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MAGNETOM Terra 7T Collaborations vision

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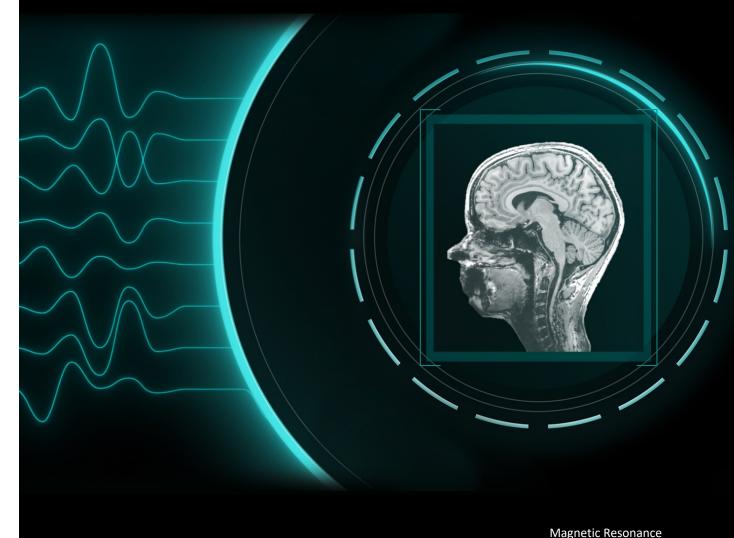
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MAGNETOM Terra Technical specifications at a glance





Magnet & System	
Field strength	7 Tesla
Bore size	60 cm
Magnet length	270 cm
Helium consumption	Zero helium boil-off technology
Shimming	passive and active
Gradient Strength	XR Gradients (80 mT/m @ 200 T/m/s)
RF Technology	Transmit: TimTX-1 (clinical mode), TimTX-8 (research mode ²); Receive: 32, 64
Siting & Installation	
System length	297 cm
System weight (in operation)	<25 tons
Minimum room size ¹	65 m ² (w/o pTX and 3rd order shim option)
Local Coils	
Clinical mode ³	1Tx/32Rx Head Coil, 1Tx/28Rx Knee Coil, ²³ Na 1Tx32Rx Head Coil, ³¹ P/ ¹ H TxRx Flex Loop Coil
Research mode ²	Wider range of coils available

¹⁾ Minimum total space requirement for magnet, electronics, and console room

²⁾ Research mode of MAGNETOM Terra is currently under development. Its future availability cannot be ensured.

^{3) 1}Tx32Rx Head Coil 7T Clinic // 1Tx28Rx Knee Coil 7T Clinic // ²³Na 1Tx32Rx Head 7T // ³¹P/¹H TxRx Flex Loop 7T