



Getting Started

Using the LENA Pro software version 3.1

This document has been provided to:

- Guide you through your first recording and using Client Manager.
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Getting Familiar with the DLP

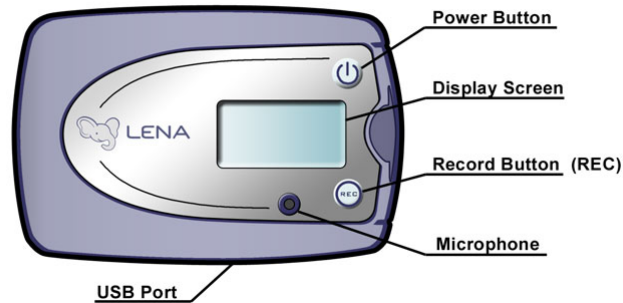


Figure 1. DLP Interface

Power Button: Press and hold the power button for 3 seconds to turn on or off.

Display Screen: Displays the current status of the DLP. Example: "Recording," "Charging," etc.

Record button: Press and hold 'REC' button until display screen reads "Recording."

Microphone: Collects audio data while DLP is recording.

Note: DLP must be placed in the LENA Clothing front pocket to work properly.

USB Port: Connection port for USB cable to wall charger or computer.

Before Recording

Fully charge the LENA DLP before using. This can take up to 3 hours if battery is completely discharged.

Step 1. Charge DLP

- 1.) Connect the DLP to the wall charger using the USB cable.
- 2.) The display screen on the LENA DLP should read "Charging."
- 3.) When battery is fully charged, the display screen will read "Charged."

Step 2. Install the LENA software

- 1.) Place the software installation CD into the CD-drive of the computer on which the LENA software will run.
- 2.) Follow the on-screen instructions to complete installation.
- 3.) Fill in your Product ID. The Product ID will be located on the CD sleeve.
- 4.) Remove the software installation CD from your CD-drive when prompted. Store CD in a safe place.

Note: Once software is installed, double click the "LENA" icon on your desktop to launch the LENA Application. If Windows requests you to do so, restart your computer.

Step 3. Test the DLP (optional)

- 1.) Select "Settings" located at the top right-hand corner of your screen.
- 2.) Next, select "Test DLP" located in the middle of the Settings page.
- 3.) Follow instructions given in the Digital Language Processor Test dialog.

Client Manager

The following content will help you become familiar with the Client Manager of the LENA application.

The Client Manager allows you to create, edit, store, and manage all client or research participant data. From Client Manager you can access all other LENA software features.

Add a child

- 1.) Select the "Add" button located in the "Child" section.
- 2.) Fill in required fields: First Name, Last Name, Birthdate, and Gender.
- 3.) Select "Save" to accept changes or select "Cancel" to discard your changes.

Assign DLP before Recording

- 1.) Connect the DLP to your computer.
- 2.) When "New DLP Found" dialog comes up, click OK and the DLP will be ready to assign to a child.
- 3.) From the Client Manager screen, select the child you want assigned to the DLP.
- 4.) Click the "Assign DLP" button.
- 5.) From the Assign DLP dialog, select "(New DLP)".
- 6.) Click "Assign". The child is now assigned to the DLP you've selected.

Recording

Step 1. Turn DLP On/Off

- 1.) Press and hold the power button for 3 seconds. This will turn the DLP on. The display will read "Sleeping" once the DLP has finished booting.
- 2.) To turn the DLP off, press and hold the power button for 3 seconds. This will turn the DLP off. The display screen will be blank.

Step 2. Record

- 1.) When you're ready to record, have the LENA Clothing nearby, as you will need to put the DLP into the front pocket and dress the child in the clothing. (As shown in Figure 2.)

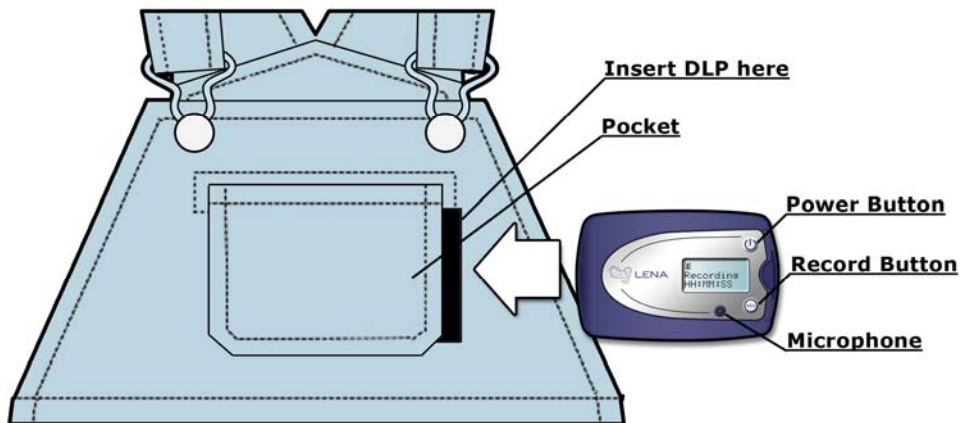


Figure 2. DLP placement into LENA Clothing

- 2.) Make sure the DLP is on. Press and hold the 'REC' button until display reads "Recording." This marks the beginning of the recording.
- 3.) Immediately place the DLP into the front pocket of the LENA Clothing, snap the pocket closed, and dress the child in the clothing.
- 4.) Go about the normal day.

Note: To be compared with our normative data and obtain percentile ranking, a minimum 10-hour recording is required. The DLP can record for up to a maximum of 16 hours.

After Recording

Step 1. Remove the DLP from the child's pocket

- 1.) At the end of the day, remove the DLP from the child's LENA clothing pocket; and press the power button to turn the DLP off.

Step 2. Transfer audio data

Transferring the audio file moves data from the DLP and stores it onto your computer. Processing (as described in Step 3) allows the LENA software to analyze the data, and produce reports.

- 1.) Turn the DLP on and connect the DLP to your computer via the USB cable.

Note: Please allow a few moments while the drivers load. You may see a Windows USB Device message in the lower, right hand corner of your screen. This message will disappear when drivers have loaded.

- 2.) A dialog box titled "DLP Connected" will appear allowing you to select whether you want to "Assign" the DLP, "Add Child," "Purge DLP", or "Cancel." The pre-assigned child will be highlighted.
- 3.) Select "Assign."
- 4.) The "Digital Language Processor" screen appears showing progress of transfer. Audio will automatically begin transferring. Audio transfer will take approximately 2 to 5 minutes.
- 5.) You can now safely remove the DLP from your computer and recharge it.

Step 3. Processing audio data

- 1.) After the audio has transferred the software automatically begins processing the file.
- 2.) The status column changes from "Transferring" to "Processing."
- 3.) Due to the complexity of the LENA software, please allow anywhere from 3 to 16 hours for processing time. Processing time depends on the language environment, computer speed, and processing power.
- 4.) We recommend allowing the LENA software to process overnight. The software can be set to automatically shut your computer down when processing is complete. (See checkbox below Job List or Preferences on the Settings page.)

Note: Charge the DLP overnight to prepare for the next recording day.

Step 4: View your LENA Reports

- 1.) After processing is complete click the "LENA Reports" button in the Digital Language Processor screen.
- 2.) The following reports are available: Adult Words, Conversational Turns, Child Vocalizations, Audio Environment, Composite View, and Report List.
- 3.) Navigate through the reports by selecting the appropriate box located on the row at the bottom of the Reports screen.

Please refer to the User Guide for additional feature details, navigation information, safety guidelines and helpful suggestions regarding the LENA software.

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