Fast	Track		

The adjustments can be saved by clicking on the "Save" button.



🛓 Cortrium Apex				- 0 ×
Edit View Window				
Cortrium	ⓒ Recording det			
Open Device	Cortrium Test	Cortrium Test		
Recordings	🗎 Male 🗎 1960-08-2	28 (63) # 28081960 Q Other		/ Edit
💙 Customer Care				
	Patient	Patient ID	Date of birth	
		28081960	08/28/1960	
		First name	Last name	
		Cortrium	Test	
		Gender	Reason for recording	② 0.0% lead off
		○ Female ● Male ○ Other	Other	<u>·</u>
	Notes	Notes on patient or recording		
				View >
	1		_	Download
			Cancel 💮 Sar	ve
	Order Holter report			
	Ordered: 2024-02-16 07:3			
	Delivered: 2024-02-16 13 Features ordered:			Edit report PDF
CT CT Edit account Log out	HRV AV-block	Fast Track		



8. Delete a recording

To delete a recording, open the "Recordings" section and click on the recording you want to delete. Now click on "Delete recording" in the top right corner. After typing in the patient name the deletion must be confirmed by pressing "Delete".

🛓 Cortrium Apex Edit View Window				- 0 X
Cortrium	Recordings			
G Open Device	Search recordings	Search <u>Clear</u>	From mm/dd/yyyy	To mm/dd/yyyy
Recordings	USER= PATIENT	≡↓	RECORDING DATE	= REPORT
Customer Care	CT Cortrium Test (6: Male 28081960	3)	1 day 2023-03-13	Analysed
	CT Cortrium Test (6: Male 28081960	3)	1 day 2023-03-13	Analysed
				Previous Next
Cortrium Apex Edit View Window				- 🗆 X
Cortrium	€ Recording details			Delete recording
ᢙ Open Device健 Recordings	Cortrium Test	# 28081960 Q Other		/ Edit
♥ Customer Care	Uploaded By & Cortrium Test 🗈 Cortrium	n Internal > Cortrium 🗎 2024	4-01-30 12:31	
	Recording Summa	ry		
	 ⊙ 1 day ⊟ 2023-03-13 11:54 	 ↓11 events ↓11 256 Hz 	No pacemakerC3100175	② 0.0% lead off
	View recording			View >
	Download recording in .EDF form	nat		Download
Web Cilent: 118.1 Desktop Cilent: 115.0 Api: 118.0 License & Labelling	Holter Reports	(Lo	ading data	
CT Cortrium Test Edit account Log out				



Cortrium Apex Edit View Window		- 0 X			
≺ Cortrium Apex	€ Recording details	Delete recording			
G Open Device	Cortrium Test	/ Edit			
Recordings	🗂 Male 📋 1960-08-28 (63) # 28081960 Q Other				
♥ Customer Care	Uploaded By & Cortrium Test De Cortrium Internal > Cortrium 🗎 2024-01-30 12:31				
	Confirm delete You are removing Cortrium Test Cortrium Test Cortrium Test Cortrium Test Cancel	O.0% lead off View >			
	Download recording in .EDF format	Download			
Web Client: 118.1 Oresktop Client: 1.15.0 Apr: 118.0 License & Labelling Cortrium Test Edit account	Holter Reports				
Log out					



9. Download EDF file

The EDF file can be downloaded before ordering the Holter report or after. The two different cases are described in the next sections.

9.1 How to download EDF file before ordering the Holter report

Follow these steps to convert a recording to EDF format:

- Connect the C3⁺ Holter monitor to the computer and press the "Open Device" button in the left menu.
- Click on the "Actions" button and select "Upload and export as EDF".

🛆 Cortrium Apex			- 0 ×
Edit View Window	Patient information		
Open Device Recordings	Cortrium Test	- Ĵli 256 Hz _ ⊙ 1 day 🔶 No pacemaker	Edit patient information
Customer Care	Recordings on this device		
	DURATION 1 day 2023-03-13 → 2023-03-14 ③ Erase all and prepare for new patient	SUMMARY O% lead off I events Order Holter report C Upload and export as EDF	
			Cortrium C3+ Space 4 / 5 GB Charge
Web Client: 1.18.1 Desktop Client: 1.15.0 Api: 1.18.0 License & Labelling			Firmware: 20011-01665 Device ID: C3010072
CT Cortrium Test Edit account Log out			

- The recording is transferred to Apex.
- When the transfer is complete, the "Actions" button changes to "View".



🛓 Cortrium Apex Edit View Window			- 0 ×
Y Cortrium Apex	Patient information		
 G Open Device G Recordings C Customer Care 	Cortrium Test 鬥 Male (63) # 28081960 Q Other 郞 256 Hz ⓒ 1 day	/ 🗳 No pacemaker	Edit patient information
	Recordings on this device		
	DURATION SUMMARY		
	1 day 2023-03-13 → 2023-03-14 0% lead off 11 events	Actions 🗸	0
	Erase all and prepare for new patient		
Web Client: 118.1			Cortrium C3+ Space 4 / 5 GB Charge 100 % Firmware: 20011-01665
Desktop Client: 1.15.0 Api: 1.18.0 License & Labelling			Device ID: C3010072
COTTIUM Test Edit account Log out	Oploading recording to Cortrium Apex for processing - please do not un Copying recording to local folder 100%	plug your device	
Cortrium Apex			×
Edit View Window	Patient information		
Open Device	Cortrium Test		A Edit estimation
 Recordings Customer Care 	晉 Male (63) # 28081960 Q Other 🕼 256 Hz 💿 1 day	/ 🍫 No pacemaker	Edit patient information
	Recordings on this device		
	DURATION SUMMARY		
	1 day 0% lead off 2023-03-13 → 2023-03-14 11 events ③ Erase all and prepare for new patient	View >	
			Cortrium C3+
			Space
			4 / 5 GB Charge
Web Client: 1.18.1			100 % Firmware: 20011-01665 Device ID: C3010072
Desktop Client: 1.15.0 Api: 1.18.0 License & Labelling			(¹) Safely unplug device
CT Cortrium Test Edit account Log out			

• Click on the "View" button to see the recording overview.



- The sub-item "Download report in EDF format" shows the following information:
 - While the recording is being converted, the progress is displayed
 - When the EDF file is ready, click the "Download" button to save the EDF file on your computer

A Cortrium Apex				- 0 X
Cortrium		Delete recording		
Open Device Recordings	Cortrium Test ➡ Male	3) # 28081960 Q Oth	er	/ Edit
♥ Customer Care	Uploaded By & Cortrium Test Cortri Recording Summa () 1 day () 2023-03-13 11:54	um Internal > Cortrium 芭 2 ary 유 11 events 백 256 Hz	024-01-30 12:31 ∲ No pacemaker ⊕ C3100175	③ 0.0% lead off
	View recording	rmat		View >
Web Client: 118.1 Desktop Client: 115.0 Api: 118.0 License & Labelling Cortrium Test Edit account Log out	Holter Reports Order Holter report Ordered: 2024-02-16 07:36 Delivered: 2024-02-16 13:00 Features ordered: HRV AV-block Fast	Track		Edit report PDF

9.2 How to download EDF file after ordering a report

If you have just ordered a report of a recording and now want to download the recording in EDF format, proceed as follows:

- When the device is connected, click on the menu item "Open device", then click on the "View" button next to the recording.
- In the "Recording details" screen, click on "Download" to download the EDF file.

If you want to download a previous recording in EDF format:

- click on the menu item "Recordings"
- click on the recording you want to download in EDF format
- and then click on "Download" as illustrated below



Cortrium Apex				>
≺ Cortrium Apex	Recording detail	S		Delete recording
☆ Open Device	Cortrium Test	/ Edit		
 Recordings Customer Care 	🗎 Male 📋 1960-08-28 (6	3) # 28081960 Q Othe	er	
		um Internal > Cortrium 🗎 21	024-01-30 12:31	
	Recording Summ	ary		
	 ① 1 day □ 2023-03-13 11:54 	↓ 11 events ₩ 256 Hz	✤ No pacemakerⓓ C3100175	⑦ 0.0% lead off
	View recording			View >
	Download recording in .EDF fo	rmat		Download
	Holter Reports			
Web Client: 1.18.1 Desktop Client: 1.15.0	Order Holter report			
Api: 1.18.0 License & Labelling	Ordered: 2024-02-16 07:36 Delivered: 2024-02-16 13:00			
CT Cortrium Test Edit account Log out	Features ordered:	Track		

10. Log out of Cortrium Apex

It is important to remember to log out of the application by clicking on the "Log out" button in the bottom left corner.

Cortrium Apex will automatically log out of your user account after an extended period of inactivity.

If your institution has multiple users with separate accounts for Cortrium Apex, but the users are working from the same computer, please ensure you log out of Cortrium Apex when you have finished your tasks.

11. Software-Updates

When started, the application automatically checks for available updates and installs them immediately.

12. Minimum technical requirements

The minimum requirements for the operation of Cortrium Apex are:

• Windows 10 or MacOS Catalina (Intel).



- 1280 x 960 Pixel screen resolution.
- 4 GB RAM.
- 5 GB free hard disk space.
- Internet connection.

Cortrium Apex requires an internet connection. The upload speed of the connection determines the time it takes to upload a recording when you order a report or convert the recording to another format. The download speed determines the time it takes to download a converted recording.

Downloading and viewing a report usually takes only a few seconds on a 10 Mbps internet connection.

13. Troubleshooting

13.1 "The device seems to be set up for a patient..."

If you see the warning: "*Warning. The device appears to be set up for a patient, but we cannot find the patient data in the system. Please set up a patient for the records*", simply click the "Add Patient Information" button to set up the device for use with Cortrium Apex. This will not remove the records on the device.

13.2 Recording summary shows "n/a lead off" or "n/a events"

If the recording summary shows "n/a lead off" or "n/a events", this is because the firmware on the connected $C3^+$ unit is a version that does not support immediate lead off or event summary. However, the recording is still valid.

13.3 The internet connection was interrupted.

If you see the message "Cortrium Apex is having trouble accessing the Internet", your internet connection may have been interrupted or lost. Please contact your facility's IT support or your internet service provider for assistance in restoring your internet connection.

• Cortrium Apex automatically tries to connect to the Internet again. A message indicates when the next connection attempt will be made



- If there is no internet connection when Cortrium Apex is started, a message will be displayed indicating that you appear to be offline
- If you were transferring a recording when the internet connection was lost, you may need to restart the transfer when the connection is restored

13.4 Apex is newly installed but does not open

This issue may occur due to a firewall blocking the Cortrium Apex application. In case Apex does not start due to a firewall, please ensure that the URL links in section 16 "Infrastructure statement" are unblocked or "whitelisted" in the firewall. Please contact your facility's IT for support.

14. Security information

User management

 Every user of Cortrium Apex must use their own account. You can create and delete as many user accounts as you need at <u>https://apex.cortrium.com</u> It is important that you are able to determine and regulate who has access to the sensitive data of your patients.

Passwords

- Ensure that you are using a safe password
- Do not share your login and/or password with others
- Avoid using the same password for multiple accounts Re-using the same password could result in that an adversary may be able to gain access to all your systems and computers, if just one password is compromised.
- Remember to log out of Cortrium Apex If you remain logged in, other users actions in the system will appear to be yours

Encryption and additional protection

Before installing Cortrium Apex on a computer we recommend you:

- Enable disk encryption In case the computer is lost or stolen sensitive data on the computer will not be readable
- Enable automatic system updates Increases the chance that the computer stays up-to-date with security updates
- Enable built-in security software (e.g. Windows Security) if available
- Firewall, anti-malware, anti-phishing and anti-virus protection is built into Windows. We highly recommend you enable it. 27/34



15. Labelling and symbols

The following is a representation of the labelling and symbols found in Cortrium Apex:



Cortrium Apex UDI:(01)05745000379033(8012)1.15.0

Example of label

Symbol	Name	Requirement / note
	Date of Manufacture	ISO 15223-1
Ĩ	Refer to instruction manual/booklet	ISO 7000 - 1641
	Caution sign	ISO 7000 - 0434A
CE 0123	CE approved device with notifying body identification number	MDR (EU/745/2017)
MD	Medical Device	ISO 15223-1:2021

16. Infrastructure statement

Cortrium ApS declares that its product, Cortrium Apex is deployed in the Microsoft Azure cloud computing service. Some of the URLs are dependent on the location where the product is being used. The table below contains addresses used by the system:

URL	Description	
		00/04



api.apex.cortrium.com	Cortrium Apex API.
viewer.apex.cortrium.com	Cortrium Recording Viewer API.
apex.cortrium.com	Cotrium Apex administrator interface.
client.apex.cortrium.com	Cortrium Apex web client.
login.cortrium.com	Auth0 login endpoint.
assets.apex.cortrium.com	Assets downloads, such as Desktop
	Client.
support.cortrium.com	Support website.
cortriumukrecordingapex.blob.core.windows.net	Recordings blob storage (UK South).
cortriumfrrecordingapex.blob.core.windows.net	Recordings blob storage (France
	Central).
cortriumeurecordingapex.blob.core.windows.net	Recordings blob storage (Germany
	West Central).
cortriumaurecordingapex.blob.core.windows.net	Recordings blob storage (Australia
	East).
rt.services.visualstudio.com	Used by Microsoft Azure Application
dc.services.visualstudio.com	Insights (telemetry).

Port 443 (HTTPS) needs to be opened for all the URL's above. The first 7 rules of this list can be simplified by whitelisting the whole Cortrium domain (*.cortrium.com). This also reduces the risk of needing to make future adjustments, when this list changes.



Appendix I

i. Available Integrations

The following integrations are country-specific and therefore not enabled for all customers:

• GDT Patient File

Enables Apex to set up a patient using a GDT patient file.

• DICOM Encapsulated Report

Enables Apex to download a report encapsulated in DICOM-formatted patient information.

• CPR Patient Lookup

Enables Apex to set up a patient using a Danish CPR number lookup.



ii. GDT Patient File

- Click to select or drag the GDT patient file onto the GDT input field in Apex.
- Once the file has been loaded the patient information is filled out.
- Loaded information cannot be edited.

🛓 Cortrium Apex				– 🗆 X
Edit View Window	r		A	A
Cortrium	Patient	GDT patient file		
Арех		Ē	5	
Open Device				
Recordings		Patient ID	Date of birth	
💙 Customer Care		Fallent ID	mm/dd/yyyy	
		First name	Last name	
		Gender	Reason for recording	
		○ Female ○ Male ○ Other	Not selected ~	\bigcirc
	Notes	Notes on patient or recording		
				um C3+
Web Client: 1.20.1 Desktop Client: 1.15.0			li	
Api: 1.20.0 License & Labelling	Device setup	Recording length Pacemaker	Sample rate	5 GB
-		1 day 🗸 None	✓ 256 Hz ✓	
CT Edit account		Please note that analysis cannot be guarant		100 %
Log out				: 20011-



iii. DICOM Encapsulated Report

- To download DICOM Encapsulated Report click the download button in the holter report section under the selected patient.
- Once the button is click the file is downloaded, the file ending is .DCM

🛓 Cortrium Apex				_	×
Edit View Window					
Cortrium	Uploaded By				•
Open Device	🖧 Cortrium Test 🛛 📠 Cort	rium Internal > Cortrium	2024-07-10 09:03		
Recordings					
🛇 Customer Care	Recording Summ	nary			
	I day	1 events	🎝 No pacemaker	⑦ 0.1% lead off	
	🗎 2024-07-03 11:45	해 256 Hz	@ C3040293		
	View recording			View >	
	Download recording in .EDF	format		Download	
	Holter Reports				
Web Client: 1.20.1 Desktop Client: 1.15.0	Order Holter report				
Api: 1.20.0	Ordered: 2024-07-10 09:03				
License & Labelling	Delivered: 2024-07-10 12:08		/ Edit report	DICOM DICOM	
CT Cortrium Test Edit account Log out	Features ordered:	st Track			•



iv. CPR Patient Lookup

- Enter the patient's Danish CPR into the field and press "Search."
- The patient information is retrieved from the CPR register.
- The retrieved information is filled into the patient information fields.
- Loaded information cannot be edited.

🛓 Cortrium Apex				– 🗆 X
Edit View Window				A
Cortrium				
Apex	Patient	CPR number	Date of birth	
Open Device		Search	mm/dd/yyyy	
Recordings		First name	Last name	
🛇 Customer Care				
		Gender	Reason for recording	
		○ Female ○ Male ○ Other	Not selected V	
	Notes	Notes on patient or recording		
				<i>i</i>
	Device setup	Recording length Pacemake	er Sample rate	ım C3+
Web Client: 1.20.1		1 day v None	✓ 256 Hz ✓	
Desktop Client: 1.15.0 Api: 1.20.0 License & Labelling		GB		
	() This will e	erase all recordings on the device	Cancel 🕥 Save to device	
CT Cortrium Test Edit account Log out	-			00 %
			Firm	ware: 20011-







09/2024

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