ADDENDUM / ERRATUM

PM.LAB.202-A

SSIP04987-A01

AIXPLORER MultiWave

AixplorerUltimate

This addendum applies to the following Aixplorer® User Guides:

- SSIP01123-12A July 2017
- SSIP01154-12B November 2017
- SSIP01125-12A August 2017
- SSIP01131-12A August 2017
- SSIP01127-12A August 2017
- SSIP01129-12A August 2017

This addendum applies to the following Aixplorer® Ultimate User Guides:

- SSIP03819-1A July 2017
- SSIP03718-1B November 2017
- SSIP03820-1A August 2017
- SSIP03821-1A August 2017
- SSIP03822-1A August 2017
- SSIP03823-1A August 2017

Maximal Temperature Data

The table below provides the maximal temperature increase that may be reached for each transducer.

Transducer Name	Maximal temperature	Test Method
SL15-4	42°C	Still air
SL18-5	42°C	Still air
SC6-1	43°C	Still air
XC6-1	47.5°C	Still air
SE12-3	Max increase = 4.84°C	Simulated use
SEV12-3	Max increase = 4.95°C	Simulated use
SEV12-3 GenII	Max increase = 4.58°C	Simulated use
SLV16-5	32.5°C	Still air
SL10-2	49.5°C	Still air
SMC12-3	45°C	Still air
XP5-1	47.5°C	Still air
SLH20-6	40.1°C	Still air

Acoustic Output Detailed Tables

For each transducer/mode combination in the table above which is checked, a detailed acoustic output table has been provided on the following pages.

The probes for which TIC is marked with (b) are not intended for transcranial or neonatal cephalic uses.

SE12-3

*The following tables include changes for the new SE12-3 GenIV probe, for the other modes the data remain identical.

SWE

Index Label		MI	TIS		TIB		TIC
			At surface	Below surface	At surface	Below surface	
Maximum Index Value		1.8	2.78		3.13		(a) 3.04
Index Component Value			B : 0.98 P : 0.58 F : 1.22	B : 0.98 P : 0.35 F : 1.12	B : 0.92 P : 0.16 F : 1.79	B : 0.98 P : 0.37 F : 1.38	
Associated Acoustic Parameters	pr,a@zMI (Mpa)	B : 2.8 P : 3.8 F : 3.3					
	W0 (mW)		B : 65.02 P : 29.72 F : 94.46		B : 65.02 P : 5.14 F : 94.46		B : 23.59 P : 29.72 F : 94.46
	W1x1 (mW)		B : 49.43 P : 29.72 F : 58.54		B : 49.43 P : 5.14 F : 58.54		
	zs (cm)			B : -- P : 2.889 F : 1.974			
	zb (cm)					B : -- P : 0.776 F : 1.974	
	zMI (cm)	B : 1.8 P : 1.7 F : 0.5					
	zpii,a (cm)	B : 1.8 P : 1.7 F : 0.5					
	fawf (MHz)	B : 4.1 P : 4.1 F : 5	B : 4.38 P : 6.71 F : 4.38		B : 4.38 P : 1.6 F : 4.38		B : 4.13 P : 6.71 F : 4.38

Other Information	prr (Hz)	B : 40 P : 0.7 F : 252					
	srr (Hz)	B : 40 P : 0.7 F : 1					
	npps	B : 1 P : 1 F : 252					
	Ipa,a@zpii,a (W/cm2)	B : 388.7 P : 201.3 F : 300.1					
	Ispta,a@zpii,a (mW/cm2)	B : 25.2 P : 181.1 F : 79					
	Ispta@zpii (mW/cm2)	B : 44.2 P : 311.4 F : 68					
	pr@zpii (Mpa)	B : 3.7 P : 4.8 F : 2.6					

Operating control Conditions	Condition 1	MI			
	Condition 2		TIS		
	Condition 3			TIB	
	Condition 4				TIC

(a) This probe is not intended for transcranial or neonatal cephalic uses

P: Push component; F: Flat component; B: B component

Condition 1 :
B : GenOB , B mode Harmonic Focal zone 14 mm , GEN , Acoustic Power 0 Db
P : General, SWE box position 10 mm, Acoustic power 0 dB
F : GYN, Acoustic power 0 dB

Condition 2 :
B : GenOB , B mode Harmonic Focal zone 80 mm , RES , Acoustic Power 0 dB
P : General, SWE box position 30 mm, Acoustic Power 0 dB
F : GYN, Acoustic power 0 dB

Condition 3 :
B : GenOB , B mode Harmonic Focal zone 80 mm , RES , Acoustic Power 0 dB
P : General, SWE box position 15 mm, Acoustic Power 0 dB
F : GYN, Acoustic power 0 dB

Condition 4 :
B : GenOB , B mode Harmonic Focal zone 14 mm , GEN , Acoustic Power 0 dB
P : General, SWE box position 30 mm, Acoustic Power 0 dB
F : GYN, Acoustic power 0 dB

PW

Index Label		MI	TIS		TIB		TIC
			At surface	Below surface	At surface	Below surface	
Maximum Index Value		**1.3**	**4.38**		**4.80**		**(a) 4.80**
Index Component Value			4.38	3.10	4.80	3.93	
Associated Acoustic Parameters	pr,a@zMI (Mpa)	2.8					
	W0 (mW)		198.78		61.37		61.37
	W1x1 (mW)		198.78		61.37		
	zs (cm)			1.183			
	zb (cm)					0.48	
	zMI (cm)	2.2					
	zpii,a (cm)	2.2					
	fawf (MHz)	4.5	4.50		4.50		4.50
Other Information	prr (Hz)	2396					
	srr (Hz)	2396					
	npps	1					
	Ipa,a@zpii,a (W/cm2)	252.4					
	Ispta,a@zpii,a (mW/cm2)	325.9					
	Ispta@zpii (mW/cm2)	665.5					
	pr@zpii (Mpa)	3.8					

Operating control Conditions				
	Condition 1	MI		
	Condition 2		TIS	
	Condition 3			TIB	TIC

(a) This probe is not intended for transcranial or neonatal cephalic uses

Condition 1 : General ; Focal position 50 mm ; Sample volume 1 mm; scale 6 cm/s ; Acoustic Power 0 dB

Condition 2 : General ; Focal position 60 mm ; Sample volume 20 mm ; Scale 6 cm/s ; Acoustic Power 0 dB

Condition 3 : General ; Focal position 7 mm ; Scale volume 1 mm, Scale 6 cm/s ; Acoustic Power 0 dB

SEV12-3 GenI

COLOR DOPPLER

Index Label		MI	TIS		TIB		TIC
			At surface	Below surface	At surface	Below surface	
Maximum Index Value		1.6	0.64		0.98		(a)
Index Component Value			B : 0.25 C : 0.39	B : 0.25 C : 0.39	B : 0.14 C : 0.84	B : 0.25 C : 0.39	
Associated Acoustic Parameters	pr,a@zMI (Mpa)	B : 3.3 C : 3.2					
	W0 (mW)		B : 8.3 C : 21.1		B : 8.3 C : 21.1		B : 8.3 C : 21.1
	W1x1 (mW)		B : 7.53 C : 21.1		B : 7.53 C : 21.1		
	zs (cm)			--			
	zb (cm)					--	
	zMI (cm)	B : 1.9 C : 0.8					
	zpii,a (cm)	B : 1.9 C : 0.8					
	fawf (MHz)	B : 4.1 C : 3.9	B : 7.13 C : 4		B : 7.13 C : 4		B : 7.13 C : 4
Other Information	prr (Hz)	B : 30.6 C : 112.4					
	srr (Hz)	B : 30.6 C : 10.2					
	npps	B : 1 C : 11					
	Ipa,a@zpii,a (W/cm2)	B : 437 C : 263.4					
	Ispta,a@zpii,a (mW/cm2)	B : 48.3 C : 127.3					
	Ispta@zpii (mW/cm2)	B : 78 C : 162.1					
	pr@zpii (Mpa)	B : 4.2 C : 2.9					
Operating control Conditions	Condition 1	MI					
	Condition 2		TIS		TIB		TIC

(a) This probe is not intended for transcranial or neonatal cephalic uses
C: Color component; B: B component

Condition 1 :	B : GYN ; Harmonic ; Optimization = Res ; focal position 22 mm ; Acoustic Power 0 dB C : GYN ; Optimization = Pen ; Boost = High Definition ; Color box position 14 mm ;
Condition 2 :	B : GYN ; Fundamental ; Optimization = Pen ; focal position 80 mm ; Acoustic Power 0 dB C : GYN preset ; Optimization = Pen ; Boost = Med ; Color box position 40 mm ;

SEV12-3 GenII

COLOR DOPPLER

Index Label		MI	TIS		TIB		TIC
			At surface	Below surface	At surface	Below surface	
Maximum Index Value		1.65	0.64		0.98		(a)
Index Component Value			B : 0.26 C : 0.39	B : 0.26 C : 0.39	B : 0.14 C : 0.84	B : 0.26 C : 0.39	
Associated Acoustic Parameters	pr,a@zMI (Mpa)	B : 3.4 C : 3.2					
	W0 (mW)		B : 8.43 C : 21.1		B : 8.43 C : 21.1		B : 8.43 C : 21.1
	W1x1 (mW)		B : 7.68 C : 21.1		B : 7.68 C : 21.1		
	zs (cm)			--			
	zb (cm)					--	
	zMI (cm)	B : 2.5 C : 0.8					
	zpii,a (cm)	B : 2.5 C : 0.8					
	fawf (MHz)	B : 4.3 C : 3.9	B : 7.13 C : 4		B : 7.13 C : 4		B : 7.13 C : 4

Other Information	prr (Hz)	B : 40 C : 112.4					
	srr (Hz)	B : 40 C : 10.2					
	npps	B : 1 C : 11					
	Ipa,a@zpii,a (W/cm2)	B : 424.9 C : 270.1					
	Ispta,a@zpii,a (mW/cm2)	B : 26.2 C : 130.7					
	Ispta@zpii (mW/cm2)	B : 51.5 C : 164.5					
	pr@zpii (Mpa)	B : 4.6 C : 3					
Operating control Conditions	Condition 1	MI					
	Condition 2			TIS		TIB	TIC

(a) This probe is not intended for transcranial or neonatal cephalic uses
C: Color component; B: B component

Condition 1 :
B : GYN preset ; Harmonic ; Optimization = RES ; focal position 30 mm ; Acoustic Power 0 dB
C : General preset ; Optimization = Pen ; Boost = Med ; Color box position 14 mm ;

Condition 2 :
B : GYN preset ; Fundamental ; Optimization = GEN ; focal position 80 mm ; Acoustic Power 0 dB
C : General preset ; Optimization = Pen ; Boost = Med ; Color box position 40 mm ;