

Diagnostic ultrasound imaging system ARIETTA750 check sheet

1/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-1	Appearance and Mechanism Check				
1)	Appearance check	Appearance status Screw status Label status			
2)	Mechanism check	Operation panel up-down operation Operation panel up-down lock operation Operation panel left-right swing operation Operation panel left-right swing lock operation Monitor and monitor arm up-down and swing operations Monitor arm tilt axis, pivot mechanism, and arm lock operations Caster running and lock operation Operation of the RVS stand casters, and vertical and rotational movement of the box			Option
6-4-2	Cleaning				
1)	Disassembly				
2)	Operation panel				
	Monitor				
	Exterior package				
	Probe holder				
	Foot switch				Option
3)	Jelly warmer				Option
4)	Dust filter				
5)	Track ball				
6)	Peripheral parts, power plug				
7)	Probe				
8)	Transvaginal/transrectal probe holder				Option
9)	Adapter for transvaginal/transrectal probe holder				Option
10)	Peripheral devices such as printer				
6-4-3	System Information and Power				
1)	System, probe, and optional device				
2)	Software version				
3)	AC input voltage				
4)	Power voltage				

Diagnostic ultrasound imaging system ARIETTA750 check sheet

2/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-4	Function Check				
1)	Date and time				
2)	Operation panel	Illumination device Touch Panel(Including display state) Key Switch(Including illumination status) Encoder Track ball TGC volume(Including illumination status) Full Keyboard(Including drawing function status and illumination status)			
3)	Probe selector	Each probe connector connection			
4)	B mode	Basic image quality, convex Basic image quality, sector Basic image quality, linear Acoustic Power			
5)	Color flow mode	Basic image quality: Color flow Acoustic Power: Color flow			
6)	PW Doppler mode	Basic image quality: PW Acoustic Power: PW Audio Volume			
7)	Checking the external input/output	Checking the LAN connector Checking the USB port Checking monitor communications Checking the foot switch			Option
8)	Physio. signal display unit				
9)	CW servo unit	Basic image quality: CW Acoustic Power: CW			
10)	IND probe connection unit	Basic image quality: IND probe Acoustic Power: CW			Option Option
11)	RVS	RVS Magnetic sensor for Needle Tracking Magnetic sensor for Body Motion Tracking			Option Option Option
12)	DVI-D In/Out				
13)	Y/C In/Out and Audio In/Out	Y/C In/Out Audio In/Out			
14)	Composite Out				
15)	Optimize Database				

Diagnostic ultrasound imaging system ARIETTA750 check sheet

3/3

No.	Inspection items	Details	Confirmed by		Remarks		
			1	2			
6-4-5	Image Quality Check						
1)	Image quality	Total image quality					
		Coin check					
2)	Integrated Performance Test	Overall sensitivity					
		Resolution, distance resolution					
		Resolution, azimuthal resolution					
6-4-6	Safety Check (IEC60601-1)						
1)	Protective earth conductor continuity check						
2)	Insulation resistance value check						
3)	Leakage current	Earth leakage current	Normal state				
			Single fault condition				
		Enclosure leakage current (a)	Normal state				
			Single fault condition				
		Enclosure leakage current (b)	Normal state				
			Single fault condition				
		Patient leakage current I	Normal state	DC			
				AC			
			Single fault condition	DC			
				AC			
Patient leakage current III							
Patient measurement current (Measured only when the physio unit is connected.)	Normal state	DC			Option		
		AC					
Single fault condition	DC				Option		
		AC					
6-4-6	Safety Check (IEC62353)						
1)	Check of appearance and attached documents						
2)	Check of protective earth resistance value						
3)	Check of leakage current	System leakage current					
		Leakage current in applied part					

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Diagnostic ultrasound imaging system ARIETTA65 check sheet

1/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-1	Appearance and Mechanism Check				
1)	Appearance check	Appearance status Screw status Label status			
2)	Mechanism check	Operation panel up-down operation Operation panel up-down lock operation Operation panel left-right swing operation Operation panel left-right swing lock operation Monitor and monitor arm up-down and swing operations Monitor arm tilt axis, pivot mechanism, and arm lock operations Caster running and lock operation			
6-4-2	Cleaning				
1)	Disassembly				
2)	Operation panel				
	Monitor				
	Exterior package				
	Probe holder				
	Foot switch				Option
3)	Jelly warmer				Option
4)	Dust filter				
5)	Track ball				
6)	Peripheral parts, power plug				
7)	Probe				
8)	Transvaginal/transrectal probe holder				Option
9)	Adapter for transvaginal/transrectal probe holder				Option
10)	Peripheral devices such as printer				
6-4-3	System Information and Power Voltage				
1)	System, probe, and optional device				
2)	Software version				
3)	AC input voltage				
4)	Power voltage				

Diagnostic ultrasound imaging system ARIETTA65 check sheet

2/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-4	Function Check				
1)	Date and time				
2)	Operation panel	Illumination device			
		Touch Panel(Including display state)			
		Key Switch(Including illumination status)			
		Encoder			
		Track ball			
3)	Probe selector	Each probe connector connection			
4)	B mode	Basic image quality, convex			
		Basic image quality, sector			
		Basic image quality, linear			
		Acoustic Power			
5)	Color flow mode	Basic image quality: Color flow			
		Acoustic Power: Color flow			
6)	PW Doppler mode	Basic image quality: PW			
		Acoustic Power: PW			
		Audio Volume			
7)	Checking the external input/output	Checking the LAN connector			
		Checking the USB port			
		Checking monitor communications			
		Checking the foot switch			
		Checking the voltage of the service outlet (Extension outlet unit)			Option Option
8)	Physio. signal display unit				
9)	CW servo unit	Basic image quality: CW			
		Acoustic Power: CW			
10)	IND probe connection unit	Basic image quality: IND probe			Option
		Acoustic Power: CW			Option
11)	Battery Unit				Option
12)	DVI-D In/Out				
13)	Y/C In/Out and Audio In/Out	Y/C In/Out			
		Audio In/Out			
14)	Optimize Database				
15)	HDMI Monitor Connection Unit				Option
16)	External PC				Option

Diagnostic ultrasound imaging system ARIETTA65 check sheet

3/3

No.	Inspection items	Details	Confirmed by		Remarks		
			1	2			
6-4-5	Image Quality Check						
1)	Image quality	Total image quality					
		Coin check					
2)	Integrated Performance Test	Overall sensitivity					
		Resolution, distance resolution					
		Resolution, azimuthal resolution					
6-4-6	Safety Check (IEC60601-1)						
1)	Protective earth conductor continuity check						
2)	Insulation resistance value check						
3)	Leakage current	Earth leakage current	Normal state				
			Single fault condition				
		Enclosure leakage current (a)	Normal state				
			Single fault condition				
		Enclosure leakage current (b)	Normal state				
			Single fault condition				
		Patient leakage current I	Normal state	DC			
				AC			
			Single fault condition	DC			
				AC			
Patient leakage current III							
Patient measurement current (Measured only when the physio unit is connected.)	Normal state	DC			Option		
		AC					
Single fault condition	DC				Option		
		AC					
6-4-6	Safety Check (IEC62353)						
1)	Check of appearance and attached documents						
2)	Check of protective earth resistance value						
3)	Check of leakage current	System leakage current					
		Leakage current in applied part					

Diagnostic ultrasound imaging system ALOKA LISENDO880 check sheet

1/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-1	Appearance and Mechanism				
1)	Appearance check	Appearance status Screw status Label status			
2)	Mechanism check	Operation panel up-down operation Operation panel up-down lock operation Operation panel left-right swing operation Operation panel left-right swing lock operation Monitor and monitor arm up-down and swing operations Monitor arm tilt axis, pivot mechanism, and arm lock operations Caster running and lock operation			
6-4-2	Cleaning				
1)	Disassembly				
2)	Operation panel Monitor Exterior package Probe holder Foot switch				Option
3)	Jelly warmer				Option
4)	Dust filter				
4-2)	TX board				
5)	Track ball				
6)	Peripheral parts, power plug				
7)	Probe				
8)	Peripheral devices such as printer				
6-4-3	System Information and Power				
1)	System, probe, and optional device				
2)	Software version				
3)	AC input voltage				
4)	Power voltage				

Diagnostic ultrasound imaging system ALOKA LISENDO880 check sheet

2/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-4	Function Check				
1)	Date and time				
2)	Operation panel	Illumination device Touch Panel(Including display state) Key Switch(Including illumination status) Encoder Track ball TGC volume(Including illumination status) Full Keyboard(Including drawing function status and illumination status)			
3)	Probe selector	Each probe connector connection			
4)	B mode	Basic image quality, convex Basic image quality, sector Basic image quality, linear Acoustic Power			
5)	Color flow mode	Basic image quality: Color flow Acoustic Power: Color flow			
6)	PW Doppler mode	Basic image quality: PW Acoustic Power: PW Audio Volume			
7)	Checking the external input/output	Checking the LAN connector Checking the USB port Checking monitor communications Checking the foot switch			Option
8)	Physio. signal display unit				
9)	CW servo unit	Basic image quality: CW Acoustic Power: CW			
10)	IND probe connection unit	Basic image quality: IND probe Acoustic Power: CW			Option Option
11)	DVI-D In/Out				
12)	Y/C In/Out and Audio In/Out	Y/C In/Out Audio In/Out			
13)	Composite Out				
14)	Optimize Database				
6-4-5	Image Quality Check				
1)	Image quality	Total image quality Coin check			
2)	Integrated Performance Test	Overall sensitivity Resolution, distance resolution Resolution, azimuthal resolution			

Diagnostic ultrasound imaging system ALOKA LISENDO880 check sheet

3/3

No.	Inspection items	Details	Confirmed by		Remarks		
			1	2			
6-4-6	Safety Check (IEC60601-1)						
1)	Protective earth conductor continuity check						
2)	Insulation resistance value check						
3)	Leakage current	Earth leakage current	Normal state				
			Single fault condition				
		Enclosure leakage current (a)	Normal state				
			Single fault condition				
		Enclosure leakage current (b)	Normal state				
			Single fault condition				
		Patient leakage current I	Normal state	DC			
				AC			
			Single fault condition	DC			
				AC			
Patient leakage current III							
Patient measurement current (Measured only when the physio unit is connected.)	Normal state	DC			Option		
		AC					
Single fault condition	DC				Option		
		AC					
6-4-6	Safety Check (IEC62353)						
1)	Check of appearance and attached documents						
2)	Check of protective earth resistance value						
3)	Check of leakage current	System leakage current					
		Leakage current in applied part					

Revision History of the Service Manual

Diagnostic ultrasound imaging system ALOKA ARIETTA850 check sheet

1/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-1	Appearance and Mechanism Check				
1)	Appearance check	Appearance status Screw status Label status			
2)	Mechanism check	Operation panel up-down operation Operation panel up-down lock operation Operation panel left-right swing operation Operation panel left-right swing lock operation Monitor and monitor arm up-down and swing operations Monitor arm tilt axis, pivot mechanism, and arm lock operations Caster running and lock operation Operation of the RVS stand casters, and vertical and rotational movement of the box			Option
6-4-2	Cleaning				
1)	Disassembly				
2)	Operation panel Monitor Exterior package Probe holder Foot switch				Option
3)	Jelly warmer				Option
4)	Dust filter				
4-2)	TX board				
5)	Track ball				
6)	Peripheral parts, power plug				
7)	Probe				
8)	Transvaginal/transrectal probe holder				Option
9)	Adapter for transvaginal/transrectal probe holder				Option
10)	Peripheral devices such as printer				
6-4-3	System Information and Power				
1)	System, probe, and optional device				
2)	Software version				
3)	AC input voltage				
4)	Power voltage				

Diagnostic ultrasound imaging system ALOKA ARIETTA850 check sheet 2/3

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-4	Function Check				
1)	Date and time				
2)	Operation panel	Illumination device Touch Panel(Including display state) Key Switch(Including illumination status) Encoder Track ball TGC volume(Including illumination status) Full Keyboard(Including drawing function status and illumination status)			
3)	Probe selector	Each probe connector connection			
4)	B mode	Basic image quality, convex Basic image quality, sector Basic image quality, linear Acoustic Power			
5)	Color flow mode	Basic image quality: Color flow Acoustic Power: Color flow			
6)	PW Doppler mode	Basic image quality: PW Acoustic Power: PW Audio Volume			
7)	Checking the external input/output	Checking the LAN connector Checking the USB port Checking monitor communications Checking the foot switch			Option
8)	Physio. signal display unit				
9)	CW servo unit	Basic image quality: CW Acoustic Power: CW			
10)	IND probe connection unit	Basic image quality: IND probe Acoustic Power: CW			Option Option
11)	RVS	RVS Magnetic sensor for Needle Tracking Magnetic sensor for Body Motion Tracking			Option Option Option
12)	DVI-D In/Out				
13)	Y/C In/Out and Audio In/Out	Y/C In/Out Audio In/Out			
14)	Composite Out				
15)	Optimize Database				

Diagnostic ultrasound imaging system ALOKA ARIETTA850 check sheet

No.	Inspection items	Details	Confirmed by		Remarks	
			1	2		
6-4-5	Image Quality Check					
1)	Image quality	Total image quality				
		Coin check				
2)	Integrated Performance Test	Overall sensitivity				
		Resolution, distance resolution				
		Resolution, azimuthal resolution				
6-4-6	Safety Check (IEC60601-1)					
1)	Protective earth conductor continuity check					
2)	Insulation resistance value check					
3)	Leakage current	Earth leakage current	Normal state			
			Single fault condition			
		Enclosure leakage current (a)	Normal state			
			Single fault condition			
		Enclosure leakage current (b)	Normal state			
			Single fault condition			
		Patient leakage current I	Normal state	DC		
				AC		
			Single fault condition	DC		
				AC		
Patient leakage current III						
Patient measurement current (Measured only when the physio unit is connected.)	Normal state	DC			Option	
		AC				
Single fault condition	DC				Option	
		AC				
6-4-6	Safety Check (IEC62353)					
1)	Check of appearance and attached documents					
2)	Check of protective earth resistance value					
3)	Check of leakage current	System leakage current				
		Leakage current in applied part				

Revision History of the Service Manual

Diagnostic ultrasound imaging system ARIETTA50 check sheet

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
6-4-1	Appearance and Mechanism Check				
1)	Appearance check	Appearance status			
		Screw status			
		Label status			
2)	Mechanism check	Operation panel up-down operation			
		Operation panel up-down lock operation			
		Operation panel left-right swing operation			
		Operation panel left-right swing lock operation			
		Monitor and monitor arm up-down and swing operations			
		Monitor arm tilt axis, and arm lock operations			
		Caster running and lock operation			
6-4-2	Cleaning				
1)	Disassembly				
2)	Operation panel				
	Monitor				
	Exterior package				
	Probe holder				
	Foot switch				Option
3)	Jelly warmer				Option
4)	Dust filter				
5)	Track ball				
6)	Peripheral parts, power plug				
7)	Probe				
8)	Transvaginal/transrectal probe holder				Option
9)	Adapter for transvaginal/transrectal probe holder				Option
10)	Peripheral devices such as printer				Option
6-4-3	System Information and Power Voltage				
1)	System, probe, and optional device				

Diagnostic ultrasound imaging system ARIETTA50 check sheet

No.	Inspection items	Details	Confirmed by		Remarks
			1	2	
2)	Software version				
3)	AC input voltage				
4)	Power voltage	Checking the voltage of the service outlet (AC Outlet Expansion outlet unit)			Option
6-4-4	Function Check				
1)	Date and time				
2)	Operation panel	Illumination device Touch Panel(Including display state) Key Switch(Including illumination status) Encoder Track ball			
3)	Probe selector	Each probe connector connection			
4)	B mode	Basic image quality, convex Basic image quality, sector Basic image quality, linear Acoustic Power			
5)	Color flow mode	Basic image quality: Color flow Acoustic Power: Color flow			
6)	PW Doppler mode	Basic image quality: PW Acoustic Power: PW Audio Volume			
7)	CW Doppler mode	Basic image quality: CW			Option
8)	Checking the external input/output	Checking the LAN connector Checking the USB port Checking monitor communications Checking the foot switch			Option
9)	Physiological signal display unit				Option
10)	Battery Unit				Option
11)	DVI-D Out				Option
12)	Y/C Out				Option
13)	HDMI In/Out				Option
13)	Optimize Database				
6-4-5	Image Quality Check				
1)	Image quality	Total image quality Coin check			
2)	Integrated Performance Test	Overall sensitivity Resolution, distance resolution Resolution, azimuthal resolution			

Diagnostic ultrasound imaging system ARIETTA50 check sheet

No.	Inspection items	Details		Confirmed by		Remarks
				1	2	
6-4-6	Safety Check (IEC60601-1)					
1)	Protective earth conductor continuity check					
2)	Insulation resistance value check					
3)	Leakage current	Earth leakage current	Normal state			
			Single fault condition			
		Touch Current (Enclosure leakage current) (a)	Normal state			
			Single fault condition			
		Touch Current (Enclosure leakage current) (b)	Normal state			
			Single fault condition			
		Patient leakage current I	Normal state	DC		
			Single fault condition	AC		
Patient leakage current III						
Patient measurement current (Measured only when the physio signal display unit is installed)	Normal state	DC		Option		
	Single fault condition	AC		Option		
6-4-6	Safety Check (IEC62353)					
1)	Check of appearance and attached documents					
2)	Check of protective earth resistance value					
3)	Check of leakage current	System leakage current				
		Leakage current in applied part				

MN2-2124 Rev.23

Chapter 6 Performance Check

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