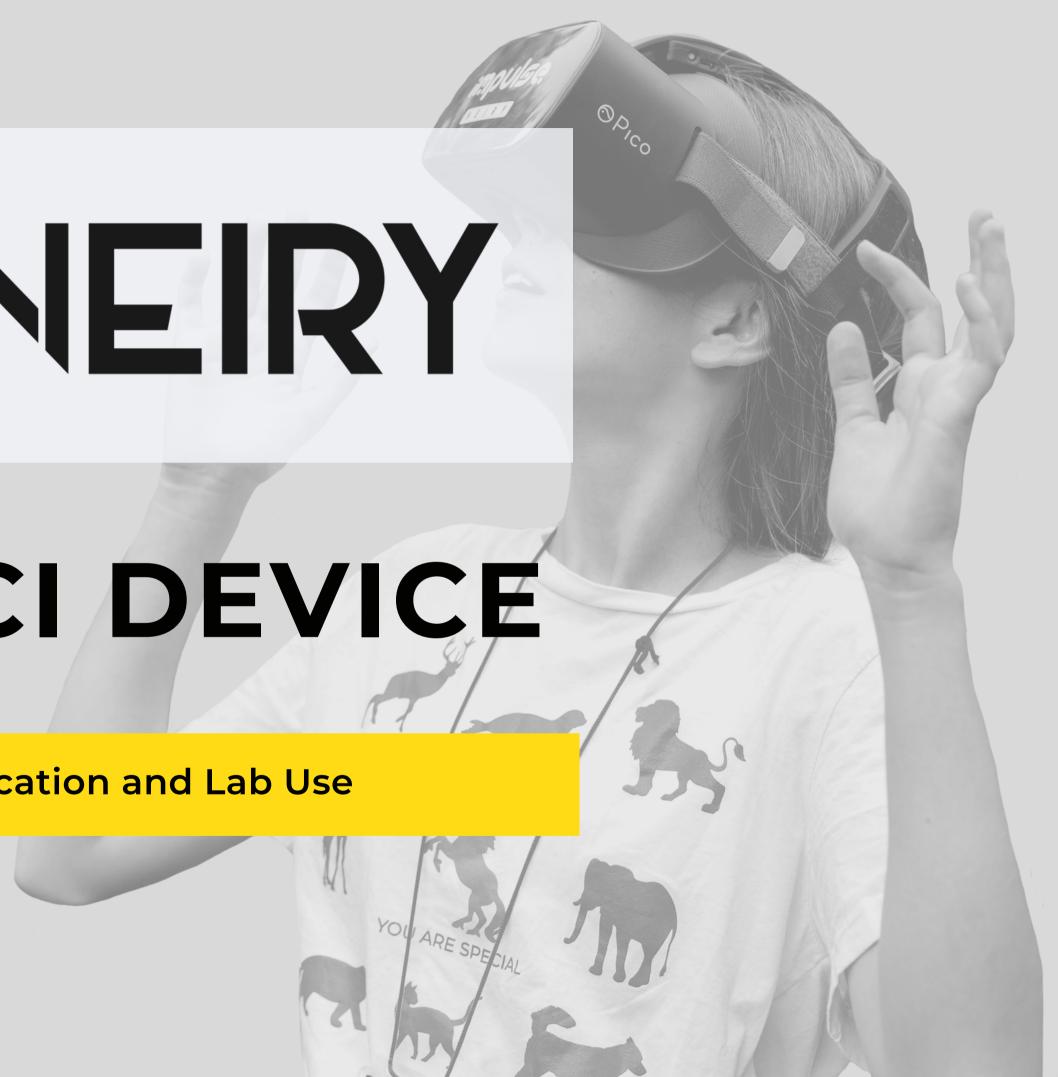


Authorised Exclusive Distributor in India: itie

OWLEDGE SOLUTION



Neiry — a VR-BCI product which provides neuroscience labs a more portable and convenient **BCI system with EEG data, comes** together with a data reader and SDK.



A Combination of HARDWARE, **SOFTWARE and complete EEG system**

VR-BCI device





Attractive and engaging content



Why NEIRY?

CONVENIENT, WIRELESS AND PORTABLE

There are only two steps to use our device - just put it on your head and push the "start" button.

DRY ELECTRODES

User's head stays dry throughout the whole experience.

COMES WITH RAW DATA, READER & SDK

The collected raw EEG data can be analysed using our reader, or any other readers you preferred. The data is convertible into other formats. Our SDK allows you to design your own experiment using the device.

ENGAGING SYSTEM

VR content helps to catch user's attention, while BCI allows users to interact with the content using their brain.



TECHNICAL DESCRIPTION

FOR VR HELMET

- Display 4K (3840 x 2160)
- CPU Qualcomm Snapdragon 835
- Weight 268g
- Refresh rate 90Hz
- Storage 32G
- Bluetooth 4.2





TECHNICAL DESCRIPTION

FOR EEG DEVICE

- Number of EEG channels: 9 (7 EEG + 1 Ground + 1 Referent)
- Number of data channels: 7
- Connection to computers: wireless 2.4 GHz (Bluetooth)
- Working frequency band of the amplifier: 0-80 Hz
- Sampling frequency for each channel: 250 Hz
- RMS value of the noise brought to the input: not more than 1.5 μ V
- Range of amplitudes of the measured signals: +/- 0.8 V
- Bit ADC: 24
- Resistance to electrostatic discharges: 8 kV



WHAT COMES IN THE BUNDLE?

VR-CONTENT, RAW EEG DATA, EEG READER AND **VR-BCI DEVICE** SDK impuls

TRANSPORTING CASE WITH DISINFECTING UV LIGHTS

(FOR PURCHASE OF MORE THAN 6 DEVICES)









Figure 1 - Neiry E3 BCI HMD

1 Introduction

This guick-start guide will offer a sample project provided with SDK. It is a simple P300 project that employs the Unreal Engine 4 and focuses on Neiry E3 BCI HMD. We also provide concise documentation on how to create and set up a new

Now that we have set up our development environment, we can start to explore Example Project provided with SDK.

Project source: {SDK-ROOT}/Examples/ExampleProject Android app: {SDK-ROOT}/Apps/Android/ExampleProject-arm64.apk

The project has stimuli formed as spheres with flashing activation. Its flow is split in two phases: the first is aimed to train a P300 classification model and the second allows predicting what the user will pick.

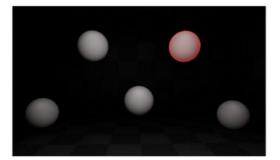
A GLANCE OF OUR SDK

DOCUMENTATION

You can download it through the link: https://neiry-bci.com/sdk

3 Exploring Example Project

3.1 About the Project





Contact

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