



P&M Medical
Pre-Owned Medical Equipment

System Evaluation Philips Multiva 1.5T 16ch



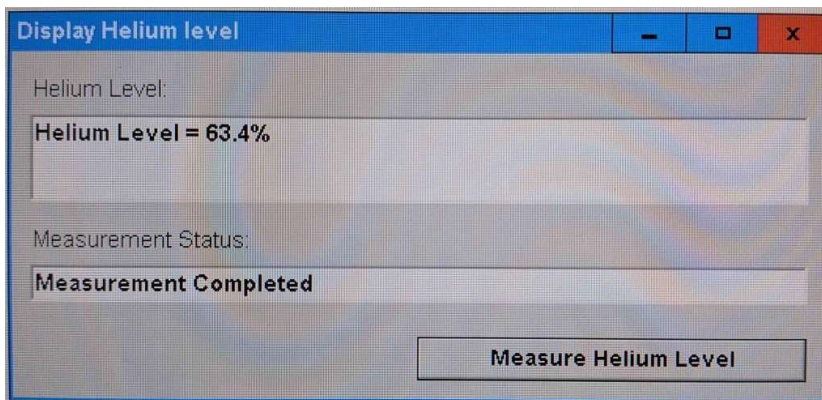
Performed by Stefan Hellwig on behalf of PM Medical



P&M Medical
Pre-Owned Medical Equipment

System Specifications

- Philips Multiva 1.5T
- System serial number: 80507
- System Year Of Manufacture: 2015
- Application Software Release 5.7.1.5
- Nova High Performance Gradients with Copley 781 Gradient Amplifiers
- 16 RF Channels
- F2000 ZBO Magnet "ZEBRA", 4k
- Sumitomo F-50HC Helium Compressor
- Water Cooled Gradient Coil
- Helium Level: 63.4% (on day of inspection; ZBO consumption the past year)



Magnetic Resonance Equipment

Model: Multiva 1.5T

SN 80507

CE 0123

Input: 400 V, 3N~, 50Hz, 60KVA



Philips Healthcare (Suzhou) Co., Ltd.

No. 258, ZhongYuan Road, Suzhou Industrial Park, 215024

Suzhou, Jiangsu Province, PEOPLE'S REPUBLIC OF CHINA

Factory: Philips Medical Systems Nederland BV



Veenpluis4-6, 5684 PC Best, The Netherlands

Date 2016 - 06 Made In Netherlands

Installed Version Information

Application Software *updated 15-Mar-2026 7:07:03 PM*

Release 5.7.1.5

Hardware Configuration

RF Amplifier Type	S35_64
MN RF Amplifier Type	NONE
B1 Field System	HIGH
Auxiliary Connector	NOT AVAILA...
Gradient Coil Type	Watercooled5
Gradient Switch Box Type	NONE
Gradient Amplifier Type	781
Gradient Interface Type	IGCIPCI
Bulk Board Type	CBH2
Frontend Interface	CFINT
1HiRFReceivers	NO
Magnet Cover Type	MultivaOmniva
Magnet Type	F2000_ZBO
Magnet RMMU Type	MEU
Magnet Display	NONE
B0 Homogeneity Booster Type	NONE
Magnet Serial Number	VA_150_0017

Shim System Type	Metal rail
High Order Shim Power Supply	NONE
Acquisition System	CDAS
Docking Unit Type	NOT AVAILA...
Patient Support System	MT
Patient Interface Type	wBTU
ECG Module	Fiber optic 4 L...
PPU Support	BASIC
Respiratory Option	BASIC
Headset	MIC
Music Routing	Headset and...
Number of 1H receive (RX) Channels	16
Number of MN receive (RX) Channels	0
Max MN Synergy Channels	0
Number of 1H transmit (TX) Channels	1
Miscellaneous Box	AIBo
Bluetooth	DISABLED

SLD Type	NONE
Table Top Extender Type	BASIC
Exam Room System Control Unit	SCU_3
RT Positioning System	NONE
Das Cabinet	DACC
Coolers Cabinet	LCC2B
Fan Type	Other
Audio Module	AM3 With E-S...
Power Supply Unit	NONE
Number of MN transmitters	0
Vital Eye	NOT AVAILA...
Body Phantom Type	400 MM

"ZEBRA"-magnet, Zero Boil Off, 4k

Magnet serial number starts with *V* equals Zebra magnet

Status of the System

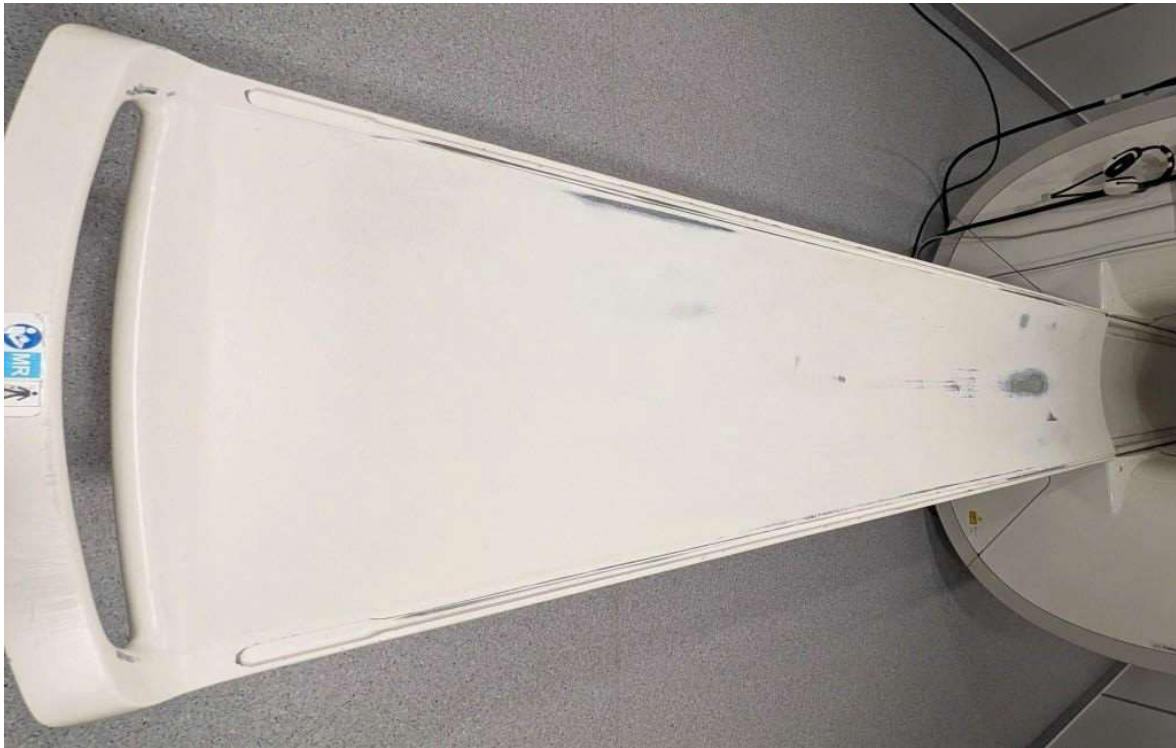
The status of the system is good, it looked well maintained, very clean and did only show typical signs of usage.

The system is scanning patients on a daily basis and there were no problems at all with the system during inspection. The image quality of the phantom scans I have done, was good.

Scratches on the magnet covers

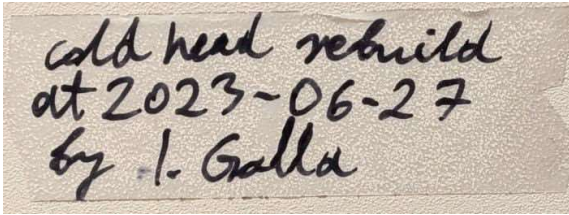


Scratches on the table top



Magnet Refrigeration System

There was a sticker on the helium compressor indicating that the last cold head service has been done on 27. June 2023.



As the following excerpt from the magnet log shows, the helium boil off is 0% (calculated for the shown period of 12 month).

Date	Hr	LHe [%]
2025-03-16	03:10:00	63.6
2025-03-17	03:10:00	63.6
2025-03-18	03:10:00	63.6
2025-03-19	03:10:00	63.6
2025-09-16	03:09:59	63.6
2025-09-17	03:10:06	63.3
2025-09-18	03:09:59	63.1
2025-09-19	03:09:59	63.6
2026-03-13	07:06:41	63.6
2026-03-14	03:10:01	63.4
2026-03-15	03:10:00	63.6
2026-03-16	18:15:24	63.4

Enabled Software Options

System Reference Number:	80507
Lock type	20171
Optionswitch	Expiration Date
Basic SW	31-DEC-9999
2D-VCG	31-DEC-9999
16 RF channels	31-DEC-9999
2K imaging	31-DEC-9999
3D MSK VIEW	31-DEC-9999
Spectro 3D	31-DEC-9999
Advanced EPI	31-DEC-9999
GraSE	31-DEC-9999
3D Brain VIEW	31-DEC-9999
Spectro SENSE	31-DEC-9999
High SENSE factors	31-DEC-9999
Extended FOV	31-DEC-9999
Keyhole	31-DEC-9999
DWI	31-DEC-9999
DTI	31-DEC-9999
Phase navigators	31-DEC-9999
TE>TR	31-DEC-9999
Thrive	31-DEC-9999
Q-flow	31-DEC-9999
Contrast enh perf.	31-DEC-9999

Moving bed ima.	31-DEC-9999
Adv. moving bed ima.	31-DEC-9999
Arterial spin label.	31-DEC-9999
Adv peripheral angio	31-DEC-9999
Whole body	31-DEC-9999
High end recon	31-DEC-9999
Black blood prepulse	31-DEC-9999
Body Resp navigators	31-DEC-9999
MSMP	31-DEC-9999
Multivane	31-DEC-9999
Cardiac triggered IR	31-DEC-9999
Retrospective	31-DEC-9999
Prosp. motion corr.	31-DEC-9999
Spectro	31-DEC-9999
T1 Perfusion	31-DEC-9999
DFT	31-DEC-9999
SR-mid	31-DEC-9999
Diffusion calc.	31-DEC-9999
Perfusion calc.	31-DEC-9999
Q-flow analysis	31-DEC-9999
mDIXON	31-DEC-9999
SR-max	31-DEC-9999
SWIp	31-DEC-9999
pCASL	31-DEC-9999

Routine UI	31-DEC-9999
XML/REC data export	31-DEC-9999
MobiView	31-DEC-9999
AutoVoice	31-DEC-9999
Split Exam	31-DEC-9999
TSE Optimized Refocusing Control	31-DEC-9999
Contrast Cards	31-DEC-9999

Enabled Options**# ENABLED COMMERCIAL OPTIONS:**

# COM_OPT	DESCRIPTION	EXP_DATE
# 16CHRF	16 CHANNEL	Permanent
#	including:	
#	Not relevant for SmartPath to dStream systems.	
# NMRF100	2K IMAGING	Permanent
# NMRZ480	ASL NEURO SPECIALIST	Permanent
# NMRF064	AUTOVOICE	Permanent
# CONTRCARDS	Contrast Cards	Permanent
# NMRB588	DVD-PC	Permanent
# NMRF075	FIBERTRAK SPECIALIST	Permanent
# SR-MAX	HIGH PERFORMANCE GRADIENTS	Permanent #
NMRF104	MDIXON XD FFE SPECIALIST	Permanent
# NMRB552	MR PROCESS OPTION	Permanent
# NMRZ233	R5.7 based order	Permanent
# NMRZ633	RECON XL	Permanent
# NMRF026	SCANTOOLS PRO	Permanent
# NMRF077	SPECTROSCOPY SPECIALIST	Permanent
# NMRZ685	STATIONARY SYSTEM	Permanent
# NMRF070	SWI SPECIALIST	Permanent
# NMRF268	Upgrade to latest sw version	Permanent
# NMRF106	WHOLE BODY SPECIALIST	Permanent

#-----

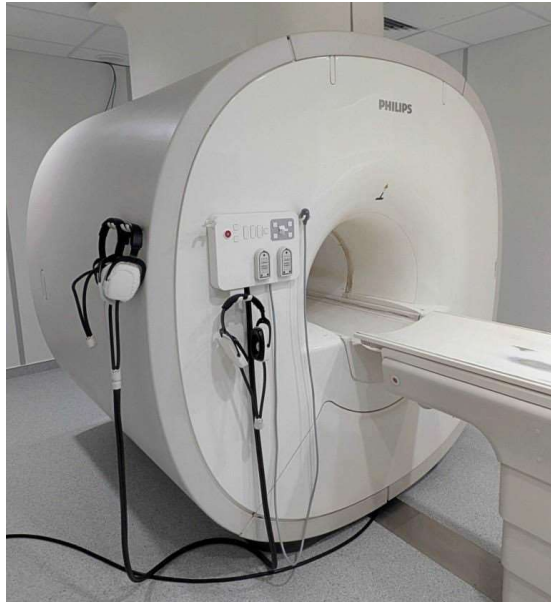
ENABLED SOFTWARE OPTIONS:

# CODE_NUMBER	DESCRIPTION	EXP_DATE
# 989603040645	SW Key 45 PROSP. MOTION CORR.	31-Dec-9999
# 989603040691	SW Key 91 MULTI STATION VIEW	31-Dec-9999
# 989603040623	SW Key 23 DTI	31-Dec-9999
# 989603040637	SW Key 37 WHOLE BODY	31-Dec-9999
# 989603040656	SW Key 56 DIFFUSION CALC.	31-Dec-9999
# 989603040608	SW Key 8 2K IMAGING	31-Dec-9999
# 989603040699	SW Key 99 AUTOVOICE	31-Dec-9999
# 989603040663	SW Key 63 SR-MAX	31-Dec-9999
# 989603040634	SW Key 34 ADV. MOVING BED IMA.	31-Dec-9999
# 989603040635	SW Key 35 ARTERIAL SPIN LABEL.	31-Dec-9999
# 989603040640	SW Key 40 BODY RESP NAVIGATORS	31-Dec-9999
# 989603040662	SW Key 62 MDIXON	31-Dec-9999
# 989603040622	SW Key 22 DWI	31-Dec-9999
# 989603040616	SW Key 16 HIGH SENSE FACTORS	31-Dec-9999
# 242280009879	SW License VNC Connect Enterprise 6.1.0	31-Dec-9999
# 989603040685	SW Key 85 XML/REC DATA EXPORT	31-Dec-9999
# 989603040644	SW Key 44 RETROSPECTIVE	31-Dec-9999
# 459800542671	Acronis ABR 11 OEM WS software license	31-Dec-9999
# 989603040657	SW Key 57 PERFUSION CALC.	31-Dec-9999
# 989603040609	SW Key 9 3D MSK VIEW	31-Dec-9999

# 989603040611	SW Key 11 SPECTRO 3D	31-Dec-9999
# 989603019791	LIC.REAL VNC V4.2.6	31-Dec-9999
# 989603040615	SW Key 15 SPECTRO SENSE	31-Dec-9999
# 989603040650	SW Key 50 SPECTRO	31-Dec-9999
# 989603040719	SW Key 119 TSE OPTIMIZED REFOCUSING CONT	31-Dec-9999
# 989603040607	SW Key 7 16 RF CHANNELS	31-Dec-9999
# 989603040626	SW Key 26 TE>TR	31-Dec-9999
# 989603040677	SW Key 77 SWIP	31-Dec-9999
# 989603040642	SW Key 42 MULTIVANE	31-Dec-9999
# 989603040621	SW Key 21 KEYHOLE	31-Dec-9999
# 989603040638	SW Key 38 HIGH END RECON	31-Dec-9999
# 989603040629	SW Key 29 Q-FLOW	31-Dec-9999
# 989603040600	SW Key 0 BASIC SW	31-Dec-9999
# 989603040678	SW Key 78 PCASL	31-Dec-9999
# 989603040613	SW Key 13 GRASE	31-Dec-9999
# 989603040653	SW Key 53 DFT	31-Dec-9999
# 989603040739	SW Key 139 ContrastCards	31-Dec-9999
# 989603040639	SW Key 39 BLACK BLOOD PREPULSE	31-Dec-9999
# 989603040628	SW Key 28 THRIVE	31-Dec-9999
# 989603040679	SW Key 79 ROUTINE UI	31-Dec-9999
# 452213308911	IDL off-the-shelf software	31-Dec-9999
# 989603040714	SW Key 114 SPLIT EXAM	31-Dec-9999
# 989603040659	SW Key 59 Q-FLOW ANALYSIS	31-Dec-9999
# 989603040652	SW Key 52 T1 PERFUSION	31-Dec-9999
# 989603040636	SW Key 36 ADV PERIPHERAL ANGIO	31-Dec-9999
# 989603019801	LIC.MCAFFEE VIRUSSCAN V8.5I EE	31-Dec-9999
# 989603040633	SW Key 33 MOVING BED IMA.	31-Dec-9999
# 989603040612	SW Key 12 ADVANCED EPI	31-Dec-9999
# 989603040624	SW Key 24 PHASE NAVIGATORS	31-Dec-9999
# 989603040614	Sw Key 14 3D BRAIN VIEW	31-Dec-9999
# 989603040655	SW Key 55 SR-MID	31-Dec-9999
# 300007859261	McAfee Application Control	31-Dec-9999
# 989603040643	SW Key 43 CARDIAC TRIGGERED IR	31-Dec-9999
# 989603040619	SW Key 19 EXTENDED FOV	31-Dec-9999
# 989603019851	LIC.NERO OEM SUITE V6	31-Dec-9999
# 989603019811	LIC.MACROMEDIA FLASH PLAYER10.1	31-Dec-9999
# 989603040631	SW Key 31 CONTRAST ENH. PERF.	31-Dec-9999
# 989603040605	SW Key 5 2D-VCG	31-Dec-9999
# 98960301983	LIC.VXWORKS V5	31-Dec-9999
# 989603040641	SW Key 41 MSMP	31-Dec-9999
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System Components

Scan Room Components



Scan Room Components



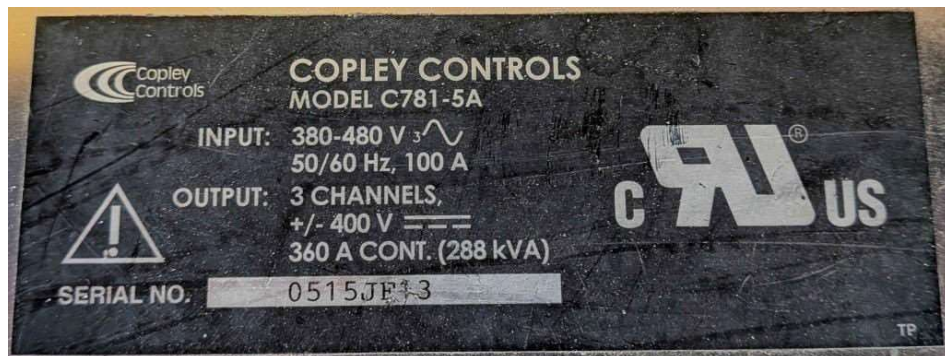
Scan Room Components



Scan Room Components



Gradient Cabinet



Gradient Cabinet



DAC Cabinet

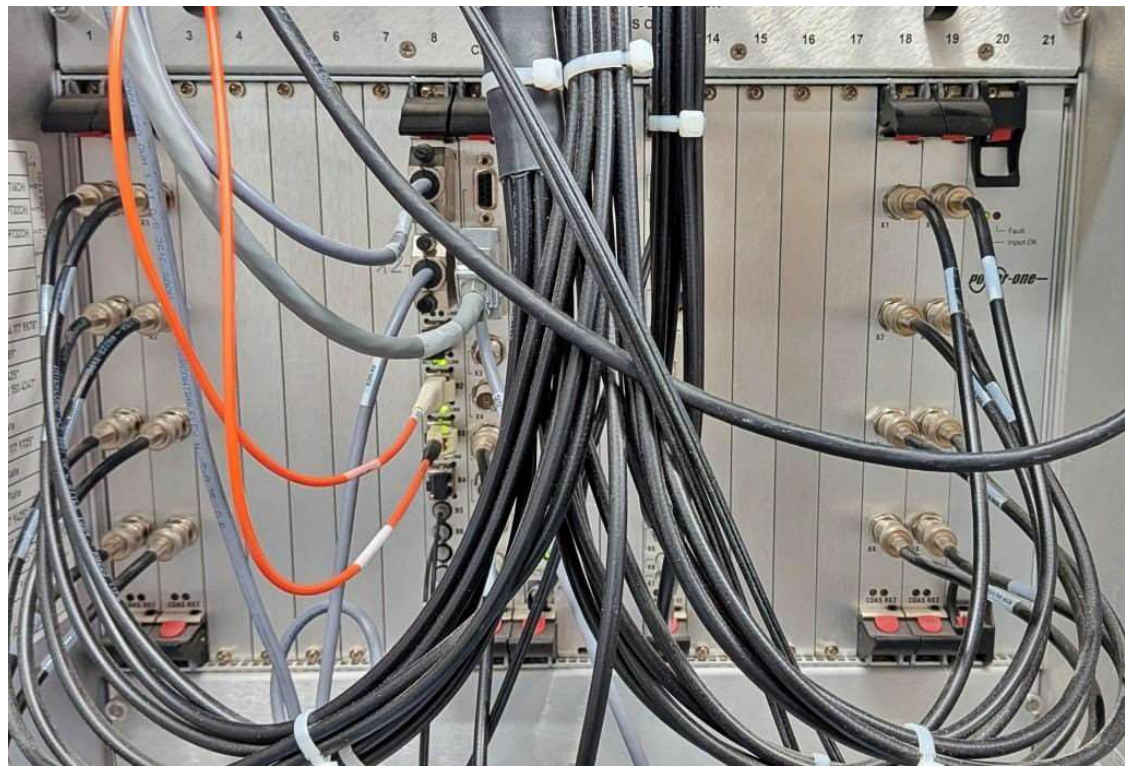
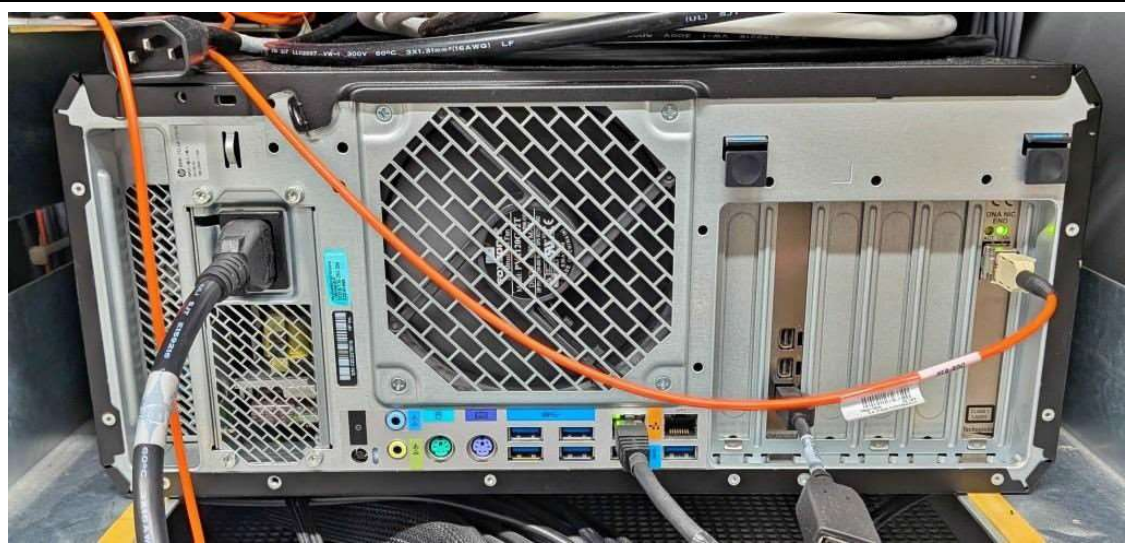


Model 9896 030 26332
REF 9896 030 26332
SN 000107
ON: 301037916



MANUFACTURED
APRIL 2015

DAC Cabinet



DAC Cabinet



PHILIPS

Model: 1.5T RF amplifier

Identifier: 53-S30-64(w)

Label NC: 4598 006 64611

Model REF 4598-003-67044

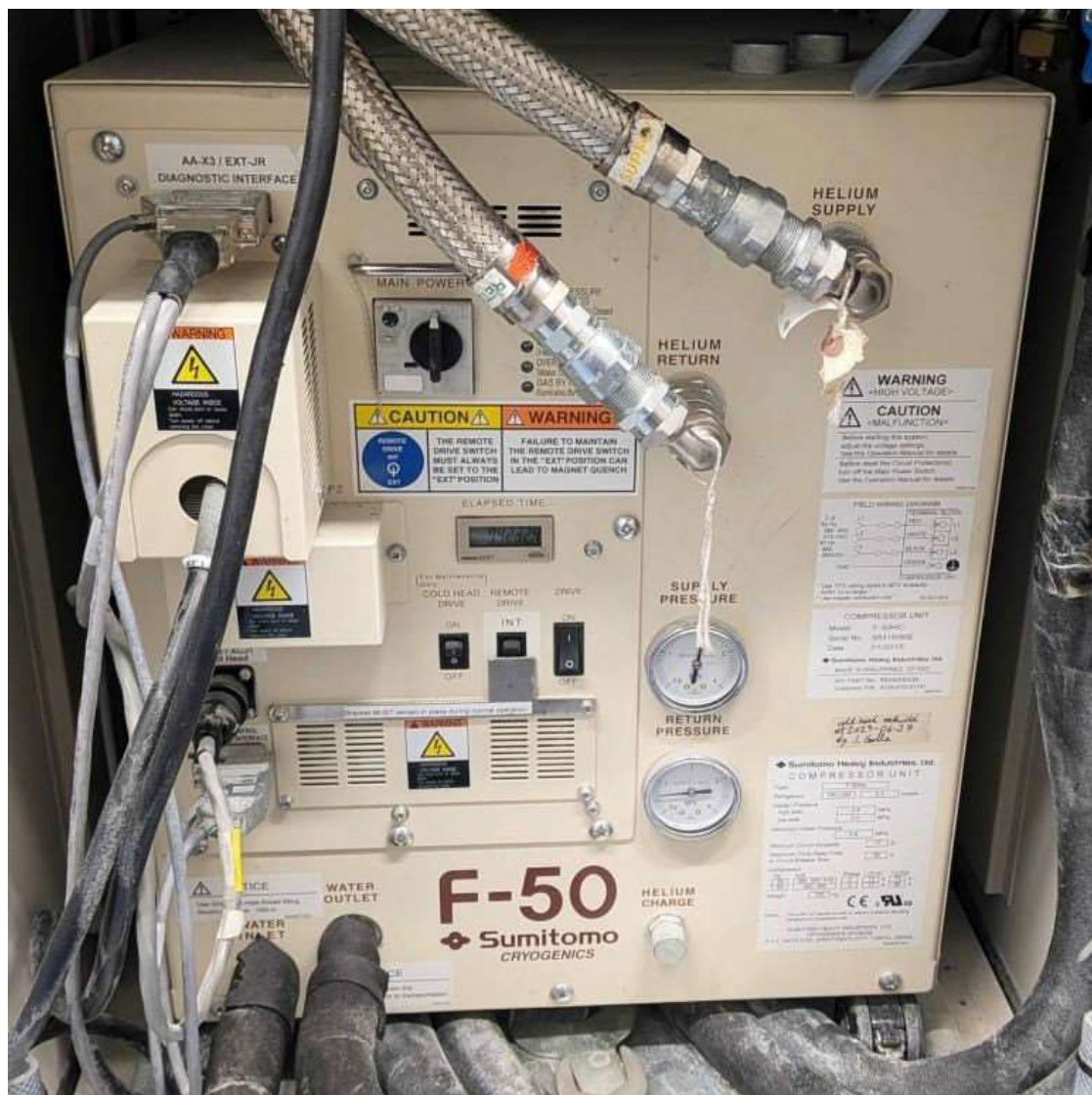
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LCC



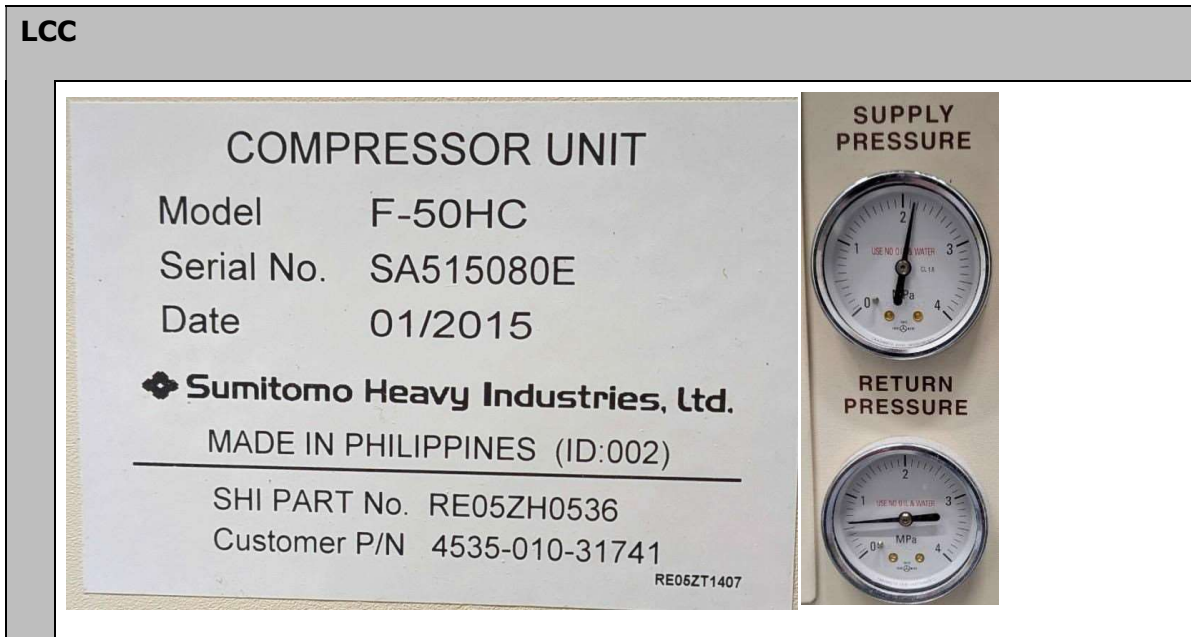
LCC



He-Compressor
 Sumitomo F-50HC
 DOM: 01.2015
 He-pressure: 22 bar
 Run hrs: 9423.4



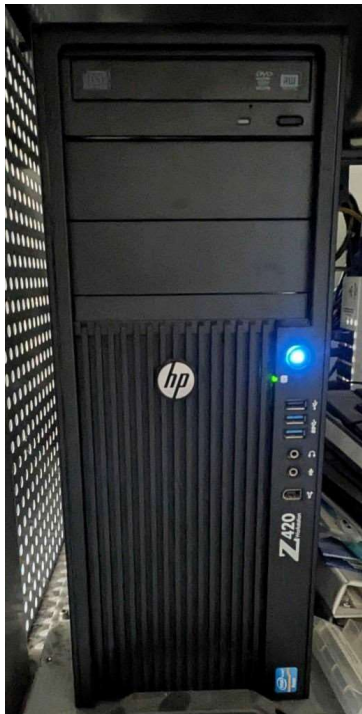
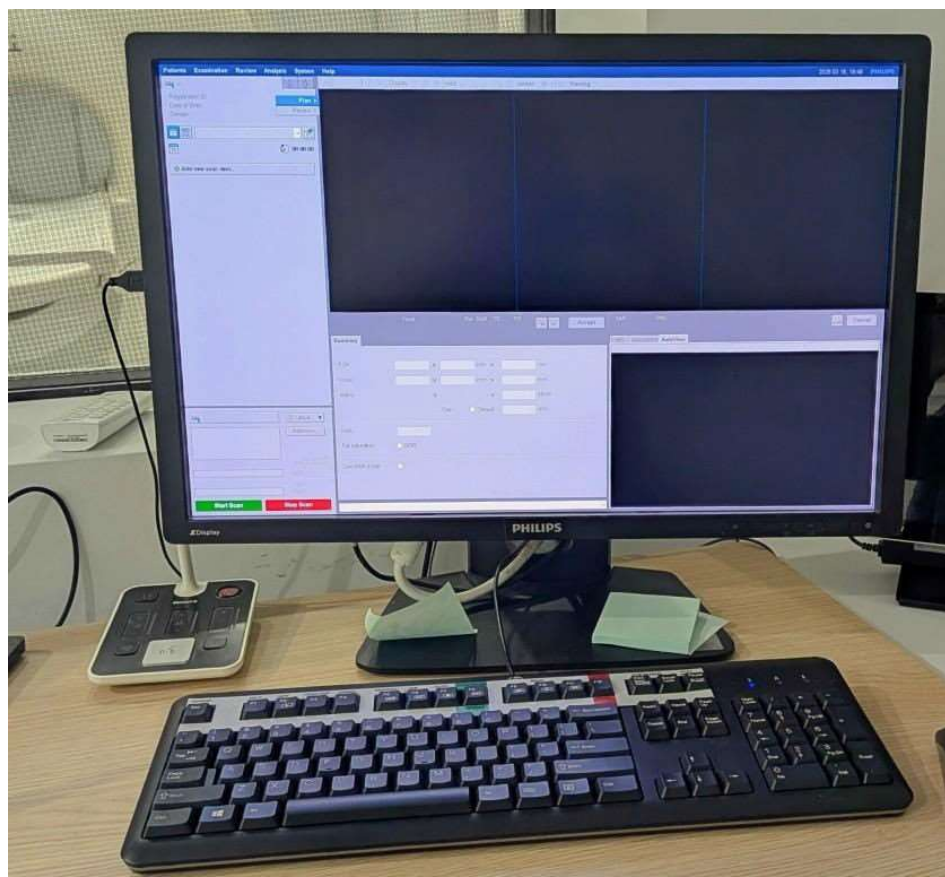
LCC



Power Distribution



Console Parts



Host, HP Z420



Accessories



Respiratory Cushion



Headset

Alarm Ball



Software

USB Application SW, R5.7.1

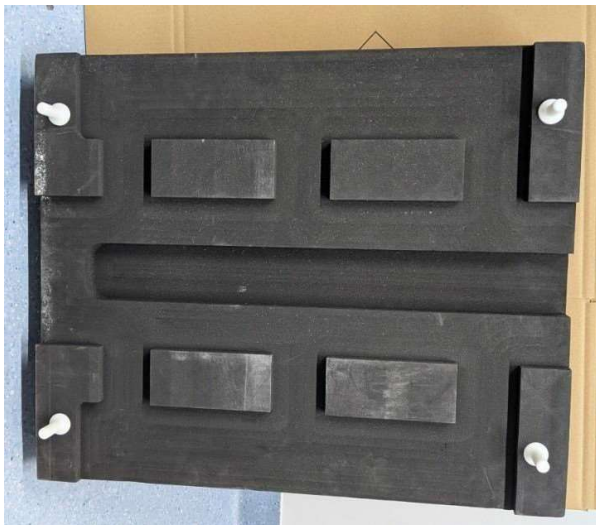
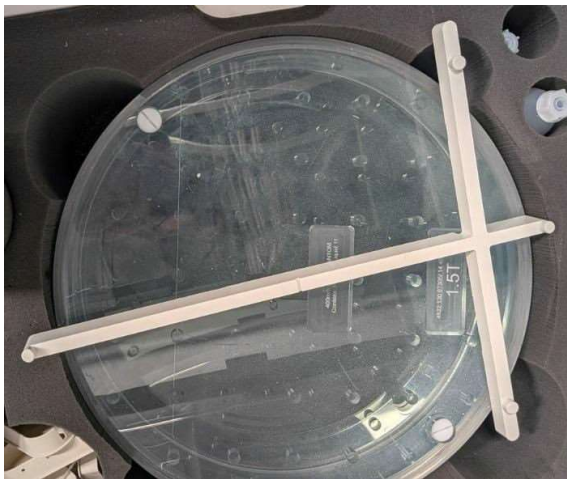


Phantoms and Holders

- Phantom Bottle 5000cc, 1 piece
- Phantom Bottle 3000cc, 1 piece
- Phantom Bottle 2000cc, 1 piece
- Phantom Bottle 250cc, 1 piece
- ECC Phantom
- 200mm Perf. Phantom
- 4000mm Perf. Phantom



Phantoms and Holders



Coils

Coil	Part No	Serial No	DOM	QA
Sense Head 8	4535 300 57611	3089	08.2014	✓
Sense Head 16	4598 006 61762	181	07.2018	✓
Sense Spine 16	4598 006 61751	000291	06.2017	✓
Sense MSK M 8	4535 303 10351	571	04.2017	✓
Sense MSK S 8	4535 302 99361	404	09.2018	✓
Sense Torso 16	4598 006 61742	147	07.2018	✓
Sense Knee 8	4535 30056071	002566	03.2015	✓
Pediatric Head-Spine	4522 150 41161	1134	22.015	

Coils - Sense Head 8



This coil will be kept by the hospital group and is therefore NOT included with the system.

Coils - Sense Head 16



 SENSE Head 16

REF	4598-006-61762	(01) 00884838082830	
SN	500009	(21) 500009	

 Invivo Corporation
3545 SW 47th Avenue
Gainesville, FL 32608-7691
+1 (352) 336-0010 U.S.A

2022-02-12

EC REP
Philips Medical Systems
Nederland B.V.
Veenpluis 6
5684 PC Best
The Netherlands

MADE IN CHINA

    0123  

Coils – Sense Spine 16



  SENSE Spine 16

REF	4598-006-61751	(01) 00884838082823
SN	000243	(21) 000243



 Invivo Corporation
3545 SW 47th Avenue
Gainesville, FL 32608-7691
+1 (352) 336-0010 U.S.A.

2016-12-29

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Nederland B.V.
Veenpluis 6
5654 PC Best
The Netherlands

MADE IN CHINA

 1.5 T





CE 0123





Coils – Sense Knee 8



 SENSE Knee Coil 1.5T/8ch



P/N: 4535 300 56071 S/N: 002566

Made in U.S.A. Date: 03/2015

Manufacturer: Invivo Corporation, Gainesville FL 32608

 www.mba-gbm.com
+44 (0)7710 039721

IPX1     0123  E228100  

UL60601-1

Coils – Sense Torso 16



  SENSE Torso 16

REF	4598-006-61742	(01) 00884838082816	
SN	500104	(21) 500104	

 Invivo Corporation
3545 SW 47th Avenue
Gainesville, FL 32608-7691
+1 (352) 336-0010 U.S.A.

2022-08-19

EC	REP
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Philips Medical Systems
Nederland B.V.
Veenpluis 6
5684 PC Best
The Netherlands

MADE IN CHINA

 1.5 T    0123  

Coils – Sense Pediatric Head-Spine

This coil will be kept by the hospital group
and is therefore NOT included with the system.

Coils – Sense MSK M 8



 		SENSE MSK M 8ch 1.5T	
REF	4535-303-10351	(01)	00884838065390
SN	1539	(21)	1539
			
		Invivo Corporation 3545 SW 4th Avenue Gainesville, FL 32608-7691 USA +1(352) 336-0010 2021-09-04 Made in USA	
		Philips Medical Systems Nederland B.V. Veenpluis 6 5684 PC Best The Netherlands	
			
Conforms to UL Std. 60601-1 IEC Std. 60601-1 Certified to CSA Std. C22.2 No. 601.1			

Coils – Sense MSK S 8



QA Check

To check the status and the functionality of the system, I did a PIQT with the Sense Head 8 coil and phantom scans with all other coils.

PIQT Sense Head 8

Field Strength	T15		
Gradient Chain	Nova	Gradient Amplifier	781
Gradient Coil	Watercooled5	Gradient Switchbox	NONE
RF Chain	Standard	RF Amplifier	S35_64
Magnet	F2000_ZBO		

Flood Field Uniformity

Patient	PIQT		PIQT		PIQT	
Scan_Name	QA1S:MS,SE		QA2S:MS,FE		QA3B:2D,SE	
Scan_Date	16-03-2026		16-03-2026		16-03-2026	
Scan_Time	19:15		19:19		19:22	
Bw/Pixel	218.84		217.01		218.84	
Trans_Q	193		193		193	
Drive	0.85		0.85		0.85	
RF_Factor	0.99		0.99		0.99	
Rec_Q	0		0		193	
Req_Att	19.07		0		8.25	
Central_freq	63880624		63880624		63880616	
Coil_type	nt		nt		nt	
Actual_12nc	-		-		-	
Original_serial_nr	-		-		-	
Scan_Seq	SE	SE	FFE	SE	SE	SE
Off_cen_dist	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
Image_Type	M	M	M	M	M	M
Slice_No	3	3	2	1	1	1
Echo_No	1	2	1	1	2	3
Dyn_Scan_No	1	1	1	1	1	1
Dist_sel	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
Echo_Time	30	100	15	50	100	150
SNR_Factor	3.5	2.62	2.41	6.49	5.55	4.75
Nema S/N (B)	164.37	120.83	113.83	67.76	58.57	47.29
Nema_Int_Unif	1.79	2.11	2.22	5.83	5.81	6.66
Nema_Art_Level	1.78	2.14	0.13	0.44	1.14	0.69
Meas_Ok	OK	OK	OK	OK	OK	OK
Verify_Ok	-	-	-	-	-	-

Spatial Linearity

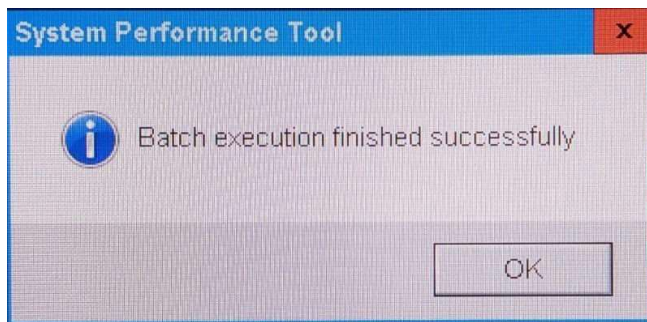
Patient	PIQT
Scan_Name	QA1S:MS,SE
Scan_Date	16-03-2026
Scan_Time	19:15
Bw/Pixel	218.84
Trans_Q	193
Drive	0.85
RF_Factor	0.99
Rec_Q	0
Req_Att	19.07
Central_freq	63880624
Coil_type	nt
Actual_12nc	-
Original_serial_nr	-
Scan_Seq	SE
Off_cen_dist	-22.57
Image_Type	M
Slice_No	2
Echo_No	1
Dyn_Scan_No	1
Dist_sel	-22.57
Echo_Time	30
SNR_Factor	3.5
Meas_Ok	OK
Verify_Ok	-
diff_lin_(2-44)	-0.17
diff_lin_(3-43)	-0.11
diff_lin_(4-42)	-0.03
diff_lin_(7-39)	-0.2
diff_lin_(11-35)	-0.01
diff_lin_(13-33)	-0.17
diff_lin_(19-27)	-0.13
diff_lin_(20-26)	-0.17
nema_perc_dif.	0.2

Slice Profile

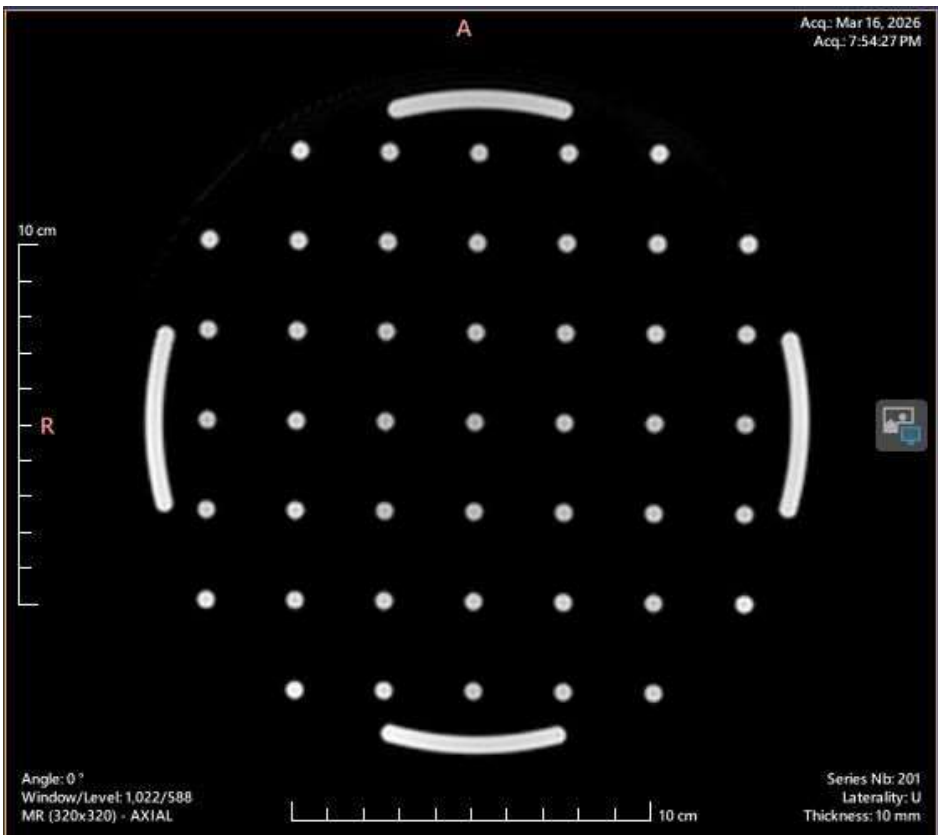
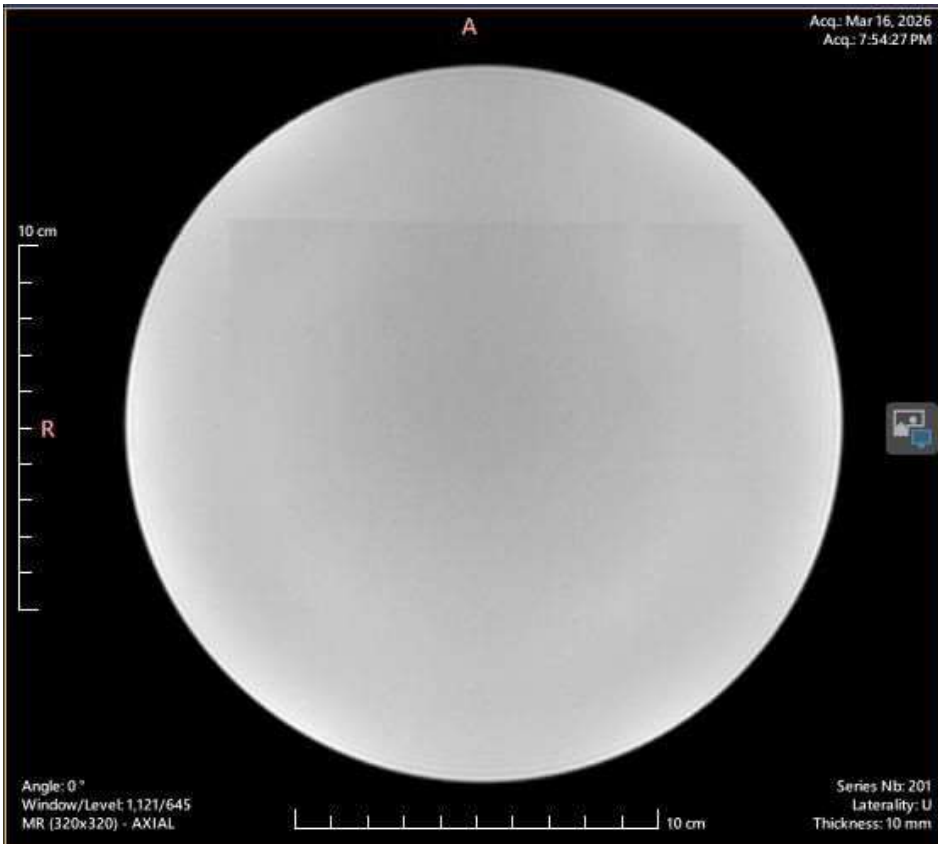
Patient	PIQT		PIQT
Scan_Name	QA1S:MS,SE		QA2S:MS,FE
Scan_Date	16-03-2026		16-03-2026
Scan_Time	19:15		19:19
Bw/Pixel	218.84		217.01
Trans_Q	193		193
Drive	0.85		0.85
RF_Factor	0.99		0.99
Rec_Q	0		0
Req_Att	19.07		0
Central_freq	63880624		63880624
Coil_type	nt		nt
Actual_12nc	-		-
Original_serial_nr	-		-
Scan_Seq	SE	SE	FFE
Off_cen_dist	22.43	22.43	22.43
Image_Type	M	M	M
Slice_No	4	4	3
Echo_No	1	2	1
Dyn_Scan_No	1	1	1
Dist_sel	22.43	22.43	22.43
Echo_Time	30	100	15
SNR_Factor	3.5	2.62	2.41
Meas_Ok	OK	OK	OK
Verify_Ok	-	-	-
Nema_Phantom	RAMP	RAMP	RAMP
Nema_Prof_Type	MODULUS	MODULUS	MODULUS
Nema_Phant_Rot.	0	0	0
Nema_Angle	11.25	11.24	11.3
Nema_Pos_shift	-0.1	-0.1	-0.09
Nema_FWHM	4.92	4.6	4.99
Nema_FWTM	6.65	6.3	7.31
Nema_Slice_int.	4.97	4.63	5.05

Spatial Resolution

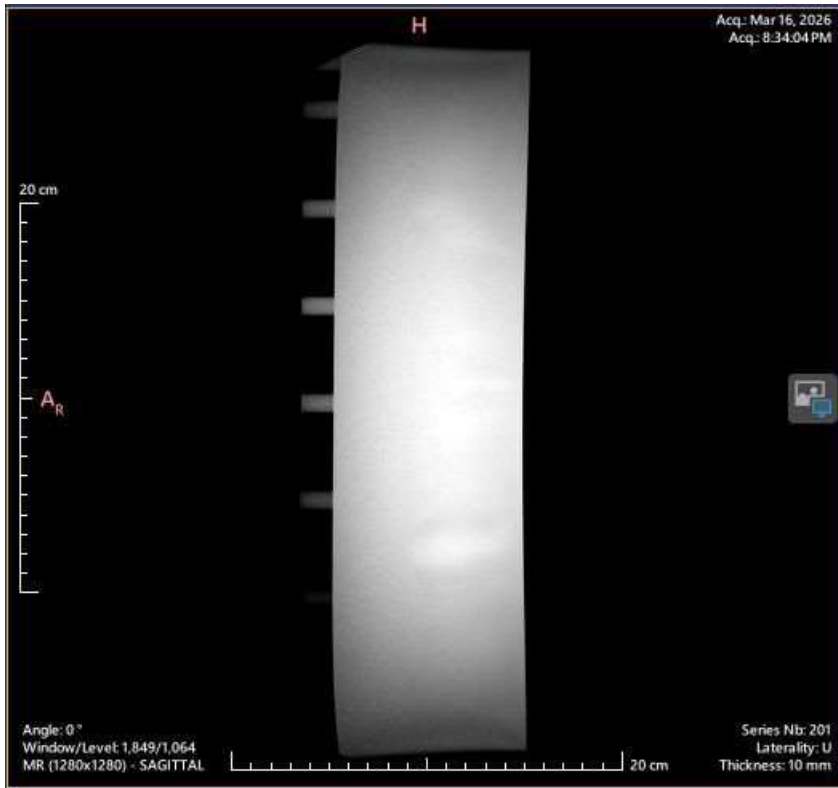
Patient	PIQT	
Scan_Name	QA1S:MS,SE	
Scan_Date	16-03-2026	
Scan_Time	19:15	
Bw/Pixel	218.84	
Trans_Q	193	
Drive	0.85	
RF_Factor	0.99	
Rec_Q	0	
Req_Att	19.07	
Central_freq	63880624	
Coil_type	nt	
Actual_12nc	-	
Original_serial_nr	-	
Scan_Seq	SE	SE
Off_cen_dist	44.93	44.93
Image_Type	M	M
Slice_No	5	5
Echo_No	1	2
Dyn_Scan_No	1	1
Dist_sel	44.93	44.93
Echo_Time	30	100
SNR_Factor	3.5	2.62
Meas_Ok	OK	OK
Verify_Ok	-	-
Nema_Hor_pxl_size	0.99	0.98
Nema_Ver_pxl_size	0.98	0.99



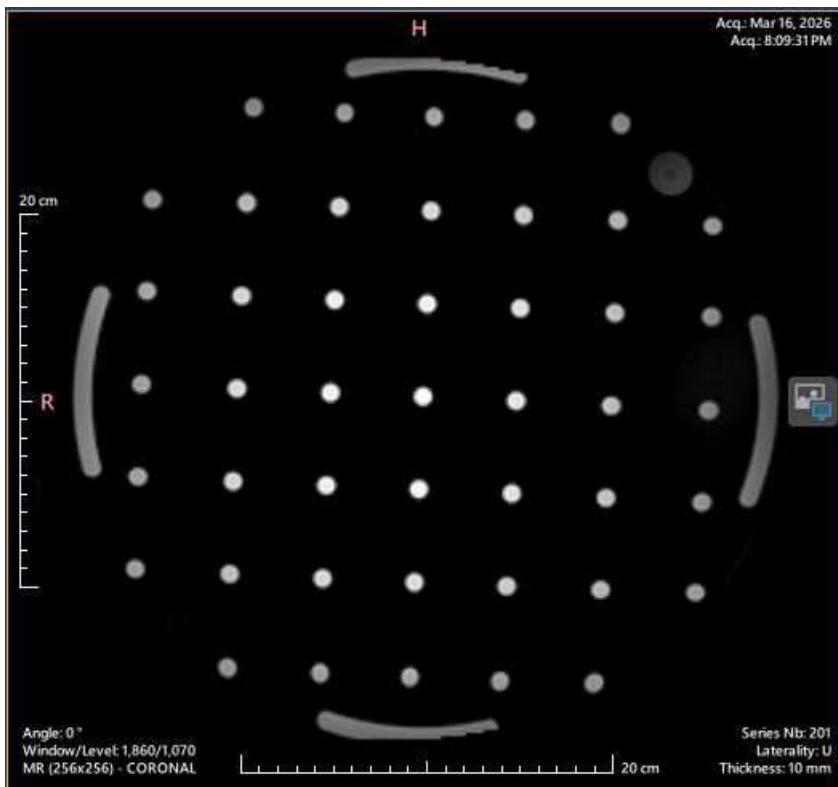
Sense Head 16



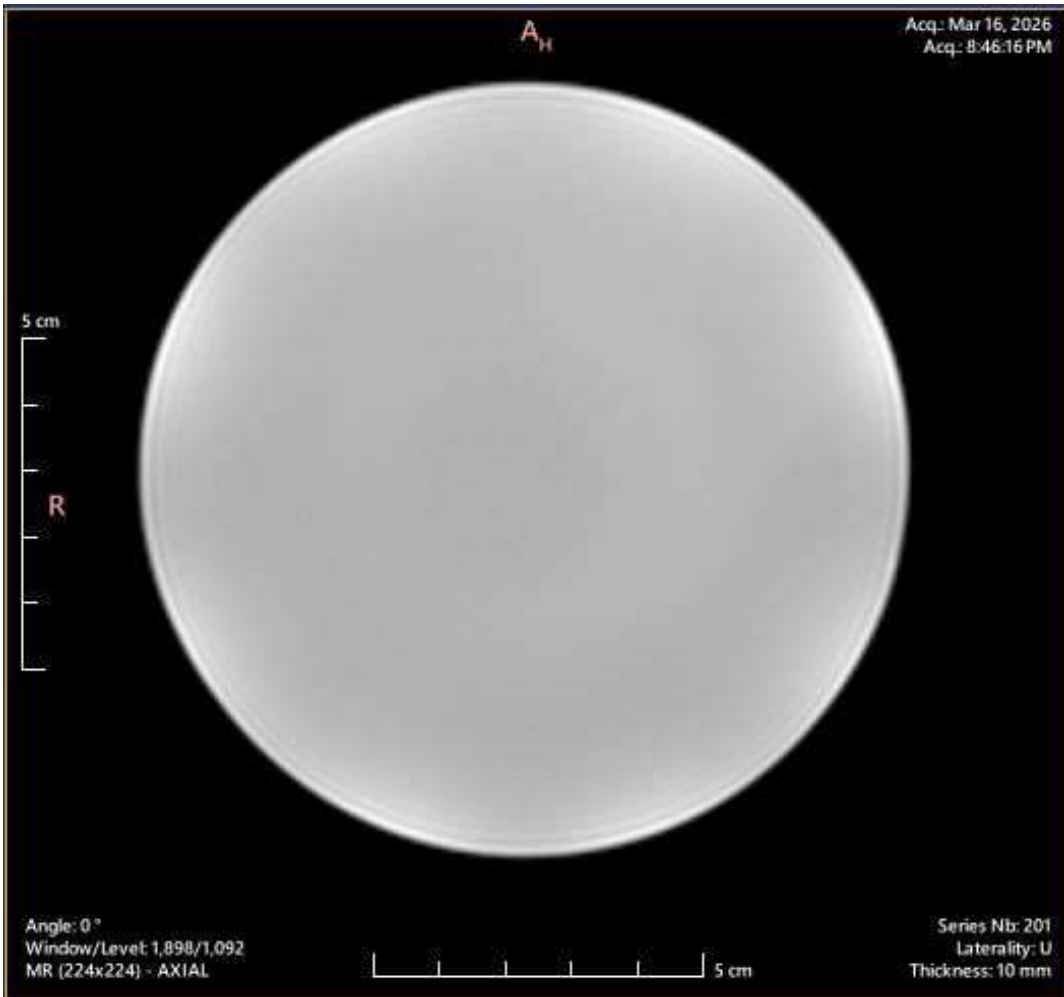
Sense Spine 16 - Lumbar



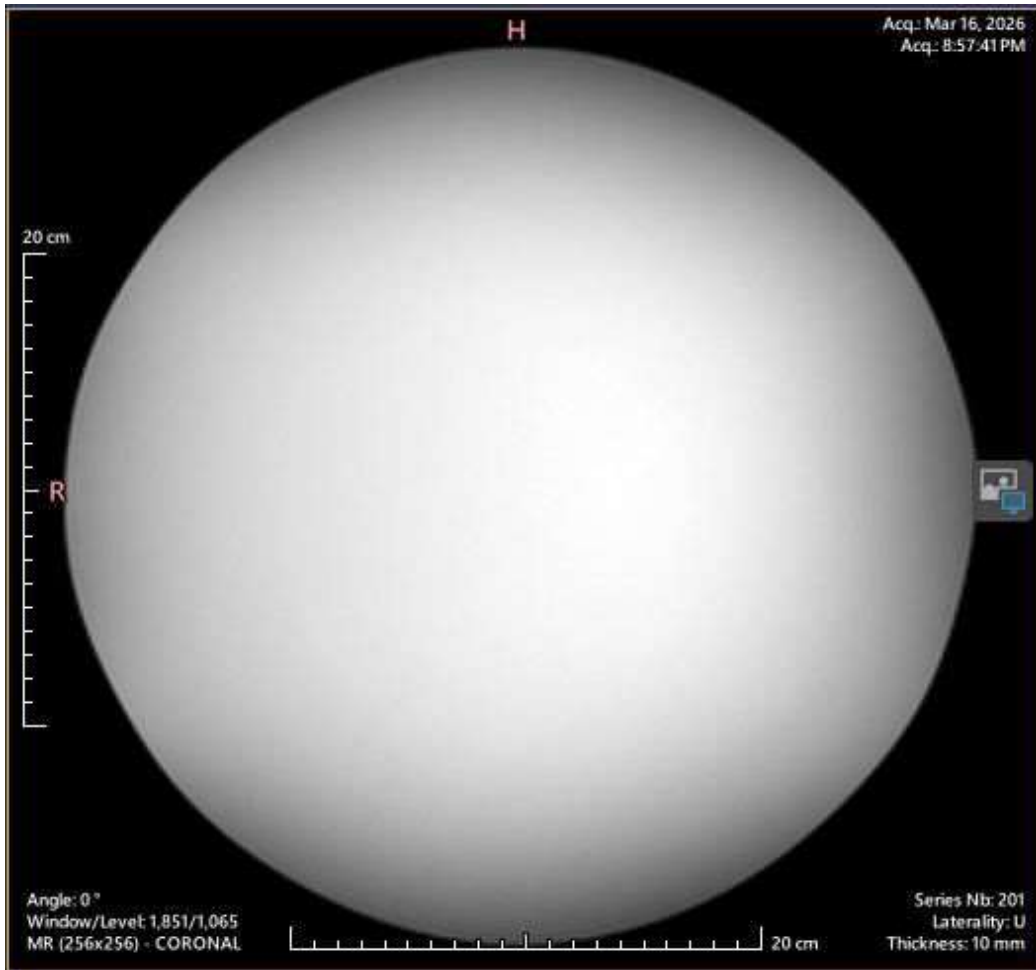
Sense Spine 16 - Cervical



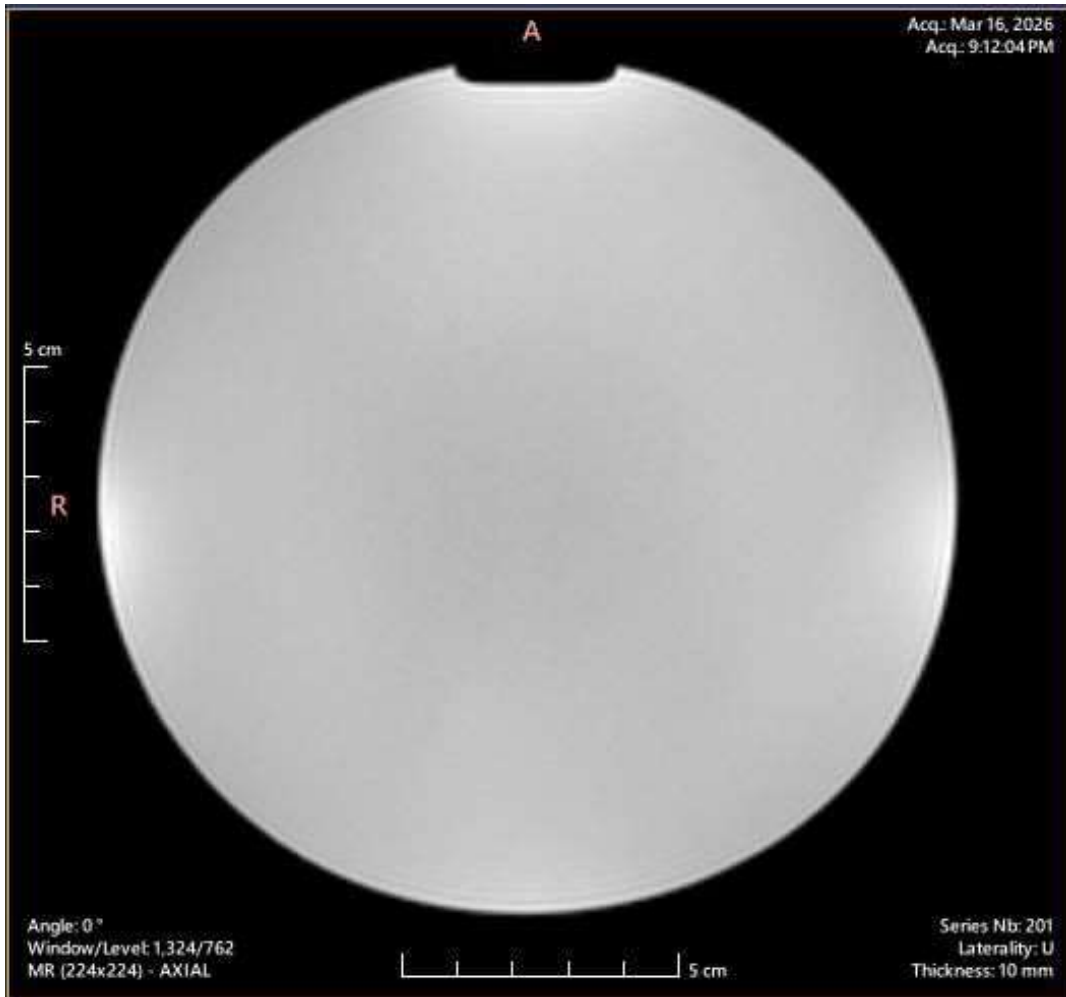
Sense Knee 8



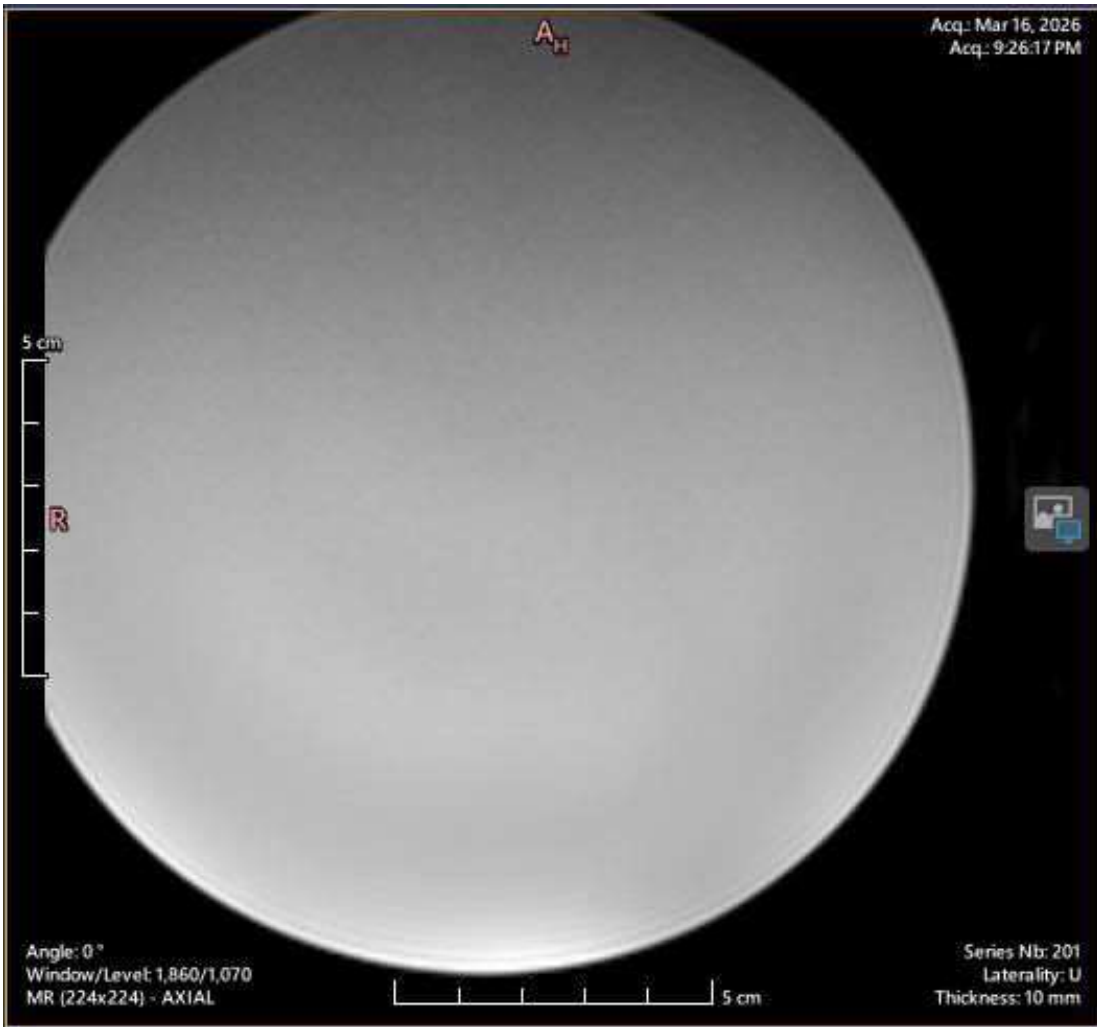
Sense Torso 16



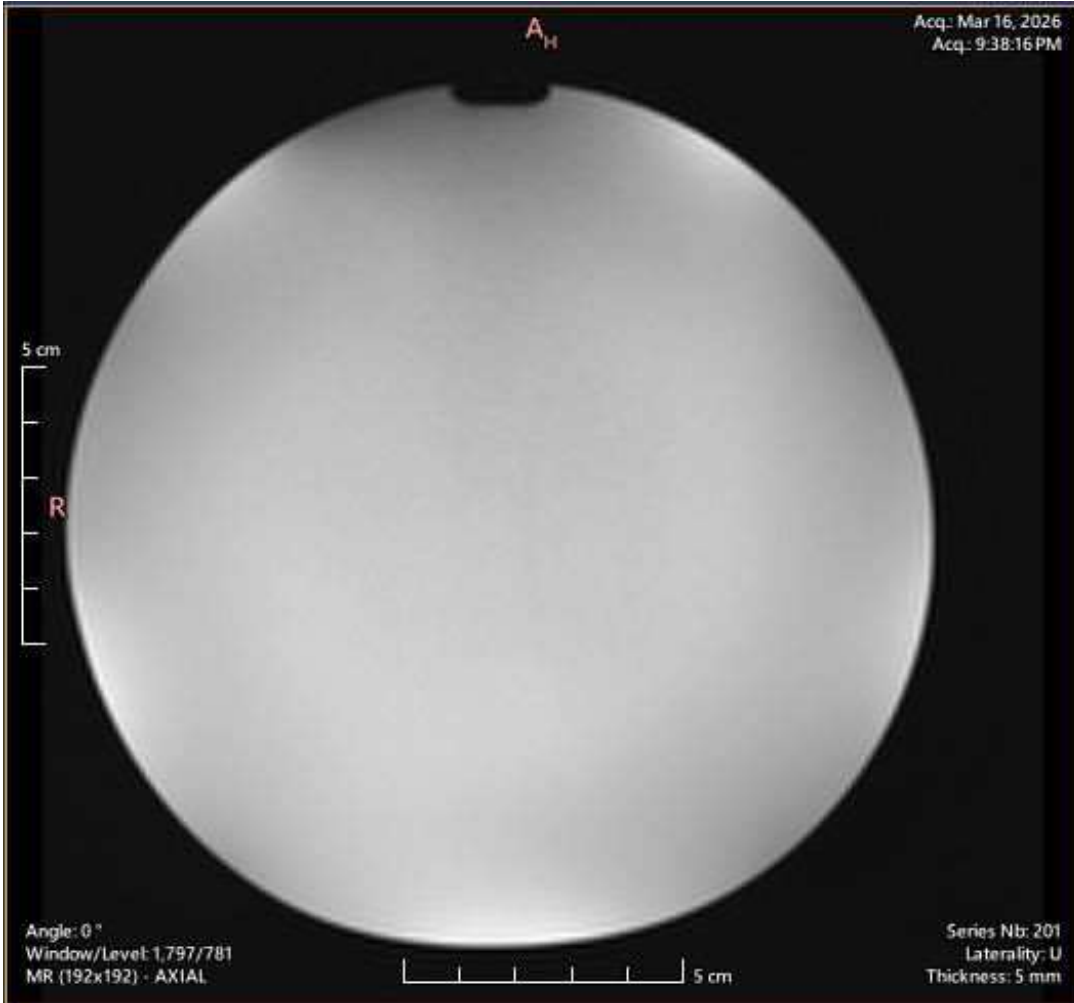
Sense Pediatric Head-Spine



Sense MSK S 8



Sense MSK M 8



Some Patient Images



