

WEBINAR W-3-25

Auto Positions



Linda Ungsten Product Manager





ARCOMA WEBINAR

Autopositions • 4th of April 2025

- Intro: What is an Auto position?
- 999 Autopositions New *Release: May, 2025*
- Autoposition Modes and Workflow Settings
- Q&A



ARCOMA WEBINAR - OVERVIEW

Autopositions • 4th of April 2025





AUTO POSITIONS DEFINITION



What is an Autoposition?

The **ARCOMA Precision i5 / Aceso+** system can automatically position itself based on the selected examination or protocol. When a protocol is chosen, the system moves to the correct position with the activation of a servo button. When the position is reached, the OTC will track the Wall stand detector or the Tabletop height.

Benefits with autoposititon:

- Increased Efficiency and faster Examinations
- Ergonomic Benefits for the user
- Enhanced Patient Experience
- Improved Image Quality
- Less risk for Retakes





Activation of Autoposition

- 1. SELECT PROTOCOL
- 2. ACTIVATE SERVO BUTTON









How is an Autoposition defined?

The Overhead tube crane is positioned in the room. $oldsymbol{\Theta}$

The position is then assigned with:

- Auto position number
- Mode: Decides how the system will act when the position is reached/activated.
- SID

The auto position number is selected for the examinations / protocols. Additional settings can be done in the protocol.



PROTOCOL – AUTO POSITION

CANON PROTOCOL EDITOR PARAMETERS RELATED TO AUTOPOSITIONING

	NAME	Very Small	Small	Medium	Large	
	Rad mA	50.0	200.0	100.0	160.0	
	ms	10.0	80.0	100.0	200.0	
	Technique	AEC	AEC	AEC	AEC	
	Film	Film Screen 2	Film Screen 2	Film Screen 2	Film Screen 2	
	Focus	SMALL	SMALL	SMALL	SMALL	
	Left Field	YES	YES	YES	YES	
	Center Field	NO	NO	NO	NO	
	Right Field	NO	NO	NO	NO	
	Receptor	3	3	3	3	
	Density	0	0	0	0	
	AEC Fields Orient.	1-2-3 Portrait	1-2-3 Portrait	1-2-3 Portrait	1-2-3 Portrait	
	AutoPosition On	YES	YES	YES	YES	
	Auto Position	2	2	2	2	
	Auto Pos Offset	-999999	-999999	-999999	-999999	
	Receptor Ori. On	NO	NO	NO	NO	
	PortraitLandscape	Portrait	Portrait	Portrait	Portrait	
	Filter On	YES	YES	YES	YES	
	Filter	2	2	2	2	
	Collimator On	YES	YES	YES	YES	
	CollimatorWidth	150.0	150.0	150.0	150.0	
	CollimatorHeight	150.0	150.0	150.0	150.0	
	CollimatorCentering	CENTER	CENTER	CENTER	CENTER	
	SID On	NO	NO	NO	NO	
	SID	-1.0	-1.0	-1.0	-1.0	
*						\sim

PARAMETER	Description of parameter	
Auto Position On	Defines if Auto position shall be used.	YES for Autopositioning
Auto Position	Auto position number	- AUTOPOSITION NUMBER
Auto Pos Offset	Alpha offset, -135° degrees to +135°	Define OTC rotation
Detector Angle On	Defines if the Wall stand detector shall be tilted	YES when Wall stand detector shall be tilted
Detector Angle	-20° to +90°	Define detector angulation







PROTOCOL – WALL STAND

HOW TO DEFINE AUTOPOSITION AND CANON PROTOCOL TO REACH THE DIFFERENT START POSITIONS UPON ACTIVATION OF THE AUTO POSITIONING (SERVO BUTTON).

	Settings to go to the Start po	osition (auto position)			
START POSITION	AUTO POSITION	CANON PROTOCOL	POSSIBLE USER ADJUSTEMENTS		
Þ	Pos = 1 [*] Autoposition with vertical detector.		Detector Angle with OTC keeping perpendicular position. OTC angle of incidence (pendulum) ^{**)} .		
T D	Pos = 1* Autoposition with vertical detector.	Use Auto Pos Offset in Protocol	Detector Angle with OTC keeping perpendicular position. OTC angle of incidence (pendulum) ^{**)} .		
V IO	Pos = 1 ^{*)} Autoposition with vertical detector.	Use Detector Angle in Protocol	Detector Angle with OTC keeping perpendicular position. OTC angle of incidence (pendulum) ^{**)} .		

*) Position 1 is only an example to show that same position can be used for all three examples. **) Pendulum mode can be used for detector angles -20° to +20°.



ADD NEW AUTO POSITION & MODES

Position	is		
Auto p Pos. 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	ositions Mode Free Mode Table flexible Wall flexible Film tracking Auto position Stitching Wall Stitching Table Pendulum Auto position Stitching Table Wall flexible Stitching Wall Wall flexible Film tracking Stitching Wall Wall flexible	FFD 1100 1100 1700 1100 0 1800 1000 1100 0 1100 1800 1800 1800 1800 1800 1800 1800 1800 1000 1	Position (1/10 mm) Node X Node Y Node Z Node A Node B Bucky Node WS [13325] 15448 15950 0 272 18120 14588 Position Mode Olfset Z FFD 0 0 No Wait Wilke Remove Wilke Remove Wilke Remove
Auto position #	Mode		the list.

AVAILABLE MODES						
FREE	TABLE	WALL STAND				
Free Mode	Table Flexible	Wall Flexible				
Auto Position	Film Tracking	Stitching Wall				
	Pendulum					
	Stitching, Table					
SELECTED MODE [DEFINES					

- Possible Movements
- Selected workplace
- When Exposure is possible



AUTO POSITION - CHECK

The defined Auto positions can be checked quickly from the ARCOMA Service Program.

Select SignalInterface node and check the position of interest. When pushing Start button the system will move to the programmed position. Stop button can be used to stop the movement.

ArcoCeil - [SignalInterface node] File Edit View Operations Window File Edit View Operations Window R C System ArcoCeil Motor nodes Control nodes Guard node Guard node SignalInterface node Collimator node Table stand	Help Auto position 0.Free mode 8.Wall flex tilt. 1.Auto pos. 9. 2.Auto pos. 10.Wall flex. 3.Film track. 11.Stitching Wall 4.Pendulum 12.Wall flex. 5.Table flex. 13.Stitching Wall 6.Stitching Table 14.Wall flex. 7.Table flex. 15. Select all Clear all	ARCOMA SERVICE PROGRAM
≌∳ Table stand	AUTO POSITION Select auto positions by setting the coherent check box. To select all press the SELECT ALL button and consequently deselect all by pressing the CLEAR ALL button.	



999 AUTO POSITIONS DEFINITION

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999 AUTOPOSITIONS – Interface

Auto positions can be entered via:

- 1) OTC Display, Settings menu 🙆
- 2) Canon PC Open browser, enter 192.168.0.1

Note! Do not use interface 1 and 2 above at the same time.







999 AUTOPOSITIONS – Interface

Auto positions can be entered via:

1) OTC Display, Settings menu



TAB: SERVICE



TAB: SETTINGS, PIN: 1895





999 AUTOPOSITIONS – Interface

STEM		TO POSITION)	
AUTOPOS SY8	Position -	Mode -		SID (cm) -	Save	•	 ADD NEW AUTO POSITON
		ions					
	Press servo	button to go to	selecte	d position			
	Position ▼	Mode 🕶	SID		Clear filter		
	67	Table flexible	100				
	68	Table flexible	100			•	AUTO POSITIONS IN THE SYSTEM
	69	Table flexible	120				
	70	Table flexible	120				
	123	Auto position	120				
	124	Wall stitchind	120 1		8		
		OSITION - INFO	H)	
						•	DETAILED INFORMATION ABOUT THE AUTO POSITON
						CONNECTED ●	



ADD NEW AUTO POSITION

Add new Auto position by defining:

- POSITION (Range: 16-1015)
- MODE
- SID

Additional settings are available for:

- WALL FLEXIBLE MODE > OTC – WS align
- TABLE FLEXIBLE MODE
 > Z offset (mm)

Select SAVE

MEI	- ADD NEW AU	TO POSITION			
SYS	Position	Mode		SID (cm)	
s	700	Wall flexible	9	150 Save	
OHO.		OTC - WS alig	gn ign OTC	-ws	
AUT	<u> </u>	Wait: Stop a	at transp	height	
		ONS			
	Press servo	button to go to	select	ed position	
	Position ▼	Mode 🕶	SID	Clear filter	
	67	Table flexible	100		
	68	Table flexible	100		
	69	Table flexible	120		
	70	Table flexible	120		
	123	Auto position	120		
	124	Wall stitching	120		
	SELECTED P	OSITION - INFO	-		
	<u> </u>				
					CONNECTED



ADD NEW AUTO POSITION





ADD NEW AUTO POSITION: MODE

2. SELECT MODE: WALL FLEXIBLE MODE

osition	Mode	SID (cm)		
700	Wall flexible	-	Save	
5	OTC - WS align			

 ADD NEW AUTO POSITION

 Position
 Mode
 SID (cm)

 700
 Wall flexible
 150
 Save

 OTC - WS align
 No Wait: Align OTC - WS
 Wait: Stop at transp height

NO WAIT





WALL STAND – ALIGNEMENT OPTION (WAIT)



700

AUTOPOS

OTC ALIGNES WITH THE WALL STAND DETECTOR



The OTC will find the center position of the detector and start tracking.





WALL STAND MODE - SETTINGS

ARCOMA SERVICE PROGRAM



\Lambda ArcoCeil - [Master node]		
▲ File Edit View Operations Window	Help	
2 2 R C		
Image: System System ArcoCeil Image: Stand Image: Stand </th <th>Transport interval Set upper 1932 Set lower 1662 FS to BU offset 355 Tabletop offset 355 Tabletop offset 95 Beta offset (deg.) 0 Set offset 0</th> <th>Table position Set pos. 3 28938 28938 Set pos. 4 Picture 6858 Set pos. 1 X/Y zero pos. 14513</th>	Transport interval Set upper 1932 Set lower 1662 FS to BU offset 355 Tabletop offset 355 Tabletop offset 95 Beta offset (deg.) 0 Set offset 0	Table position Set pos. 3 28938 28938 Set pos. 4 Picture 6858 Set pos. 1 X/Y zero pos. 14513
	Wall Flexible param.	Detector Parameters
	Stitching param.	



WALL STAND MODE – SETTINGS – Sideway movements



Adjust WallFlexible parameters	ARCOMA SERVICE
Movements	PROGRAM
Not blocked	
O Beta blocked and Sideways supervised	
C Beta and Sideways blocked	
Autopositioning	Read
Autoposition wallstand	Write
MOVEMENTS Option used to block movements in the system. It is possible to block Beta and Sideway following ways:	/s in
Supervised: Beta is blocked. Sideways is possible to move half distance of the detecto landscape).	r width (in +



WALL STAND – sideway movements

Sideways movements

For sideways movements of the OTC in front of the detector there are three different alternatives. You select the behavior in the Arcoma service program.

WALL STAND OTC MOVEMENTS	SETTING	OTC MOVEMENTS
BETA	Not blocked	All movements of the OTC in front of the detector are allowed.
	Beta blocked and Sideways supervised	Sideways movements allowed until center line of x-ray field reaches the edge of the detector. The servo is then de-activated.
	Beta and Sideways blocked	Only movements that will change the SID-value are allowed. No sideway movements allowed. SETTING

Alpha rotation and SID adjustments always allowed.



WALL STAND MODE – SETTINGS – Autopos.



Auto positioning Wall stand detector

You can select if the detector at the Wall stand shall go to a predefined position or not.

Movements	PROGRAM
Not blocked	
C Beta blocked and Sideways supervised	
C Beta and Sideways blocked	
Autopositioning	Read
Autoposition wallstand	Write
IOVEMENTS	
ption used to block movements in the system. It is possible to block	ck Beta and Sideways in



WALL STAND – Autopositioning detector options



Autoposition wall stand <u>NOT</u> selected Wall stand detector stays in current position and OTC moves to align with the detector.



Autoposition wall stand selected

Wall stand detector will move to the defined height when auto position is performed.

ARCOMA SERVICE PROGRAM SETTING



ADD NEW AUTO POSITION: MODE

2. SELECT MODE: TABLE FLEXIBLE

- ADD NEW A	UTO POSITION _			
Position	Mode	SID (cm)		88 ^{.9} 1
777	Table flexible	115	Save	
	Z offset (mm)			
	0			





TABLE MODES - SETTINGS



itions	itions		PROGRA
Pos. 0 1 1 2 3 4 5 5 6 6 5 5 6 8 9 10 11 12 13 14 10 11 12 13 14 10 11 12 14 15 15 16 16 16 17 17 17 17 17 17 17 17 17 17	Mode Free Mode Table flexible Wall flexible Film tracking Auto position Stitching Wall Stitching Table Pendulum Auto position Stitching Table Wall flexible Stitching Wall Wall flexible Stitching Wall Wall flexible	FFD 1100 1100 1700 1100 0 1800 1000 1100 1800 1800 1800 1800 1800 1800 1800 1800 1900 0 0 0 0 0 0 0 0 0 0 0 0	Node X Node Y Node Z Node A Node B Bucky Node WS [13325] 15448 15950 0 272 18120 14588 Position Offset Z FD Image: No Wait Image: No Wait Image: No Wait WRITE Select mode and set FFD distance (also offset for 'Table flexible' and no wait for 'Wall flexible'). Press the WRITE button to add the position to Image: No Wait flexible').

Offset z defines distance from detector in detector holder to top of detector when placed on the table top with or without a mattress. Can be adjusted for different mattress thicknesses.



AUTO POSITIONS IN THE SYSTEM

Malska Position	VAUTO POSITION n Mode •	SID (cm) -	Save		
	SITIONS				
Press se	rvo button to go to s	elected position			
Positio	n▼ Mode▼	SID	Clear filter		
67	Table flexible	100			
68	Table flexible	100		•	AUTO POSITIONS IN THE SYSTEM
69	Table flexible	120			
70	Table flexible	120			
123	Auto position	120			
124	Wall stitching	120		J	
SELECT	ED POSITION - INFO			•	DETAILED INFORMATION ABOUT THE AUTO POSITON
				CONNECTED ●	



AUTO POSITIONS IN THE SYSTEM

LISTS CAN BE FILTERED

Position 777	Mode Wall flexible OTC - WS alig No Wait: Alig Wait: Stop a	SID (cm) 115 In In OTC - WS t transp height	
AUTO POSITI Press servo I	ONS	elected position	
Enter Filte	er pos: 2 3 5 6 8 9 - ↓	2000 120 150 120 0 0	

FILTER: POSITION

Wall flexible

Wall flexible

Wall flexible 170

Wall flexible 150

Wall flexible 200

170

150

801

805

998877

998888

8200

Position V	Mode 🕶	SID	Clear filter	
700	Wall flexible	150		
ER: MC	DDE			
ER: MC	DDE			

ARCOMA

Clear filter

AUTO POSITIONS IN THE SYSTEM – CHECK

Positio	'n	Mod	le			SID (c	:m)							
777	28	Tab	le flex	tible	x K	115		Sa	ave					
		Z of	fset (r	nm)										
		0										J		
	OSITIC	ONS												
Press s	ervo t	outtor	n to go	to sele	cted	positic	on							
Positio	n▼	M	ode 🔻	SI	5			Clea	r filter					
445		Tabl	e flexib	le 120										
700		Wall	flexible	e 150)									
702		Wall	flexible	e 150										
777		Auto	o positi	on 123	1									
800		Wall	stitchi	ng 110										
801		Wall	flovihl	a 17(J		
ELECT	ED PC	OSITI	ON - IN	FO								 ``````````````````````````````````````		
	is is an an an an an		v	v			we	7		1	No			
Position	Alpha	Beta	value	value	ws	Bucky	tilt	value	Mode	SID	wait	•		
702	3	11	13713	18904	9443	13730	-3	7350	Wall flexible	150	1		_	
			_						· · · · · · · · · · · · · · · · · · ·					
												 , 		

AUTOPOS

- SELECT AN AUTOPOSITON
- GO TO HE POSITION BY
 ACTIVATING THE SERVO BUTTON



NEW INTERFACE VERSUS ARCOMA SERVICE PROGRAM

ARCOMA Service Program

• Position 0

> Will still be used when no Canon Protocol is active. Define as Free Mode.

• Position 1-15

> Will not be shown on the OTC display interface

• Position 1-15

> Shall only be used for tests, for example during installation or service.

Autoposition Interface OTC Display

• Position 16-1015 can be used







AUTO POSITIONS: MODES



Auto position – Free examinations

MODES

FREE MODE > <u>No</u> position defined AUTO POSITION > Position defined



FREE MODE

Designed for emergency examinations or examination with a mobile detector and patient on a stretcher.

Movements

All movements are available. No defined position in the room, the OTC stays in the current position. No tracking of Table or Wall stand.

Exposure Exposure is possible when the ceiling unit is not moving.

Note! The ceiling unit will automatically enter the "Free mode" at start-up.

AUTO POSITION

Designed for emergency examinations or examination with a mobile detector and patient on a stretcher. Good to use for a Parking position.

Movements

When servo button is pressed the OTC goes to the predefined position.

All movements are available. No tracking of Table or Wall stand detector.

Exposure

Exposure is possible when the ceiling unit is not moving.



Table modes

MODES

TABLE FLEXIBLE FILM TRACKING PENDULUM TABLE STITCHING



TABLE FLEXIBLE Designed for examinations with the detector placed on the table top.	FILM TRACKING Designed for examinations of patients lying on the Table with the detector placed in the detector holder.	PENDULUM Designed for examinations of patients lying on the Table with the detector in the detector holder. Only tube angulation.	TABLE STITCH Designed for examinations where stitching of images are needed to cover the whole area of interest.
• OTC go • OTC	pes to a predefined position above will <u>track the table top height to ke</u>	the table when auto positioning is a ep the focus – detector distance co	activated. onstant.
• OTC can be moved freely in all directions.	 Detector will track the OTC movements in longitudinal direction above the table to keep aligned with the central x-ray. When the OTC is angulated the detector will move to keep aligned with the central x-ray. SID can be changed. Lateral movements and beta rotations blocked. 	 When the OTC is angled (pendulum sweep) the detector will keep its position. The center ray is centered to the center of the detector. Pendulum sweep is activated from table control handle. 	 The user will select start and stop position by angle the OTC. When the exposure handle is activated the movement and capturing of images is performed automatically.
EXPOUSURE Exposure is possible when the OTC is not moving, and the servo mode indication light is fixed. <i>Note! In "Table Flexible mode"</i> <i>exposure is possible outside the</i> <i>imaging unit.</i>	EXPOUSURE Exposure is possible when the OTC is not moving, and the servo mode indication light is fixed, and the x-ray beam covers the image unit.	EXPOUSURE Exposure is possible when the OTC is not moving, and the servo mode indication light is fixed.	EXPOUSURE Exposure is possible when the OTC is not moving, and the servo mode indication light is fixed and the stitched image is defined.

AUTO POSITION – WALL STAND MODES

MODES WALL FLEXIBLE WALL STITCHING



WALL FLEXIBLE

Designed for examinations of patients standing up against a vertical moving imaging unit.



MOVEMENTS

When servo button is pressed the OTC goes to the predefined position.

When the detector is moved up or down the OTC will track the detector position.

EXPOSURE

Exposure is possible when the OTC is not moving, and the servo mode indication light is fixed.

WALL STITCH

Designed for examinations of patients standing up against a vertical moving imaging unit when a stitched image is needed.

MOVEMENTS

When servo button is pressed the OTC goes to the predefined position. The user is defining the upper and lower limit of the image. The exposure handle is kept activated during the exposure sequence.

EXPOSURE

Exposure is possible when the OTC is not moving, and the servo mode indication light is fixed and the stitched image is defined.





IMPROVED WORKFLOW



IMPROVED WORKFLOW

INTRODUCED APRIL 2022

- Faster positioning for Wall stand examinations with tilted detector
- Improved workflow for dedicated Chest X-ray rooms





Faster positioning for Wall stand examinations with tilted detector

CURRENT

- Protocol selected and autoposition activated.
- If the detector is too high for the tube to reach the correct position the positioning is stopped.
- User adjust the height of the detector until the requested SID / tube position can be reached.



SID cannot be reached. User move detector down.

NEW

- Protocol selected and autoposition activated.
- System automatically adjust the detector height if needed and goes to requested position.



SID cannot be reached. System automatically adjust detector height.



Faster positioning for Wall stand examinations with tilted detector

- More automated and supporting operation
- Saves time
- Smoother workflow



WORKFLOW

SAME PATIENT

> RE-POSITIONING NEED MINIMIZED > EFFICIENT WORKFLOW



NEWS

No need to reposition between exposures were top (or bottom) centered collimation selected.

No need to reposition between exposures were an autopositioning wall stand detector is used.



WORKFLOW

BETWEEN PATIENTS

> RE-POSITIONING NEED MINIMIZED > EFFICIENT WORKFLOW



NEWS

Servo remains active between patients.

> You can define that servo shall remain active also between patients, under the condition that the same position is used also for next patient.



CHEST ROOM Improvements: Top/Bottom-centring



COLLIMATOR: Top-centring



CHEST ROOM Improvements: Top/Bottom-centring







CHEST ROOM Improvements: Top/Bottom-centring

_	NAME	Very Small	Small	Medium	Large	-
	Rad kV	40	68	76	84	
	Rad mA	50.0	200.0	200.0	200.0	
	ms	10.0	80.0	80.0	80.0	
	mAs	0.5	16.0	16.0	16.0	
	Technique	MAS	MAS	MAS	MAS	
	Film	Film Screen 1	Film Screen 1	Film Screen 1	Film Screen 1	
	Focus	SMALL	SMALL	SMALL	SMALL	
	Left Field	NO	NO	NO	NO	
	Center Field	YES	YES	YES	YES	
	Right Field	NO	NO	NO	NO	
	Receptor	1	1	1	12	
	Density	0	0	0	0	
	AEC Fields Orient.	1-2-3 Portrait	1-2-3 Portrait	1-2-3 Portrait	1-2-3 Portrait	
	AutoPosition On	YES	YES	YES	YES	
	Auto Position	7	7	7	7	
	Auto Pos Offset	-999999	-999999	-999999	-999999	
	Receptor Ori. On	NO	NO	NO	NO	
	PortraitLandscape	Portrait	Portrait	Portrait	Portrait	
	Filter On	YES	YES	YES	YES	
	Filter	1	1	1	1	
	Collimator On	YES	YES	YES	YES	
	CollimatorWidth(mm)	200.0	200.0	200.0	200.0	
	CollimatorWidth(inch)	7.9	7.9	7.9	7.9	
	CollimatorHeight(mm)	100.0	100.0	100.0	100.0	
	CollimatorHeight(inch)	3.9	3.9	3.9	3.9	
	CollimatorCentering	N/A	N/A	N/A	N/A	
	SID On	NO	NO	NO	NO	-

CANON PROTOCOL SETTING > Select collimator centring

COLLIMATION CENTERING SETTING

• Top / Center / Bottom

Default setting can be changed when needed by the user from the tube display.



CHEST ROOM Improvements: Autopositioning detector





CHEST ROOM Improvements: Autopositioning detector







BETWEEN PATIENTS

SERVO CAN STAY ACTIVE BETWEEN PATIENTS





Servo active between patients



IMPROVED WORKFLOW - SUMMARY

- Smart positioning
 Increased system automation
- System instant ready for next exposure
- System instant ready for next patient





SETTINGS - OVERVIEW

Update	Setting performed to activate
Tilted detector, automatic vertical movement	No settings needed, basic feature
Collimator centring Top/Bottom/Center	Canon Protocol Editor
Autopositioning Wall stand detector	Arcoma Service program
Servo active between patients	Arcoma Service program



CHANGE PROTOCOL DIRECTLY ON TUBE

> Adapt for the unique patient and situation by quickly changing protocol on the tube display

Patient-Centered Care

Flexibility to adapt your X-ray workflow seamlessly directly in the examination room.

Efficient Workflow

Save time and reduce errors.





CHANGE PROTOCOL DIRECTLY ON TUBE

Acknowledge message of Canon NE Warnings shown in the OTC display.









ARCOMA PARTNER PORTAL



ARCOMA PARTNER PORTAL

🛦 ARCOMA

X-RAY SYSTEMS REFERENCES

DO YOU WANT TO KNOW MORE ABOUT OUR X-RAY SYSTEMS?

Image: Contact US

Image: Contact US

Image: Contact Your LOCAL DISTRIBUTOR

Image: Contact Your LOCAL DISTRIBUTOR

Products

Products

Image: Contact Your Local Distribution

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- Documents and manuals
- System Software
- Marketing Materials
- Guides
- Training info
- Images
- Videos
- Much more



THANK YOU

Arcoma AB | Annavägen 1 | 352 46 Växjö | Sweden

PHONE



EMAIL



www.arcoma.se



+46 470 70 69 00

service@arcoma.se

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