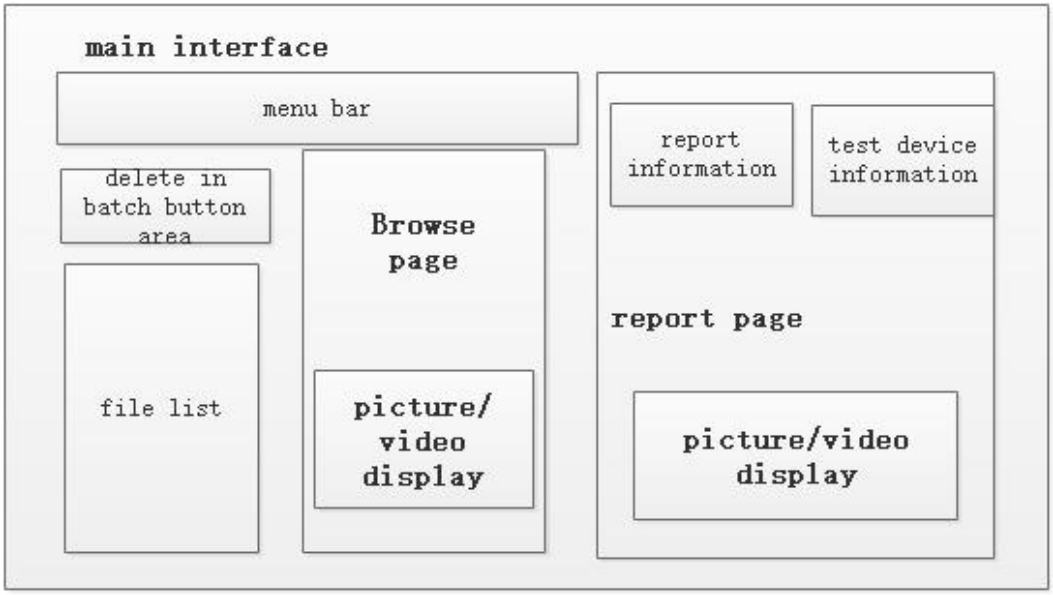
2021.11.15 V2.0.0

Analysis Tool Manual

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一、Interafce

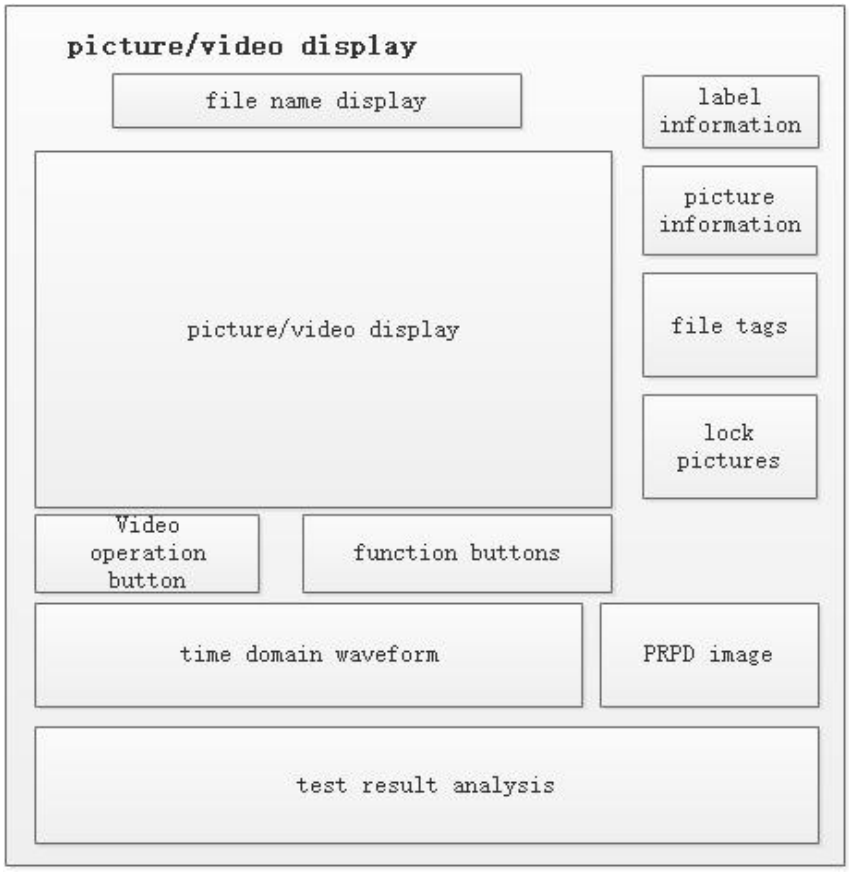


Main interface framework

The main interface is the basic interface of the whole software, which is composed of several other interfaces: menu bar, file list, batch delete button area, browse page and report page.

Among them, the browse page is completely composed of preview interface;

The report page is mainly composed of preview interface, which contains more areas of report information and test equipment information than the browse page. In software, there can be multiple report pages.



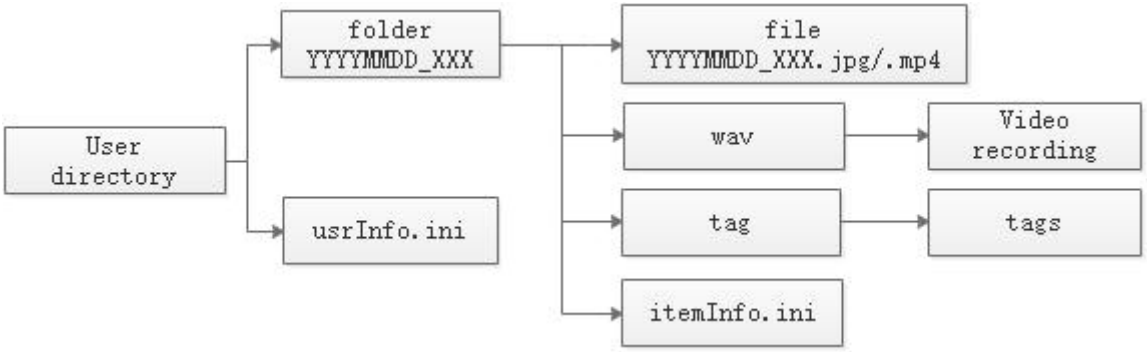
Preview interface framework

Preview interface is the most important functional interface, which can be reused in both the browsing page and the report page. Users can analyze and judge documents on this interface, which consists of the following functional areas: File name display, picture/video display, video operation button, picture information, file label information, locked picture view, video playback switch button, function button area, time domain waveform, PRPD spectrum, test result judgment.

二、Interface Functions

Menu Bar

File



File storage format

Import: Import the file to be analyzed and select a user directory path corresponding to the file. The Chinese directory is supported;

A path that can be pasted and copied is opened;

Only one user directory can be opened at a time;

The user directory can be imported only when the usrinfo. ini file is available

Delete: The selected file is deleted from the file list. The local file is not deleted

Delete in Batch: Click to enter the batch deletion state, and file viewing switchover cannot be performed

Edit

New Report: Create a report page (Electricity/Gas). A maximum of 30 report pages can be created

Export Report: Export the report page that is currently being edited

About

Language: Set the software language to take effect after you restart the software

File List

Displays a list of imported files;

In browse page: Click on the file to view the switch;

In report page: The check box will appear before the file name. At this time, clicking the file will have no effect. Check the check box will automatically add the corresponding test point in the current report page and display the file information. Check again to cancel the file analysis and delete the corresponding test point in the current report page (you can check whether it is selected in the report page by checking the check box of the file).

Batch Delete Button Area

Check Box

Select all files or select none files

Done

Delete files in batch

Cancel

Exit the batch deletion state

Browse Page

Preview Interface

Preview to display files and view file information (preview interface functions are described separately later)

Report Page

Report Information

show the information read from usrinfo.ini, the information will be exported to report.

Test Device Information

The same with “Report Information”

Preview Interface

Preview to display files, view file information, analyze files, and form report content (preview interface functions are described separately later). Add test points and a preview interface for a maximum of 10 test points.

Preview Interface

File Name Display

Displays the name of the file being viewed



File name

Picture/Video Display

Display the selected picture or video

Video Operation Button

Switch video frame button: when displaying video, switch current video frame



Basic buttons for progress display and video operation

Function Buttons

Display buttons when current file is video;

Lock button： lock the picture of the video at most

Capture button： capture a video, if there is a video recording, along with the audio; After capturing, part of the video can be viewed;

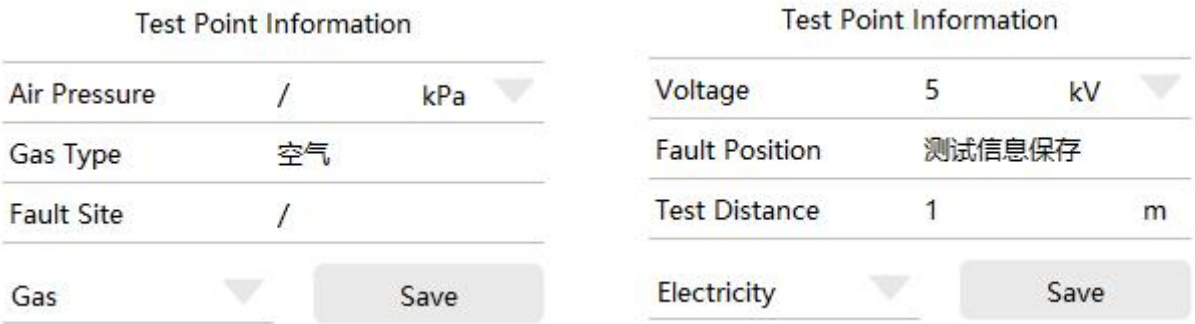
Export with report: The captured video and audio files are exported and saved together with the report 存



Function buttons

File Label Information

Divided into electricity and gas, read the information in ItemInfo.ini. If the file does not exist, the same type content as the report page type is displayed by default. Can be modified to save



Gas/Electricity label information

Picture Information

Display device parameters during recording of the currently displayed picture (each frame of a video);

Max SPL can be modified. Save the modification to the report when viewing pictures; Save only the locked image information when viewing videos



Picture information parameters

File Tags

Tags of file: image tag, audio tag, text tag. Click button to check



File tags

Locked Image

Check the locked image. Click button to move the video slider to the locked position for viewing;

"delete" button to cancel lock;

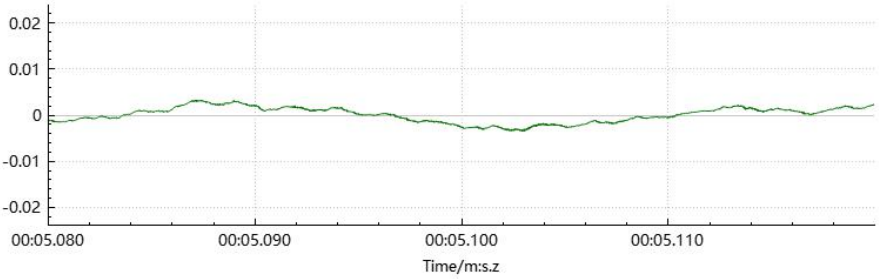


Locked image

The time domain waveform

Draw the time domain waveform of video recording, display the current picture frame audio data, scalable display;

Blank if audio data is not present or cannot be read;

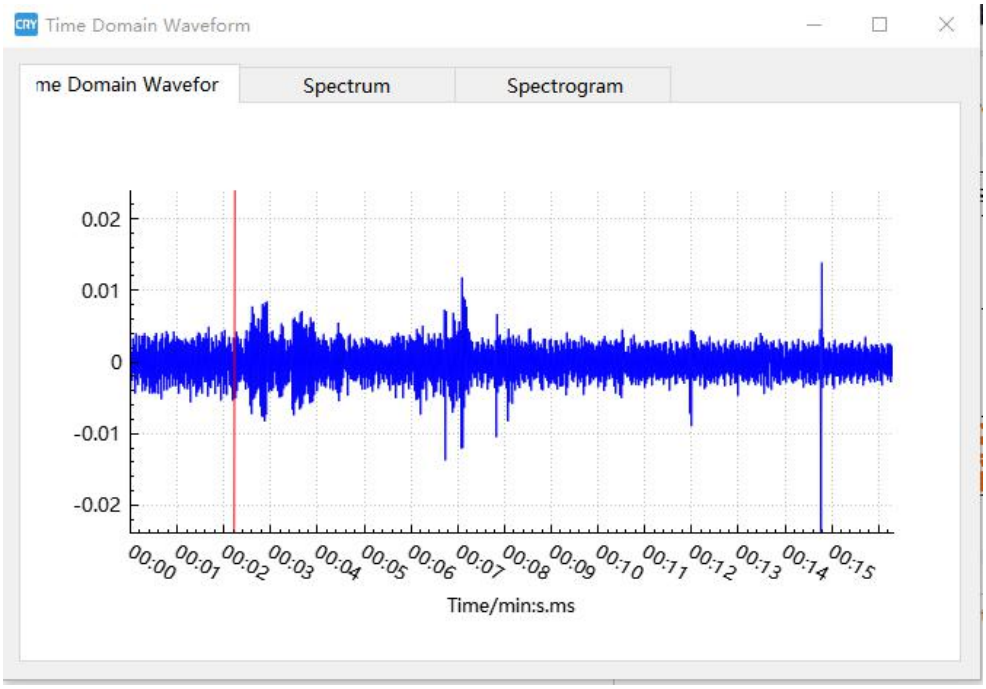


Picture frame data

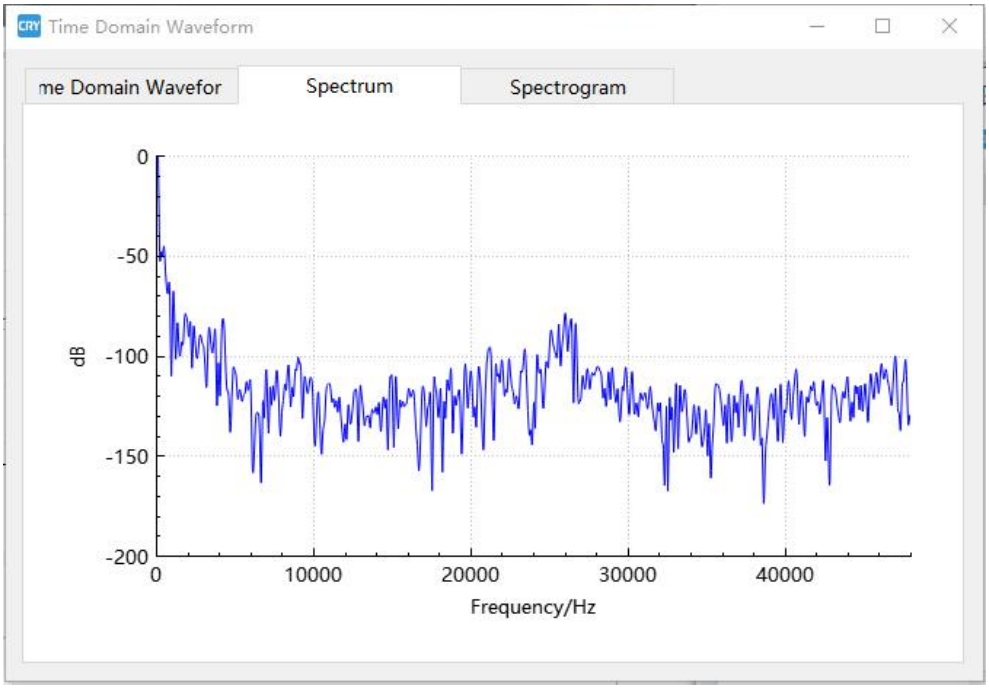
Time domain waveform Image

If the time domain waveform exists on the preview screen, click the time domain waveform display screen, which consists of time domain waveform, spectrum, and speech spectrum respectively.

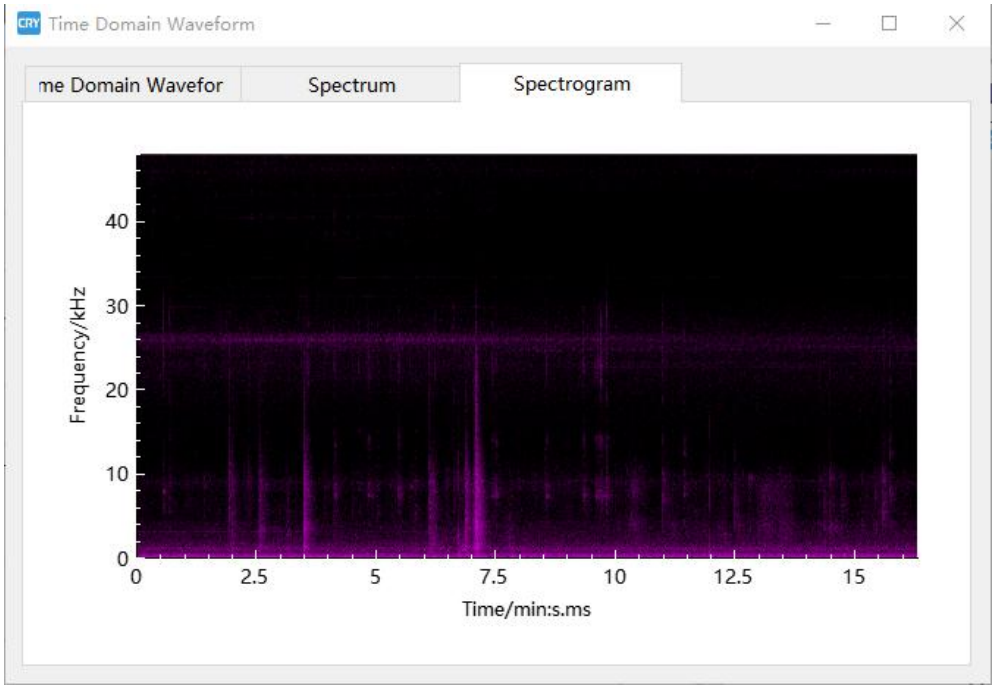
Time domain waveform: shows the audio data of the entire video recording. The red vertical line represents the current video playing position



Spectrum: spectrum of the audio data in the current picture frame

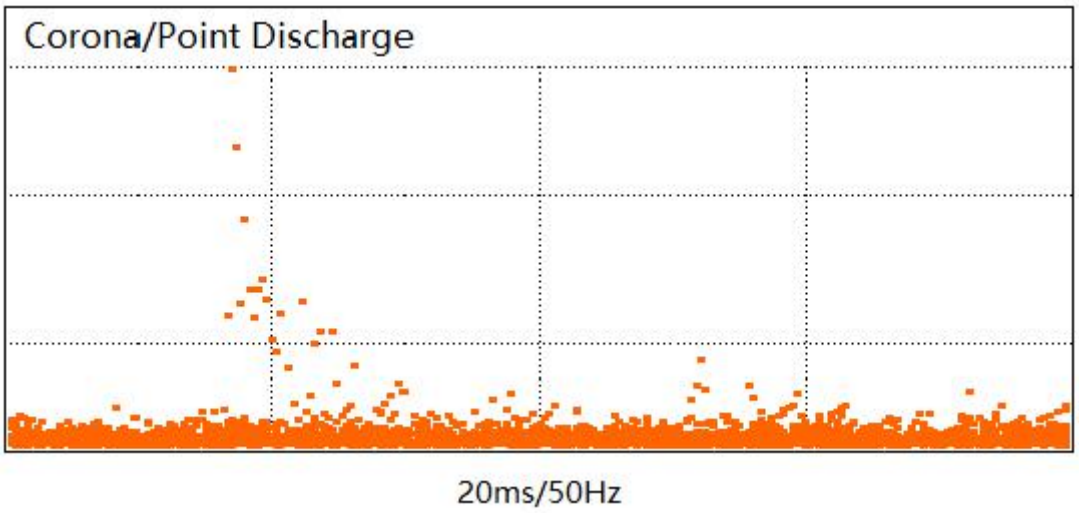


Spectrogram: the spectrogram of the entire audio data



PRPD Image

Analyze video recording data, draw PRPD map, and display the PRPD map, discharge type and frame rate corresponding to the current picture frame. If no video recording exists, blank.



PRPD image and discharge type

Test Result Analysis

Analyze the data of the current file, fill in the test results, and export to the report;

Fill in the text box with the basis for judgment, which will not be exported to the report for the time being.



Test result analysis

三、Report Template

The test report template reference the file in the “docs” folder: “template_gas.xlsx” and “template_electricity.xlsx” .