

System Overview

Device specifications

Weight patient seat	130 kg / 290 lbs
Total NeuroLF weight	530 kg / 1.170 lbs
Dimension (H × L × W)	170 × 210 × 80 cm 5.6 × 6.9 × 2.6 ft
Cooling	Air cooled
Seat capacity	200 kg / 440 lbs

System Hardware

System Hardware Standard

Scanner diameter	260 mm
Detector ring diameter	271 mm
Axial field of view	163 mm
Detector material	LYSO
Crystal size	3.19 × 3.19 × 10 mm
Crystals per module	1536
SiPMs per module	384
SiPM coverage of crystal arrays	38%
Crystal elements total	12288
SiPMs total	3072

Environmental Requirements

Scanner Room Environment

Temperature range	18 – 26 °C
Temperature should not vary more than	±1.5°C / 2.7°F per hour
Relative air humidity	20 – 70%
Power requirements	110/240V, 1kW
Recommended room size	2.7 × 4 m / 9 × 13 ft

Operator's Room Environment

No constraints on temperature or humidity (just standard computer)	
Recommended room size	2 × 4 m / 7 × 13 ft

System Software

Acquisition Parameters

Coincidence window	3.5 – 5 ns
Energy window	Configurable
Acquisition mode	One time frame
Acquisition start / stop	Time based, coincidence counter, manual
Acquisition types	Patient, phantom, daily routine source, calibration source

Reconstruction Parameters

Imaging matrix	95 × 165 × 165 voxels
Voxel size (mm ³)	1.66 × 1.66 × 1.66 mm ³
Attenuation Correction	CT-template co-registration
Reconstruction Time	Approx. 15 min

NEMA NU-2 2018 Performance

10mm Crystals

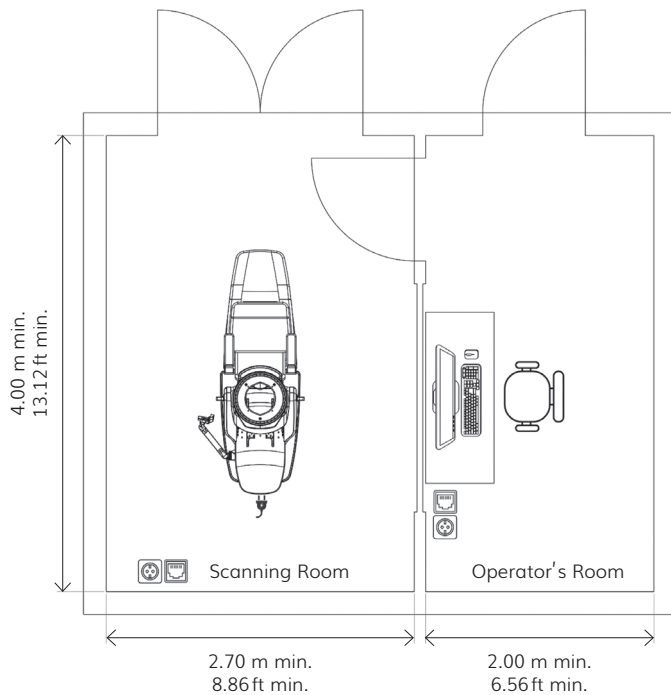
NEMA NU-2 2018 performance are measured with internal tests and shall be considered preliminary.

Spatial resolution at 1cm (average)	2.7 mm
Spatial resolution at 10 cm (average)	3.5 mm
Sensitivity at center of FOV	4.8 cps/kBq / 20 cps/kBq *

* 4.8 cps/kBq is according to NEMA NU-2 2018 standard, the 20 cps/kBq is adjusted to reflect the shorter axial FOV compared to whole-body PET scanners.

NeuroLF® System Preliminary Technical Specifications

Example Room Layout



Note: This layout is for reference purposes only.
The system layout varies by site.

DISCLAIMER

Positrigo AG reserves the right to modify the design and specifications contained herein without prior notice. Please contact your local sales representative for the most current information. Some options and functionality will not be available immediately on product release. Where certain options and functionality are not available on delivery, these will be delivered as part of subsequent software or hardware releases. Please confirm availability and timing with your representative.

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The NeuroLF System is commercially available in the European Union and in the USA.

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