NoiseKen

QUICK START GUIDE

Electromagnetic Field Visualization System

EPS-02Ev3

NOISE LABORATORY CO., LTD.

Edition 3.00

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Contents

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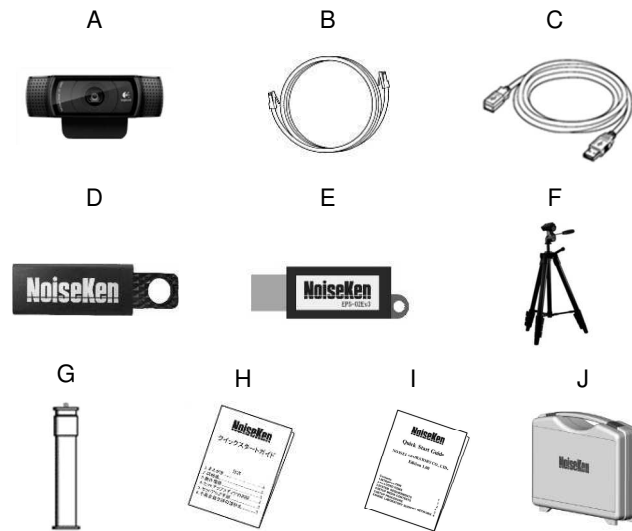
1. INTRODUCTION

Thank you for purchasing the EPS-02Ev3 Electromagnetic Field Visualization System. The setup procedure is described below.

Also, please read this guide together with the instruction manual in the setup media.

2. INCLUDED ITEMS

Before starting use, check that the parts and accessories below are included with the product.

A   B   C

D   E   F

G   H   I   J

A: Web camera
- Main Part ………………………………………… 1
- Warranty ………………………………………… 1

B: LAN cable (2 m) ………………………………… 1

C: USB extension cable (2 m) ……………………… 1

D: Setup media (EPS-02Ev3) ……………………… 1

E: USB protect key ………………………………… 1

F: Camera tripod
- Main Part ………………………………………… 1
- Storage bag ……………………………………… 1

G: Extension pole ………………………………… 1

H: Japanese Quick Start Guide …………………… 1

I: English Quick Start Guide (This guide) …………… 1

J: Storage case …………………………………… 1

* The key of D, E, H and I are included in the upgrade version, and the key of D is disk media.

* The key of D, H and I are included in the minor upgrade version, and the key of D is disk media.

3. SYSTEM REQUIREMENTS

Check the following system requirements before setup.

OS	Microsoft Windows 10 (Japanese / English version) Microsoft Windows 11 (Japanese / English version)
CPU	Intel Core i5 or better (i7 or better recommended)
Memory	8 GB or more recommended
Storage	10 GB or more free space
Display	1366 × 768 dots or more 1920 × 1080 dots recommended
Other	· Operation cannot be guaranteed when using online storage or software that uses cloud services. · 2 or 3 empty USB ports

* The upgrade version and the minor upgrade version require a DVD drive for installation.

* If software with high CPU utilization is running, the operation may become unstable.

* The spectrum analyzer RSA306B may not work in combination with HP ProBook series. Please check in advance.

* Refer to the manufacturer's website for the latest operation warranty of each device such as camera and spectrum analyzer.

4. SETUP MEDIA CONTENTS

The contents of the setup media are as follows.

EPS-02Ev3   EPS-02Ev3 Trial   FACTOR   JSP USB

MANUAL   NI-VISA   RSAAPI

(1) EPS-02Ev3 folder
The EPS-02Ev3 installers are stored.

(2) EPS-02Ev3 Trial folder
The EPS-02Ev3 trial version installers are stored.

(3) FACTOR folder
The factor files for the electromagnetic field probes (PN7405) are stored.

(4) JSP USB folder
The USB protect key drivers are stored.

(5) MANUAL folder
The PDF files of the instruction manual for this product are stored.

(6) NI-VISA folder
The NI-VISA installer is stored.

(7) RSAAPI folder
The installers for using RSA306B are stored.

5. SETUP PROCEDURE

Log on to Windows with an ID that has administrator privileges and follow the steps below to setup.

◇ ＜In the case of upgrade version＞

Follow steps (3) and (5) to upgrade. It is not necessary to uninstall the EPS-02E or EPS-02Ev2 software beforehand. When the EPS-02E or EPS-02Ev2 software is not needed, uninstall it using "Uninstall or change a program" in "Control Panel".

The data file (*.edf) created by EPS-02E or EPS-02Ev2 can be loaded by EPS-02Ev3. However, the file saved by EPS-02Ev3 cannot be used by EPS-02E and EPS-02Ev2.

＜In the case of minor upgrade version＞

Follow steps (3) and (5) to upgrade.

(1) Network Address Setting (when connecting with a LAN cable)

① Set the IP address of the PC. From the "Control Panel", select "Network and Sharing Center", and click "Change adapter settings" from the list on the left side.

② The adapters that can be connected to the network are displayed. Double-click the adapter (local area connection) that is connected to the spectrum analyzer to display its properties. Select "Internet Protocol Version 4" and click "Properties".

③ Set the IP address to "192.168.99.3" and the subnet mask to "255.255.255.0", and click OK. This completes the IP address setting of the PC.

④ Set the IP address of the spectrum analyzer. For details on the spectrum analyzer settings, refer to the instruction manual of the spectrum analyzer. Set the IP address to "192.168.99.100" and the subnet mask to "255.255.255.0".
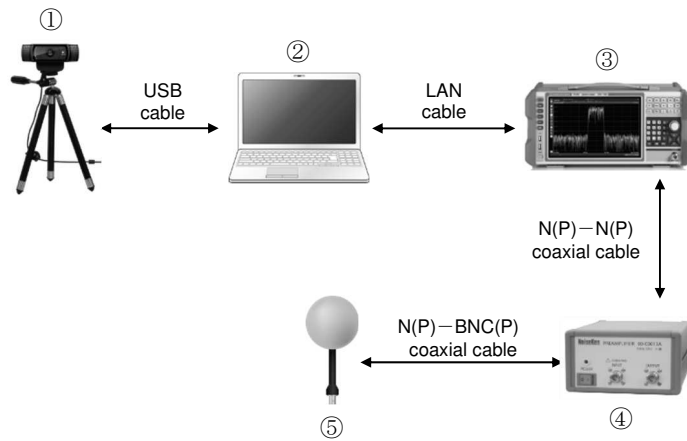
(2) Installation of NI-VISA

① Load the setup media and open the "NI-VISA" folder. Execute [Install.exe].

② The installation program will start. Follow the instructions on the screen to install. When installing, make sure that the installation items include NI-VISA.

(3) Installation of the EPS-02Ev3 software

① Load the setup media and execute [EPS-02Ev3_En.msi] in the [EPS-02Ev3]-[English] folder.

② The installation program will start. Follow the instructions on the screen to install.

(4) Installation of the USB protect key driver

① Insert the USB protect key into the USB port of the PC.

② Select "unknown devices" or "HardKey" of "other devices" in Device Manager and install the driver. The driver file is located in the [JSP USB] folder of the setup media.

(5) Use of the RSA306B

*The following steps are only required when using the RSA306B as a spectrum analyzer.

① Load the setup media and open the [RSAAPI] folder.

② Open the [32bit] or [64bit] folder depending on your PC and execute [setup.exe] in the folder.

③ The installation program will start. Follow the instructions on the screen to install.

6. SYSTEM CONFIGURATION DIAGRAM

The basic system configuration is as follows.

① Web camera

This captures the image of measurement object.

② Control PC

This controls the various devices and conducts electromagnetic field measurement.

③ Spectrum analyzer

This performs frequency analysis of the signals from the measurement sensor and sends the spectrum data to the PC.

④ Preamplifier (Optional)

This is a high-performance preamplifier that can be used for EPS-02 series and other various applications.

⑤ Measurement sensor (Optional)

The electrical field probe, magnetic field probe, and other measurement sensors are selected based on the frequency application. NoiseKen optional probes and commercially-available electromagnetic field probes can be used.

7. SUPPORT NETWORK

If a symptom which seems a trouble is found, check the symptom, software version, model name of connected device, and serial number, and inform this information to Noise Laboratory or your nearest sales agent of Noise Laboratory.