CIDELEC

CID-Lxa

HypnoLighT

Reliable
Innovative
Portable

MADE IN FRANCE

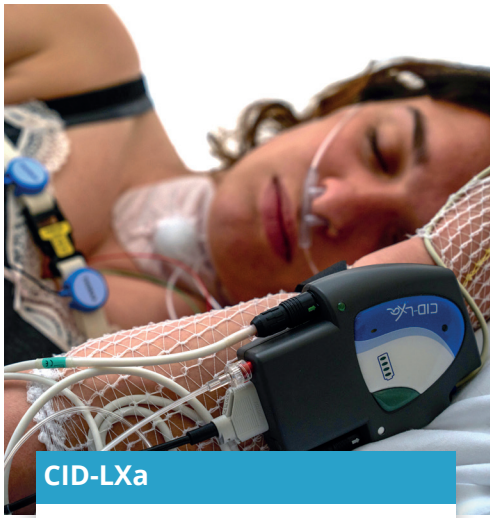
PORTABLE RESPIRATORY POLYGRAPH

Discover advanced respiratory polygraphy

HypnoLighT

HYPNOLIGHT : ACCESS TO THE SLEEP/WAKEFULNESS STATUS IN POLYGRAPHY

/ HOW IT WORKS



CID-LXa

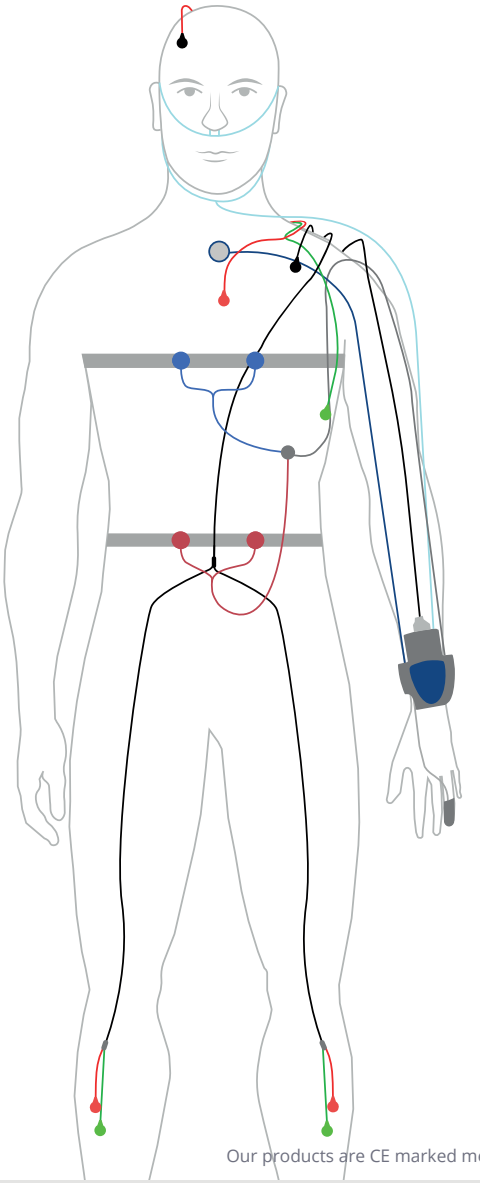
- **Installed** on the patient,
- **Measures** electrophysiological signals,
- **Use** in advanced polygraph

CIDELEC software

- **Automatic analysis** of the signals,
- **Review** of the traces,
- **Archiving** of data,
- Customisable **summaries**

CLICK 'N CID

DOWNLOAD THE APP
FOR A 3D INSTALLATION OF
OUR PRODUCTS.



Our products are CE marked medical devices.

/ WE OFFER

CIDELEC provides:

- **Training and installation of products on site** by our team,
- **Innovative technology of our systems** to obtain precise and reliable measurements
- **Analysis and processing of information** with the creation of personalised reports,
- **After-sales service**, technical assistance and technical expertise

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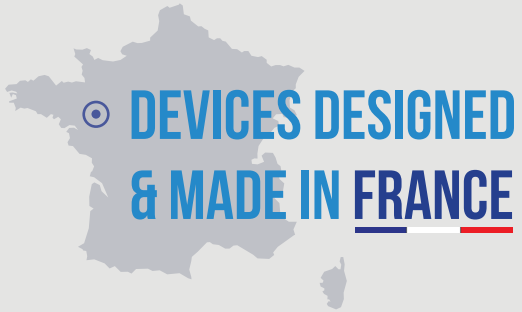

DEVICES DESIGNED
& MADE IN FRANCE

CIDELEC,
30 YEARS
YOUR PARTNER

/ PERFORMANCE & QUALITIES

Our devices to aid the diagnosis of sleep-related or sleep-aggravated pathologies have been designed and manufactured in France for almost 30 years.

CIDELEC supports you throughout their use: presentation, sales, installation, user training, telephone assistance, after-sales service.

The CID-LXa, coupled with the HypnoLighT technology, differentiates between wakefulness/sleep phases using three electrodes (2 EEG/1 mass).

The CID-LXa-206d model also has a pressure channel for the connection of a pneumotagraph when the patient uses cPAP/BIPAP treatment.

Technical characteristics CID-LXa

Dimensions: 32 x 82 x 114 mm- Weight: 135 g- Battery: Li-Po 1700 mAh - 3.7V

CHANNELS	BANDWIDTH	SAMPLING FREQUENCY	STORAGE	PRECISION	POINTS	ELONGATION	OTHER
Breathing sound	200 - 2000 Hz	4000 Hz	Sound intensity to 16 Hz		256		Sensitivity 20 - 80 dB Adaptive threshold
Snoring	20 - 200 Hz	4000 Hz	Sound intensity to 16 Hz		256		Sensitivity 60 - 120 dB Threshold 76 dB
Suprasternal pressure	0.02 - 20 Hz	4000 Hz	8 Hz		4096	+/- 100 Pa	
Position		1 Hz	1 Hz				5 positions
Actimeter		1000 Hz	8 Hz				
Nasal flow	0 - 10 Hz	4000 Hz	256 Hz		65536	+/- 300 Pa	
Machine pressure	0 - 10 Hz	4000 Hz	256 Hz	+/- 25 Pa	4096	0 - 2 kPa	Up to 4 kPa on request
SpO_2 (1)			8 Hz	+/- 3% (between 70 and 100%)(2)	100	0 - 100%	Averaged over 4 pulse cycles
Pulse rate(1)			8 Hz	+/- 5 BPM (2)		40 - 240 BPM (2)	
Photoplethysmogram (1)			64 Hz				
Inductive straps	0.1 - 10 Hz		8 Hz		65536		
ECG channel	0.2 - 28 Hz programmable	500 Hz	128 Hz		65536	860 µV	Built-in 50 Hz noise tester
EMG channels	10 - 100 Hz	4000 Hz	64 Hz		256	20 µV	
EEG channels	0.2 - 35 Hz programmable	500 Hz	128 Hz		65536	860 µV	Built-in 50 Hz noise tester
Pneumotachograph (3)	0 - 10 Hz	4000 Hz	16 Hz	+/- 4%	4096	+/- 1 litre/s	

(1) NONIN manufacturer
(2) Under the least favourable conditions
(3) Only available on the CID-LXa-206d

/ PneaVoX

PneaVoX technology is unique.

One sensor records 3 physiological parameters :

- Buccal and nasal **breathing**,
- **Respiratory effort** via suprasternal pressure to differentiate between obstructive, central and combined apneas,
- **Snoring** (energy, intensity).

Finally, the PneaVoX sound sensor **analyses upper airway resistance** by measuring the sound intensity.

*"The **PneaVoX sound sensor**, to improve differentation between sleep disorders via the analysis of tracheal sounds."*

PneaVoX® Technology

/ SCIENTIFIC BIBLIOGRAPHY

M. Glos, A. Sabil, K.S. Jelavic, C; Schöbel, I. Fietze, T. Penzel. ***Characterization of respiratory events in obstructive sleep apnea using suprasternal pressure monitoring.*** *J Clin Sleep Med. 2018; 14(3): 359-369.*

Penzel T, Sabil A. ***The use of tracheal sounds for the diagnosis of sleep apnoea.*** *Breathe 2017: 13: e37-e45.*

A. Amaddeo, M. Fernandez-Bolanos, J.O. Arroyo, S. Khirani, G. Baffet, B. Fauroux. ***Validation of a Suprasternal Pressure Sensor for Sleep Apnea Classification in Children,*** *Journal of Clinical Sleep Medicine, Vol. 12, No. 12, 2016.*

[...]

PURCHASE

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The CID-LXa is a class IIa medical device, manufactured by CIDELEC - CE No. 0459
The CID-LXa is a device for collecting physiological signals for the diagnosis of sleep disorders.
Read the product instructions carefully before use. Document modified on 01/2022

PC-EN-LXa-4