



SignalNED: EEG Capture, Quantitative Review, and Clinician Sign-off

A clinical workflow brief for device operations, patient management, EEG analysis views, findings, and audit history.

Who it's for

Neurology, emergency and stroke program leaders, EEG operations, clinical engineering, compliance, and IT

Scope

Product and workflow information grounded in supplied Rainscales materials. Not clinical guidance or a regulatory statement.



Device List — Fleet registry with real-time availability and status

01 Device Management Device Management is SignalNED's device fleet module, covering enrollment, identity and lifecycle management of SignalNED EEG capture devices across hospitals and ambulances, so operations teams can track availability, assignment and connection health in real time.

RAINSCALES

SignalNED > Device List

English

Super Admin
System Admin

SU

MAIN MENU

Permissions

Hospitals

Edges

Staff

Departments

Locations

Patients

AutoOrgans

SonoMate

AutoHygiene

AutoEndoscopy

LifeLine

SignalNED

Devices

Patients

Audit Log

SignalNED — Device list

Fleet of SignalNED devices and their live status.

+ Add device

Total devices

6

In use

3

Available

3

Search by device ID, site, status...

Filters

DEVICE ID	MODEL	SITE	UNIT / AMBULANCE	STATUS	BATTERY	
dung-sim	—	BV SignalNED	Amb 2	In use	0%	✎ ✖
khanh	—	BV 199	Amb11	Available	0%	✎ ✖
sim-4	—	BV SignalNED	Amb 2	Available	0%	✎ ✖
sim-3	—	BV SignalNED	Amb 1	In use	0%	✎ ✖
simulate-0	—	BV SignalNED	Amb 1	Available	0%	✎ ✖
	—	BV SignalNED	Amb 1	In use	0%	✎ ✖

10

1 - 6 of 6

< 1 >

Device List — Fleet registry with real-time availability and status

Patient List — Patient roster with test status at a glance

02 Patient Management Patient Management is where clinicians look up patients, review their EEG test history at a glance, and start a new capture — the entry point into every SignalNED test.

The screenshot displays the 'SignalNED — Patient list' interface within the RAIN SCALES application. The top navigation bar includes the RAIN SCALES logo, a breadcrumb trail 'SignalNED > Patients', and user information for 'Super Admin' (SU) in English. A left-hand sidebar lists various system modules: Permissions, Hospitals, Edges, Staff, Departments, Locations, Patients (highlighted), AutoOrgans, SonoMate, AutoHygiene, AutoEndoscopy, LifeLine, SignalNED, and Audit Log. The main content area is titled 'SignalNED — Patient list' with a subtitle 'Patients with EEG tests streamed to EHP.' and an '+ Add Patient' button. It features four summary cards: 'Total patients 387', 'Total tests 15', 'New 15', and 'Signed 0'. Below these is a search bar 'Search by patient name or MRN...' and a 'Filters' button. The patient list is sorted by 'Newest first' and shows three entries: '99 99' (HOSPITAL QC test 0309, LAST AMBULANCE -), 'Hoang Thuy Linh OH10 - Female' (HOSPITAL BV QC LL, LAST AMBULANCE -), and 'P0907 0709' (HOSPITAL BV 199, LAST AMBULANCE -). At the bottom, there is a pagination control showing '10' items per page and '1 - 10 of 387' total items, with a page indicator showing '1' of 39 pages.

Patient List — Patient roster with test status at a glance

Band Power — qEEG topomap, channel/band matrix and Delta/Alpha ratio

3.2 Band Power Quantitative qEEG band-power view across all 8 recording channels, benchmarked against the normative population. — Scalp topomap: one head map per band (Delta / Theta / Alpha / Beta), electrodes colour-coded by z-score on a fixed ± 3 scale; a red ring flags $|z| \geq 2.0$. — Channels $\times$ Bands matrix shows band power % per channel, shaded by z-score. — Delta/Alpha ratio shown as a horizontal bar per channel on a log scale with a 1.0 $\times$ reference line.



Band Power — qEEG topomap, channel/band matrix and Delta/Alpha ratio

Raw EEG — Waveform playback, filters and signal labeling

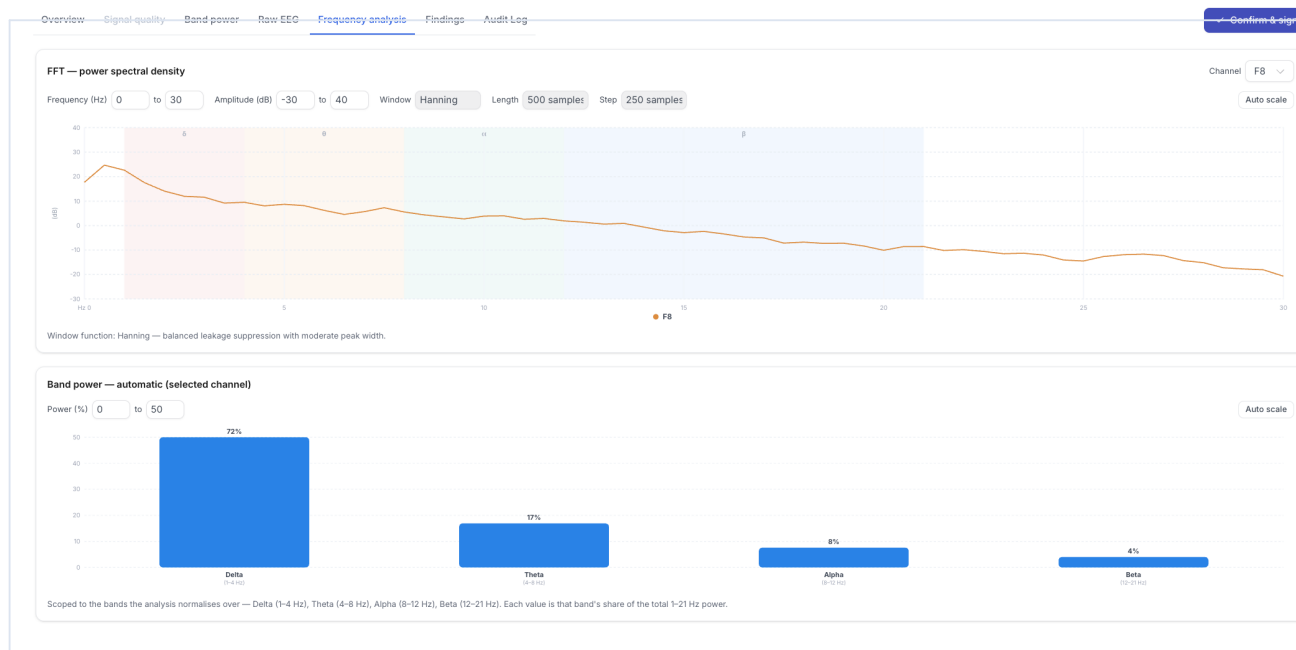
3.3 Raw EEG Full raw EEG waveform playback for the completed recording, with filtering and signal-labeling tools. — Channel selection (All / Left / Right), amplitude control with Auto scale, and adjustable channel spacing. — Client-side, non-destructive High-pass, Low-pass and Notch filters that never alter the underlying recording. — “Add label” lets the clinician / neurologist mark points in the recording considered abnormal, across three taxonomies — Artifact, State and Event.



Raw EEG — Waveform playback, filters and signal labeling

Frequency Analysis — Spectral view of the recorded signal

3.4 Frequency Analysis Frequency-domain view of the recording, complementing Band Power for reviewing the spectral characteristics of the signal. — FFT power spectral density plot for the selected channel, with adjustable Frequency (Hz) and Amplitude (dB) ranges, a configurable analysis window and Auto scale.



Frequency Analysis — Spectral view of the recorded signal

Findings — Active/dismissed findings review and sign-off

3.5 Findings Findings are AI-detected suggestions, auto-detected at $|z| \geq 2$ per electrode/band, that let a neurologist — or even a non-specialist — review and assess the abnormalities the system flags before recording a clinical impression and signing off the test.

OverviewSignal qualityBand powerRaw EEGFrequency analysisFindingsAudit Log

Confirm & sign

ANALYSIS RESULT

Statistical deviations detected

DETECTION THRESHOLD

$|z| \geq 2.0$

Statistical deviation from the normative reference. This finding is not diagnostic and should be interpreted with raw EEG, signal quality, and clinical context.

Active findings

Retained for clinical assessment and the clinical impression.

4 patterns · 7 channel-band observations

RIGHT FRONTAL ELECTRODES · RELATIVE DELTA POWER

Relative delta elevation observed at F4 and F8

Anomaly candidateF4 +2.5 σ F8 +2.3 σ

LEFT POSTERIOR ELECTRODES · RELATIVE DELTA POWER

Relative delta elevation observed at P3 and O1

Anomaly candidateP3 +2.7 σ O1 +2.8 σ

RIGHT POSTERIOR ELECTRODES · RELATIVE DELTA POWER

Relative delta elevation observed at P4 and O2

Strong outlierP4 +3.6 σ O2 +3.4 σ

F3 · RELATIVE DELTA POWER

Relative delta elevation observed at F3

Anomaly candidateF3 +2.5 σ

Findings — Active/dismissed findings review and sign-off

Audit Log — Organization-wide test and device event history

04 Audit Trail Audit Trail gives an organization-wide, read-only history of every SignalNED test lifecycle event and device change, so teams can trace who did what and when for compliance and incident review.

RAINSCALES

SignalNED > Audit Log

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SignalNED — Audit log

Read-only timeline of actions across tests and devices.

Search by actor, patient, test ID, device ID, event type...

Audit events: (35)

TIMESTAMP	ACTOR	EVENT TYPE	ACTION DETAILS	PATIENT	TEST ID
09/09/2026 14:24:12	Super Admin SUPER_ADMIN	EEG label deleted Test	Clinician deletes an existing label after any undo window is committed.	Heo 4 HEO-4	01a08501-d a63e-661b0
09/09/2026 14:24:10	Super Admin SUPER_ADMIN	EEG label deleted Test	Clinician deletes an existing label after any undo window is committed.	Heo 4 HEO-4	01a08501-d a63e-661b0
09/09/2026 14:22:29	Super Admin SUPER_ADMIN	EEG label added Test	Clinician adds an Artifact / State / Event label.	Heo 4 HEO-4	01a08501-d a63e-661b0
09/09/2026 14:20:45	Super Admin SUPER_ADMIN	EEG label added Test	Clinician adds an Artifact / State / Event label.	Heo 4 HEO-4	01a08501-d a63e-661b0
09/09/2026 14:11:25	Super Admin SUPER_ADMIN	Device assigned to patient Test	A device is bound to a specific test/capture/patient context.	Heo 4 HEO-4	0cfe7300-8 ad87-05e76

Rows per page: 10 1 - 10 of 35

TEST ACTIVITY TIMELINE

01a08501-db55-7882-a63e-661b0ad168a0

Heo 4 · MRN HEO-4 · Device dung-sim

Open test details

09/09/2026 14:24:12

EEG label deleted

Super Admin · SUPER_ADMIN

EEG label deleted on test 01a08501-db55-7882-a63e-661b0ad168a0

Field	Previous value	New value
Label	event	Deleted

Event ID · 909c16db-7201-4b61-af20-70f048357336

09/09/2026 14:24:10

EEG label deleted

Super Admin · SUPER_ADMIN

09/09/2026 14:22:29

EEG label added

Super Admin · SUPER_ADMIN

09/09/2026 14:20:45

EEG label added

Super Admin · SUPER_ADMIN

Audit events are read-only and cannot be edited or deleted.

Audit Log — Organization-wide test and device event history



Review the workflow with Rainscales

Use this guide to structure a review with clinical, operational, privacy, security, and regulatory stakeholders.