

The Seizure Detector
you've been waiting for.



The worldwide leader in EEG Software

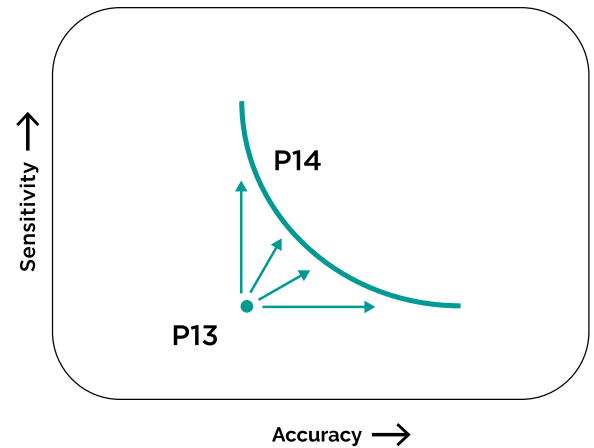


P14 Seizure Detector: Higher sensitivity, higher accuracy, lower latency

Utilizing the latest deep learning artificial intelligence technology and thousands of hours of expertly marked EEG, the P14 Seizure Detector is a quantum leap forward in accuracy. In fact, the P14 Detector is more than ten-times* as accurate as any previous Persyst Seizure Detector. The P14 Detector also features much lower latency so seizure notifications are raised more than a factor of two earlier than our previous detector.

In addition, the P14 Detector now allows you to set patient specific values for sensitivity and duration. These settings are carried across recordings for the same patient. This allows you to adjust the sensitivity and specificity of detector notifications according to the unique characteristics of a particular patient.

Of course, the P14 detector features our unique Seizure Probability Trend which displays all potential detections even if they fall below the patient thresholds.



Shifting the Curve

- Much higher available sensitivity than previous detectors.
- More than 10x fewer false positives than P13 at the P13 sensitivity level.
- Adjustable to match population and patient requirements.
- Latency more than two times lower than P13.

*Based on regulatory filing data

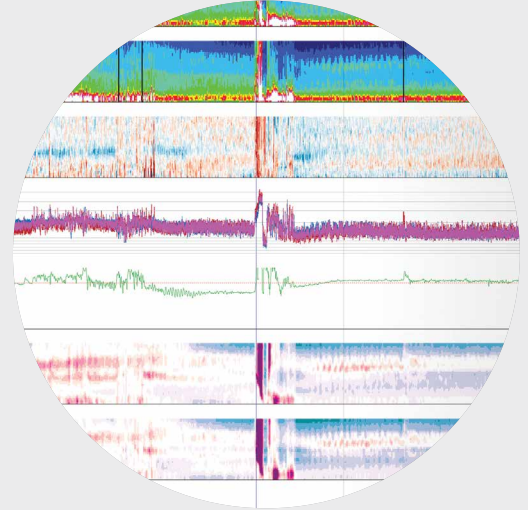
Persyst Trending

Persyst Trending continues to advance the state of the art with the introduction of the comparison to baseline trend. This new capability shows changes, measured in Z-Scores, to the EEG from a computer generated, or user-defined baseline. It is particularly useful in seeing changes that progress over hours or days. The user can define multiple baseline periods to make a variety of comparisons. Further, the baseline comparisons automatically work across patient recordings so on Monday you can see if the EEG has significantly changed from a recording made on Friday.

Persyst 14 introduces a heart rate trend based on the ECG signal recorded with the EEG. In addition, Persyst 14 has the ability to Trend and notify based on other physiological parameters such as ICP, BP, CPP, O2 Sat, and Temperature.

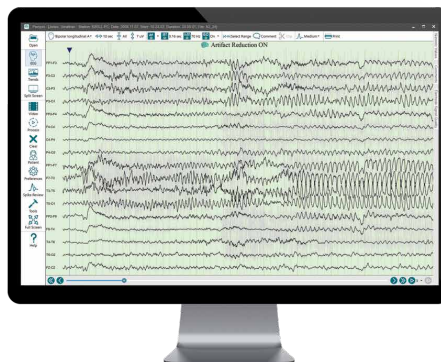
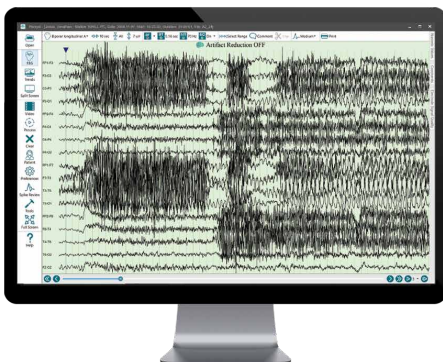
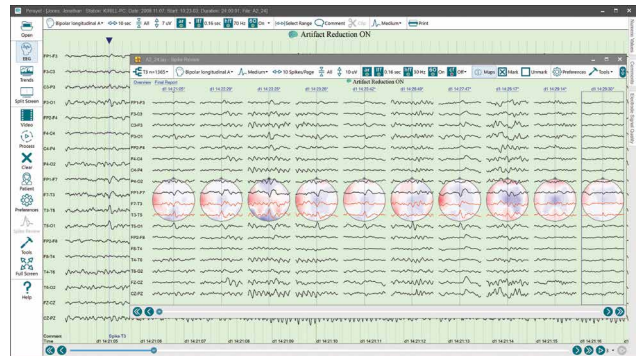
Persyst Trending provides unmatched capability and flexibility. Features include our unique Rhythmicity Spectrograms, allowing you to see the evolution of seizures in a single image. Persyst Trending also provides a full complement of FFT, Asymmetry, Amplitude integrated EEG, Suppression ratio and Alpha/Delta Trends among many others.

And of course all Persyst Trending is based on our unique continuous Artifact Reduction technology.



Persyst Spike Detection

The Persyst Spike Detector is the most advanced available. In two recent papers it was determined to be non-inferior to skilled human readers*. And Persyst includes our unique Spike Review capability to help you quickly visualize the types and frequency of spikes present in a record. Persyst also provides our unique Spike Trends which can help identify periods of high spike activity in both Epilepsy cases and in ICU monitoring.



Persyst Artifact Reduction

Persyst Artifact Reduction detects and reduces artifact including EMG with the touch of a button. Artifact Reduction makes EEG easier to read and it also is fundamental to accurate Seizure and Spike Detection as well as Trending.

*Joshi, C. N., K. E. Chapman, J. J. Bear, S. B. Wilson, D. J. Walleigh, and M. L. Scheuer. "Semiautomated Spike Detection Software Persyst 13 Is Noninferior to Human Readers When Calculating the Spike-Wave Index in Electrical Status Epilepticus in Sleep." J Clin Neurophysiol 35, no. 5 (Sep 2018): 370-74.
Scheuer, M. L., A. Bagic, and S. B. Wilson. "Spike Detection: Inter-Reader Agreement and a Statistical Turing Test on a Large Data Set." Clin Neurophysiol 128, no. 1 (Jan 2017): 243-50.

Persyst is Seamlessly Integrated

Persyst 14 is designed to work seamlessly with your EEG acquisition and review platforms. It is integrated, sold and supported by most major manufacturers including Natus, Nihon Kohden, Cadwell, Compumedics, MicroMed and many more. Analysis begins automatically with acquisition, and detections and trends are displayed in parallel with the EEG waveforms during monitoring and review.

Persyst is the Standard of Care in Top Hospitals

Reducing missed seizures and improving patient safety are the reasons why **97 out of 100 of the top hospitals for Neurology** in the U.S.* use Persyst for EEG monitoring and review. If you have never tried Persyst, then now is the time. If you're already using Persyst, then we have an amazing new way for you to upgrade to Persyst 14.

* As ranked by US News: <http://health.usnews.com/best-hospitals/rankings/neurology-and-neurosurgery>

Recommended Hardware Specifications:

- CPU: i7 processor (or better)
- Memory: 8 GB RAM or better
- Display: 16 bit color, 1280x1024 or better
- Hard Disk: 3 GB free space or more
- OS: Windows 10 Pro.
- LAN: 1 GbE connection speed to file storage for review over local area network

Minimum Hardware Specifications:

- CPU: i3 or better
- Memory: 4GB RAM
- Display: 16 bit color, 1024x768 or better
- OS: Windows 7
- LAN: 100 MbE connection speed to file storage for review over local area network.

97 out of 100

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in the U.S. use Persyst
for EEG monitoring and review.***



Persyst Sales, Support & Operations

3177 Clearwater Drive
Prescott, AZ 86305
+1 928 708 0705 Main
sales@persyst.com

Persyst Corporate Headquarters

420 Stevens Ave. Suite 210
Solana Beach, CA 92075
+1 858 461 4542

Contact us or your Local Distributor

**Persyst 14 EEG Review
and Analysis Software**