



WORLD CLASS DIGITAL X-RAY SYSTEMS

2022-04-25

ARCOMA APPLICATION WEBINAR
OMNERA 500A / ACESO+ SW UPDATE – New features

(Reference: SI_2022_121_1000 i5)

NEW SOFTWARE RELEASE - IMPROVED WORKFLOW

- Faster positioning for Wall stand examinations with tilted detector
- Improved workflow for dedicated Chest X-ray rooms
- SW version info in display
- Increased stability



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.

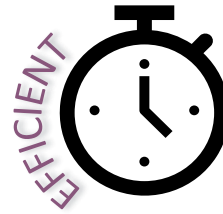
No need to reposition between exposures were an autopositioning wall stand detector is used.



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

1 PROTOCOL selected + activated, servo active

2 ADJUST COLLIMATOR FIELD FOR PATIENT, servo active

3 EXPOSURE

7 OTC position + collimator field size from protocol. OTC will move.

8 ADJUST COLLIMATOR FIELD FOR PATIENT
READY FOR NEXT EXPOSURE



4 NEXT PROTOCOL SELECTED (manual or automatic)
Collimator: Topcentring

5 SERVO De-activated

6 SERVO Re-activated



COLLIMATOR:
Top-centring

CHEST ROOM Improvements: Top/Bottom-centring

1 PROTOCOL selected + activated, servo active

2 ADJUST COLLIMATOR FIELD FOR PATIENT, servo active

3 EXPOSURE

5 SERVO STAYS ACTIVE
Collimator field size kept SYSTEM READY.
READY FOR NEXT EXPOSURE



4 NEXT PROTOCOL SELECTED (manual or automatic)
Collimator: Topcentring



COLLIMATOR:
Top-centring

CHEST ROOM Improvements: Autopositioning detector

1 PROTOCOL selected + activated, detector moves to programmed height. servo active



2 ADJUST DETECTOR HEIGHT FOR PATIENT, servo active



3 EXPOSURE

4 NEXT PROTOCOL SELECTED (manual or automatic)

5 SERVO De-activated

6 SERVO Re-activated

7 OTC & Detector moves to programmed height servo active



8 ADJUST DETECTOR HEIGHT FOR PATIENT Servo active
READY FOR EXPOSURE



CHEST ROOM Improvements: Autopositioning detector

1 PROTOCOL selected + activated, detector moves to programmed height. servo active



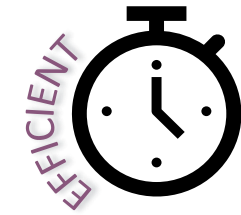
2 ADJUST DETECTOR HEIGHT FOR PATIENT, servo active



3 EXPOSURE

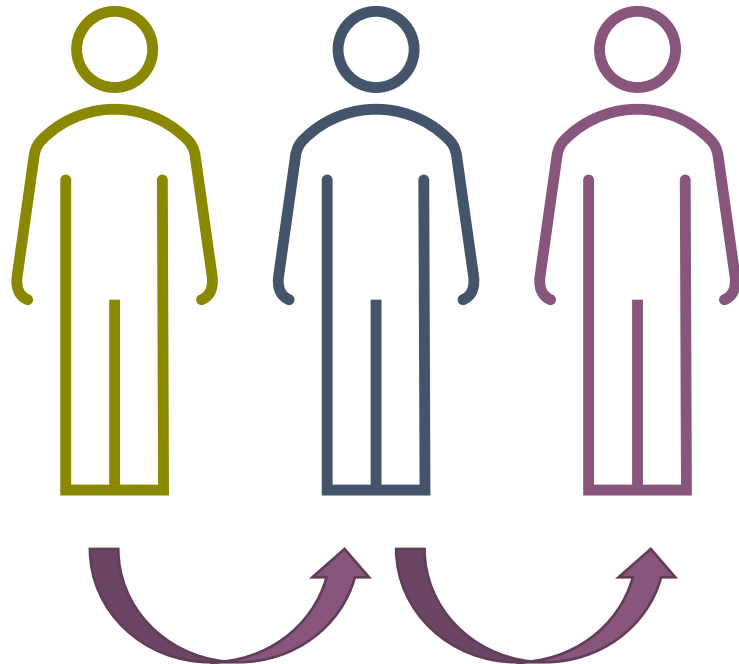
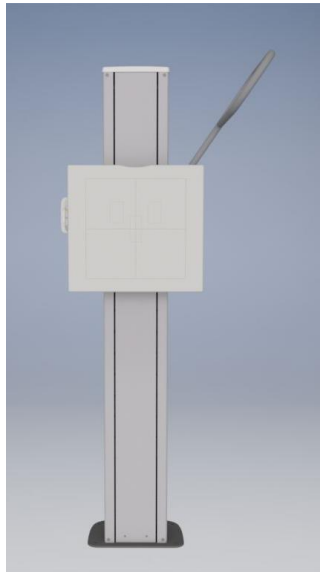
4 NEXT PROTOCOL SELECTED (manual or automatic)
Same autoposition

5 OTC & Detector moves to programmed height servo active
READY FOR EXPOSURE



BETWEEN PATIENTS

SERVO CAN STAY ACTIVE BETWEEN PATIENTS



SAME POSITION? YES > SERVO ACTIVE ● YES? > SERVO ACTIVE ●

SYSTEM INSTANTLY READY



NEW SOFTWARE RELEASE - SW VERSION INFO

SW version for the complete SW package directly on the tube display / System setting menu.

SYSTEM

SYSTEM SETUP

- Wallstand
- WS Hand Control
- Table

Save setup

COLLIMATOR

- Light intensity
- Light time (0-60 s)

SW VERSIONS

System	5.5
System Master	5.5.C
CAN Device	1.5.R
Master	4.7.D
Collimator	2.1.B
X	1.1.B
Y	1.1.B
AB	1.0.A
Wallstand	1.8.A
Bucky	1.6.A
SI	2.1.A
Wallstand Tilt	1.3.A
Hand Control	1.2.A

CONNECTED ●

NEW SOFTWARE RELEASE - IMPROVED WORKFLOW

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





APPLICATION

SETTINGS FOR NEW FEATURES

SETTINGS - OVERVIEW

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



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	1
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

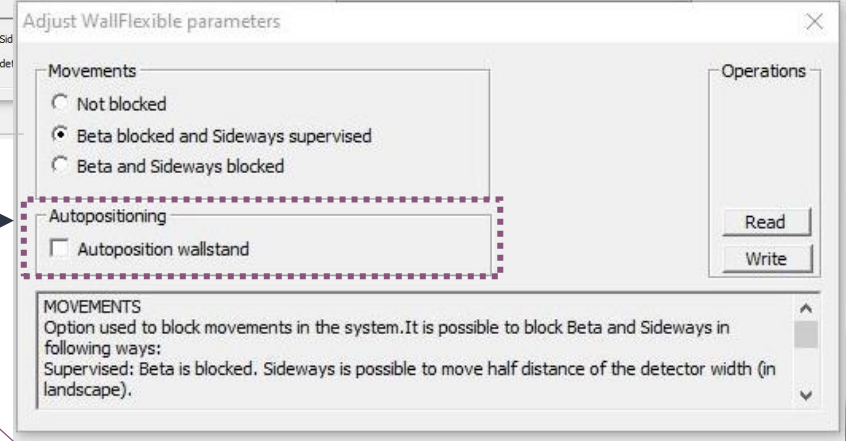
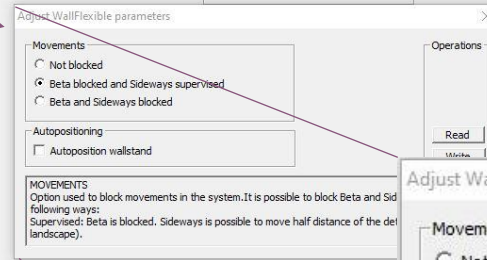
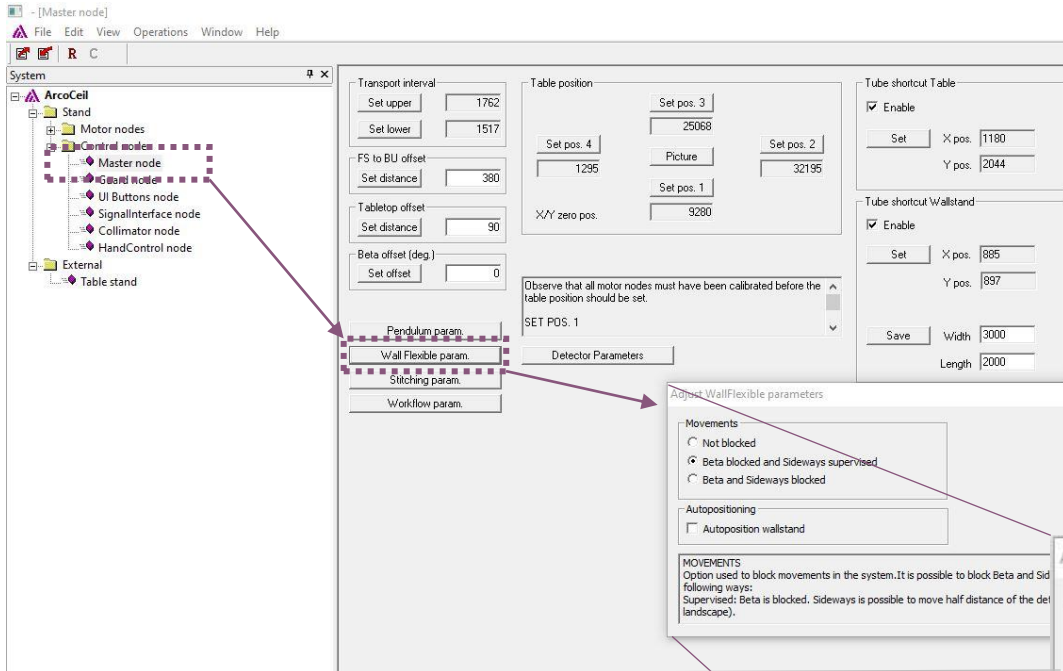
CANON PROTOCOL SETTING
> Select collimator centring

COLLIMATION CENTERING SETTING
• Top / Center / Bottom

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

Auto positioning Wall stand detector

ARCOMA SERVICE PROGRAM



➤ **ACTIVATE** → Auto positioning Wall stand detector. Height of detector is defined when the autoposition is defined.



Servo active between patients

ARCOMA
SERVICE
PROGRAM

The screenshot displays the ArcoCell software interface. On the left, a tree view shows the system hierarchy: Stand, Motor nodes, Control nodes, Master node, Stand node, UI Buttons node, SignalInterface node, Collimator node, HandControl node, External, and Table stand. The main area contains several parameter panels: Transport interval (Set upper: 1762, Set lower: 1517), FS to BU offset (Set distance: 380), Tabletop offset (Set distance: 90), Beta offset (deg.) (Set offset: 0), Pendulum param., Wall Flexible param., Stitching param., and Workflow param. (highlighted with a dashed red box). The Table position panel includes Set pos. 1 through 4 and X/Y zero pos. The Tube shortcut Table and Tube shortcut Wallstand panels have Enable checkboxes and X/Y pos. fields. A note states: "Observe that all motor nodes must have been calibrated before the table position should be set." Below this is a dropdown menu for SET POS. 1 and a Detector Parameters button. A "View Areas" button is at the bottom right. An "Adjust workflow parameters" dialog box is open, showing "End examination" options: "Proceed to autoposition 0" (selected) and "Remain in current autoposition". It also has "Read" and "Write" buttons. A larger, detailed view of this dialog is shown below, including the "END EXAMINATION BEHAVIOR" section: "Option used to control the behavior after an examination has been ended. Proceed to autoposition 0: Autoposition 0 will be set to prepare for next examination".



SAME POSITION?
YES > SERVO ACTIVE

SAME POSITION?
YES > SERVO ACTIVE

THANK YOU

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