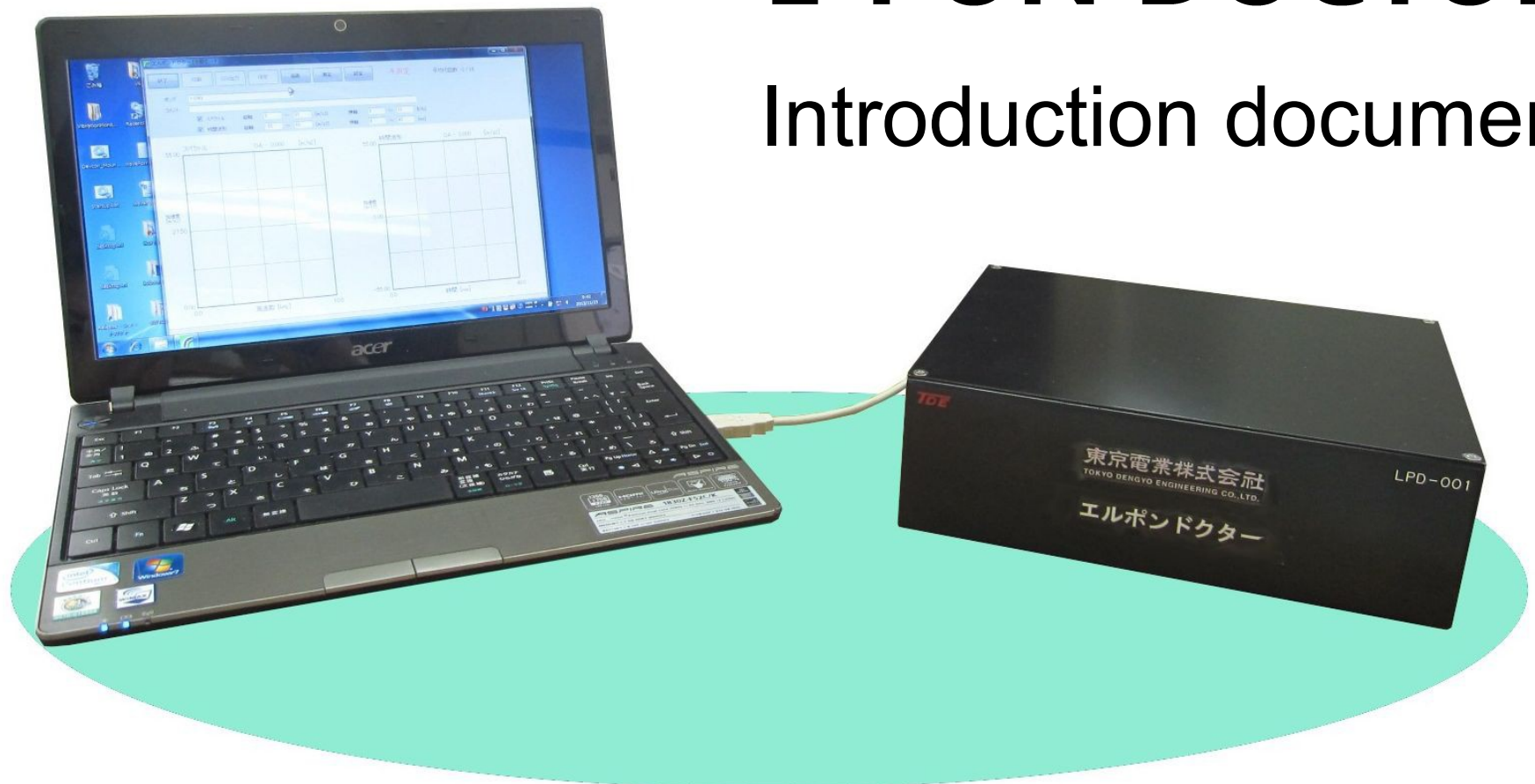




L-PON DOCTOR

Introduction document





1. Purpose of system introduction

- Collect vibration data of pumps



Visualize the vibration tendency of each pump

- Calculate the remaining life of the bearing based on the collected vibration data



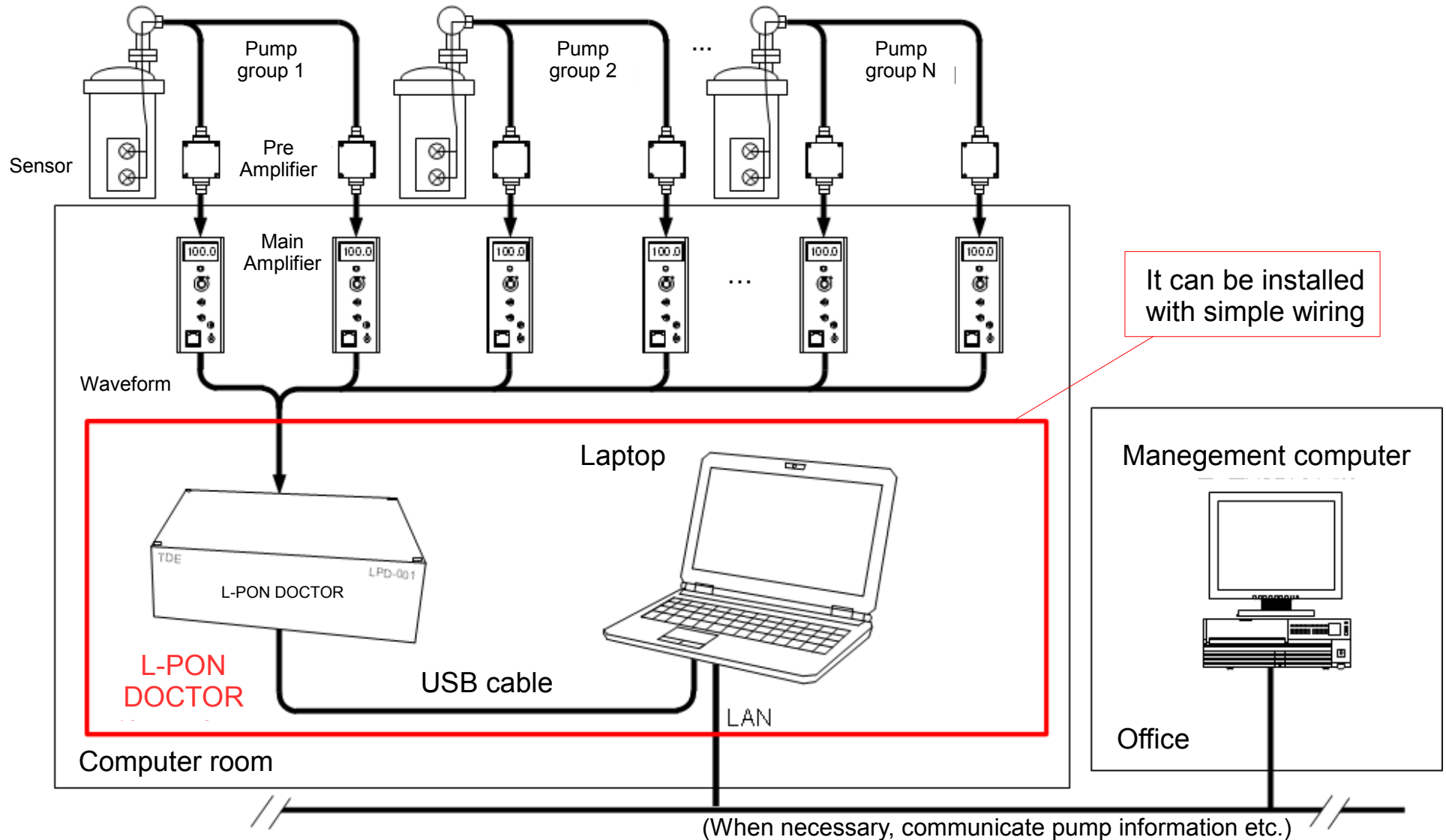
Increase maintenance interval = cost saving

TDE 2. Function of vibration monitoring system

- **Monitor** vibration of active pumps
- **Collect** vibration data on a regular basis
- Collect the vibration data of the target pump **immediately** when issuing an alarm
- **Predict lifespan** based on stored vibration data



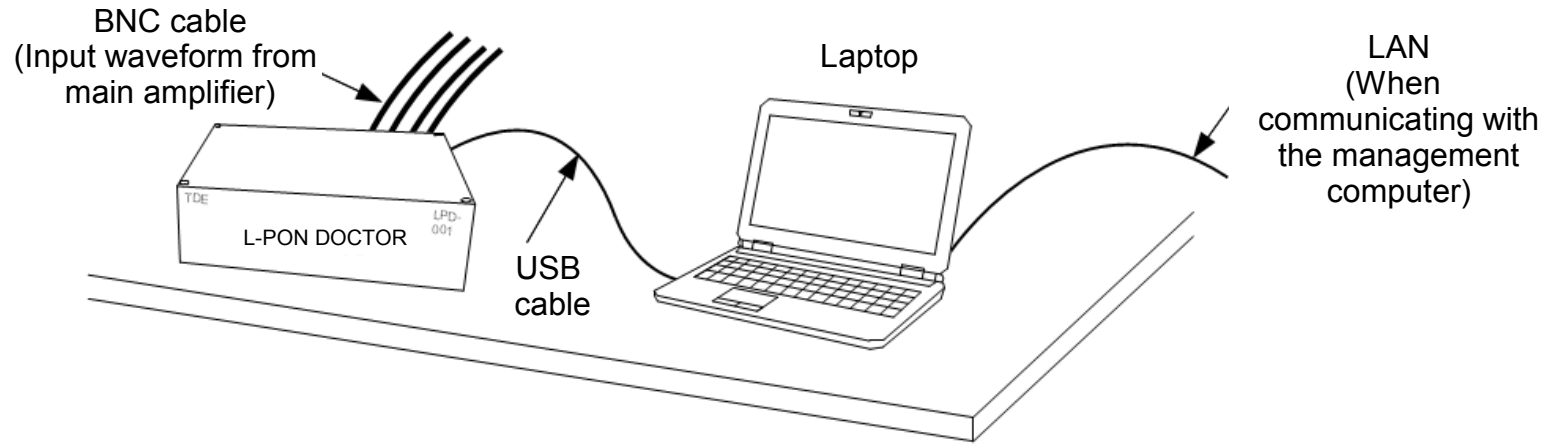
3-1. System configuration



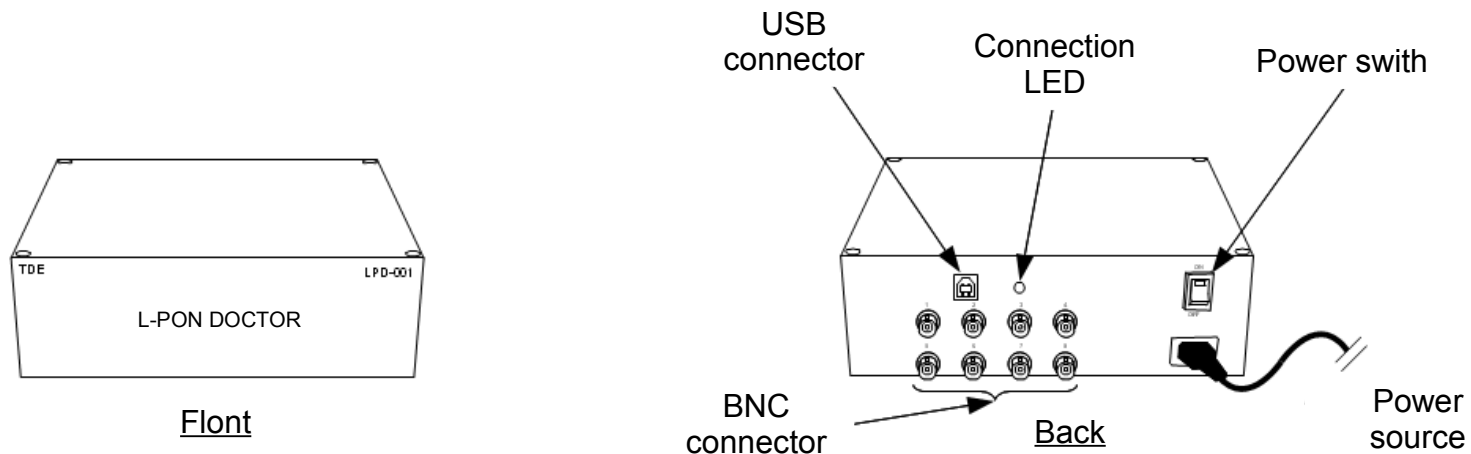


3-2. System configuration

– Installation example of equipment



Installation example

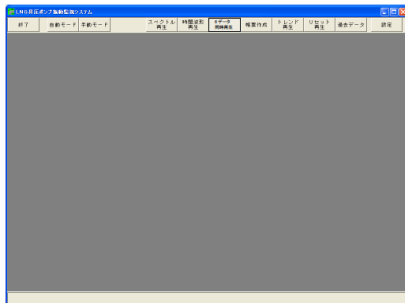


Although the standart product is 8 channels, it is possible to add more channels.

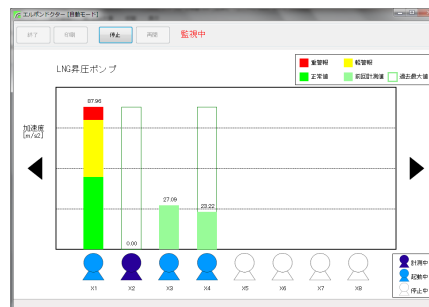


4. Diagnostic software - constitution

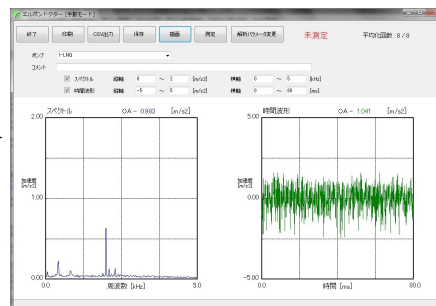
Main Screen



Automatic mode



Manual mode

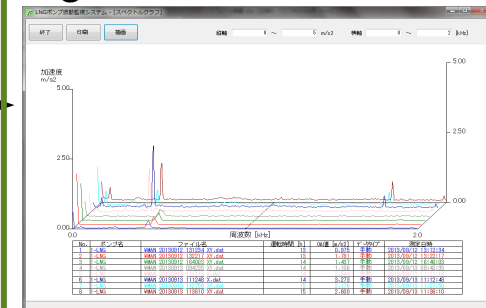


Various settings

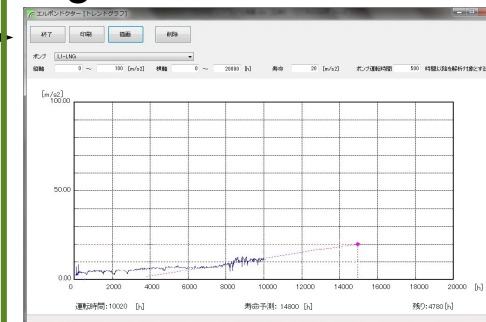


(Data acquisition)

Spectrum・timewave regeneration



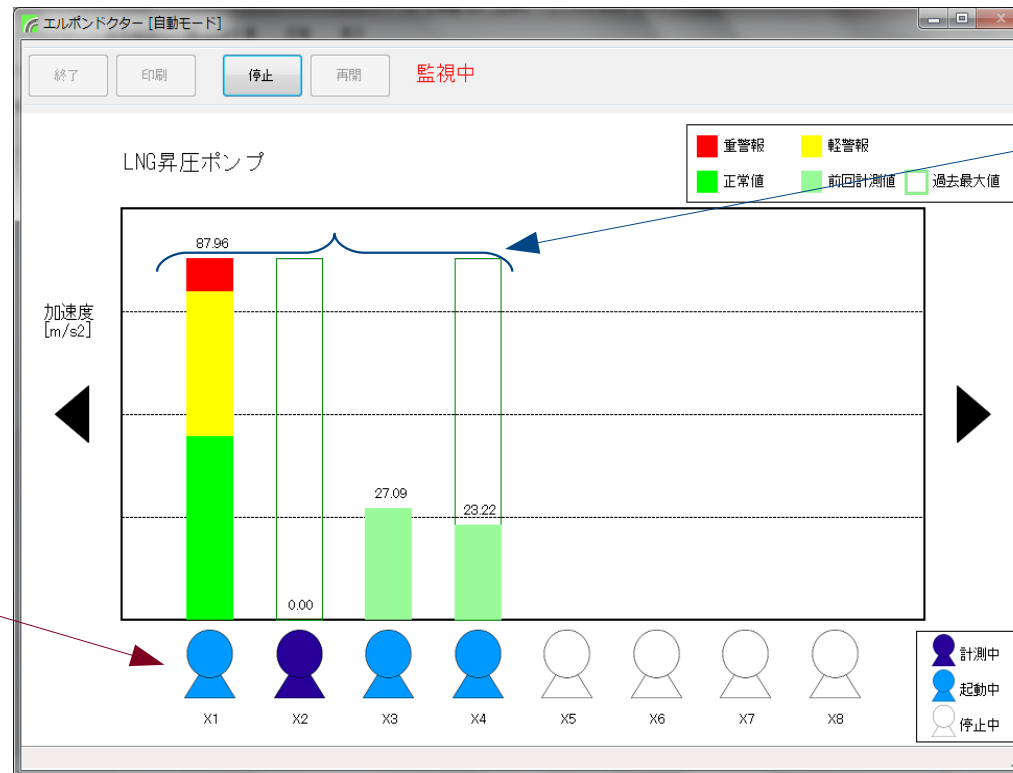
Trend data regeneration



(Data management)



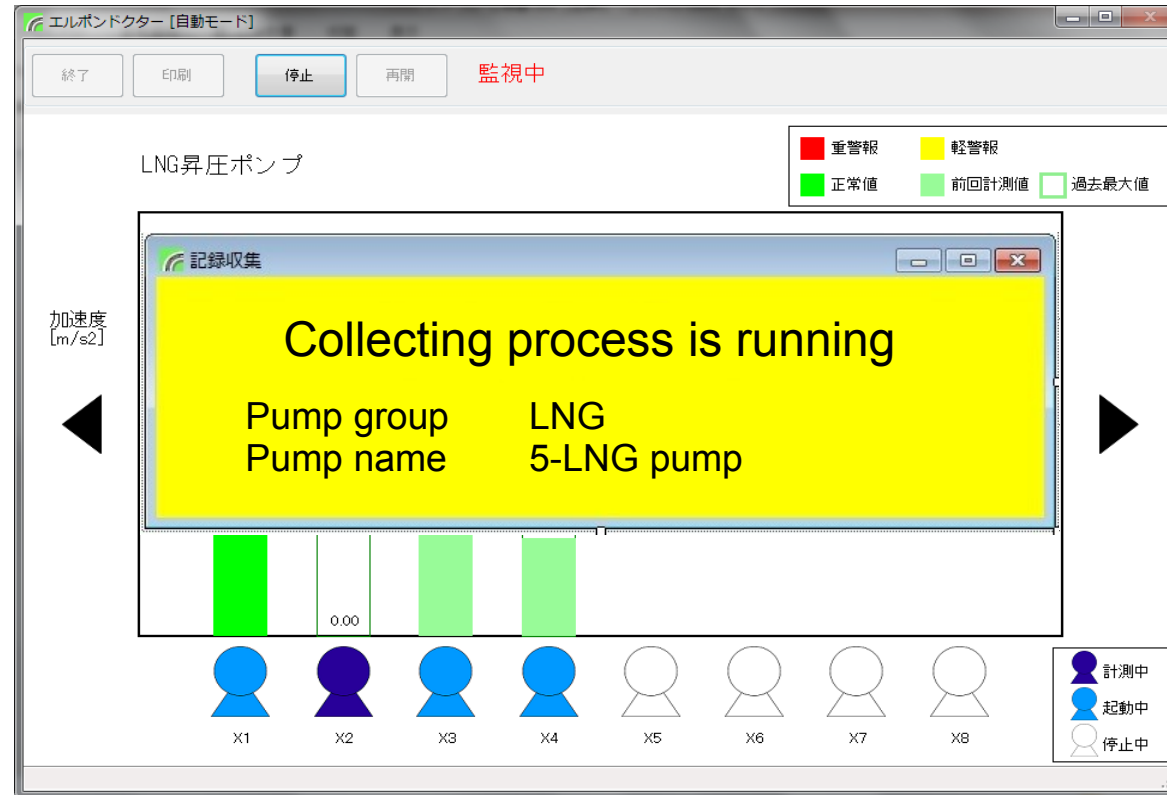
4-1. Automatic mode - screen





4-2. Automatic mode

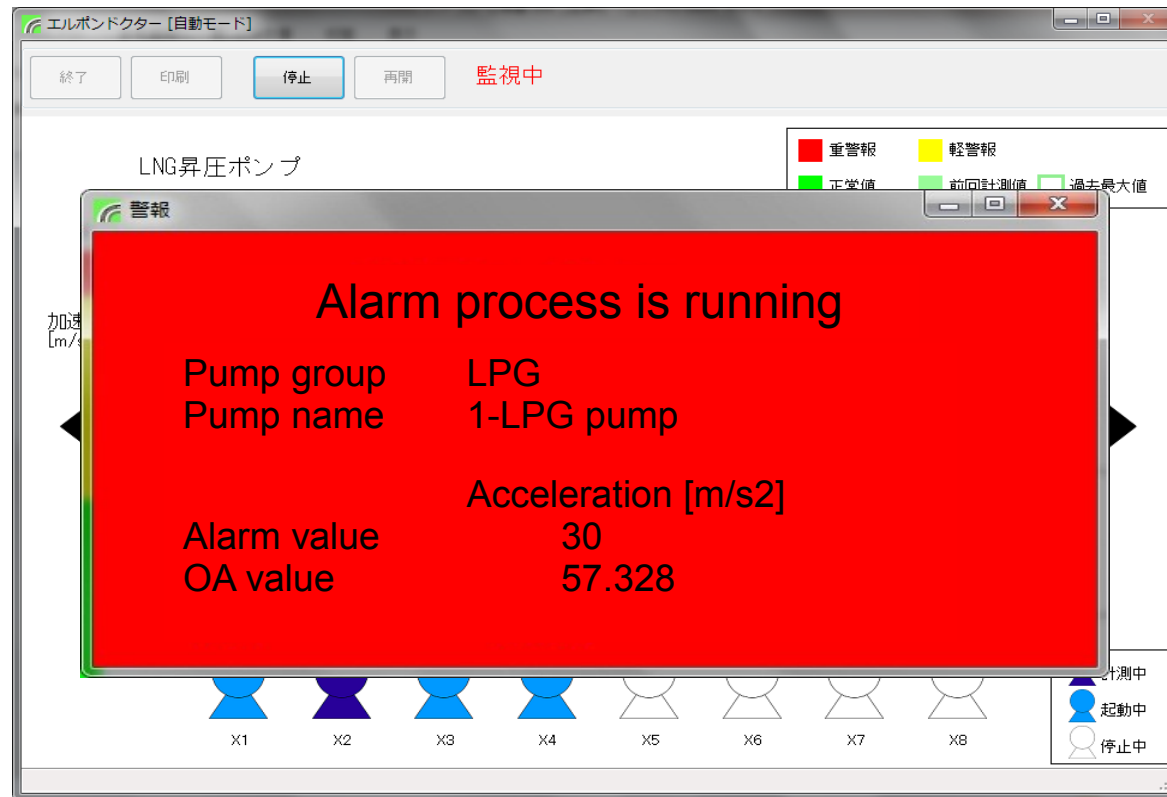
- During regular data collection



- Collect data according to the record collection cycle.
- Data is saved on the HDD.



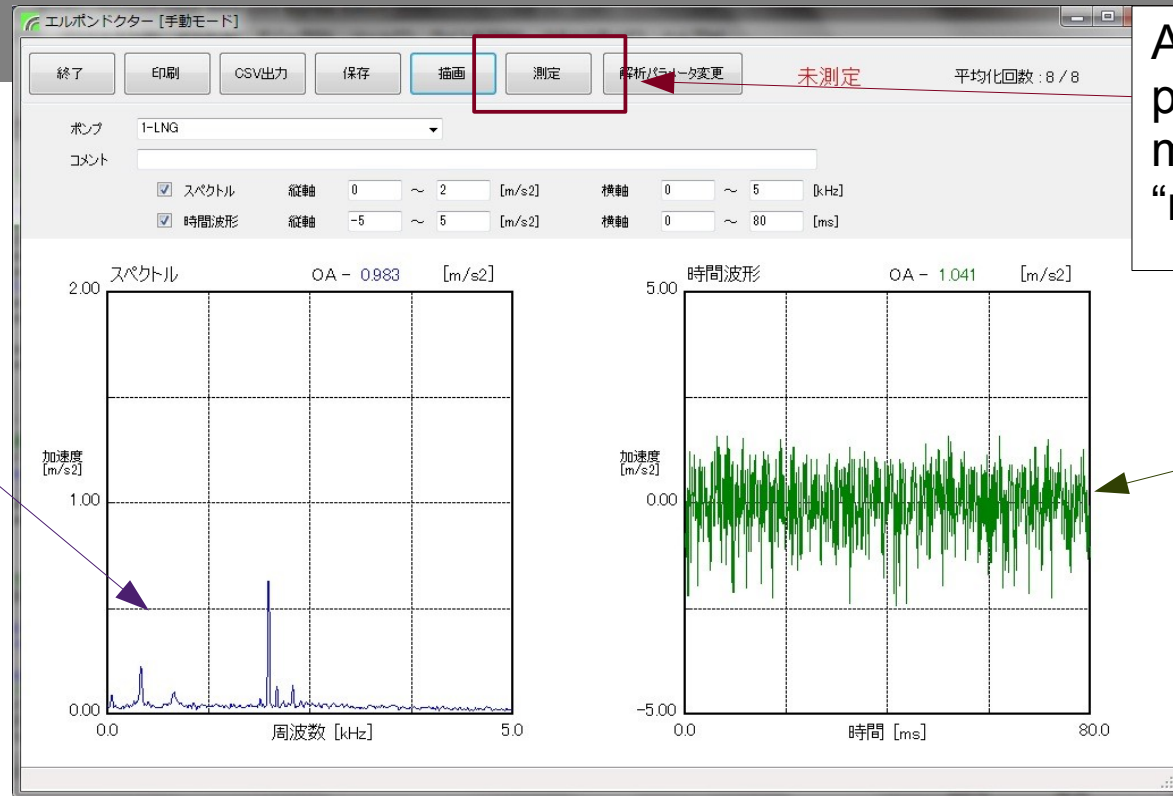
4-3. Automatic mode - alarm



- If abnormal vibration is detected, it will collect data immediately and help to identify the cause of trouble.



4-4. Manual mode - screen



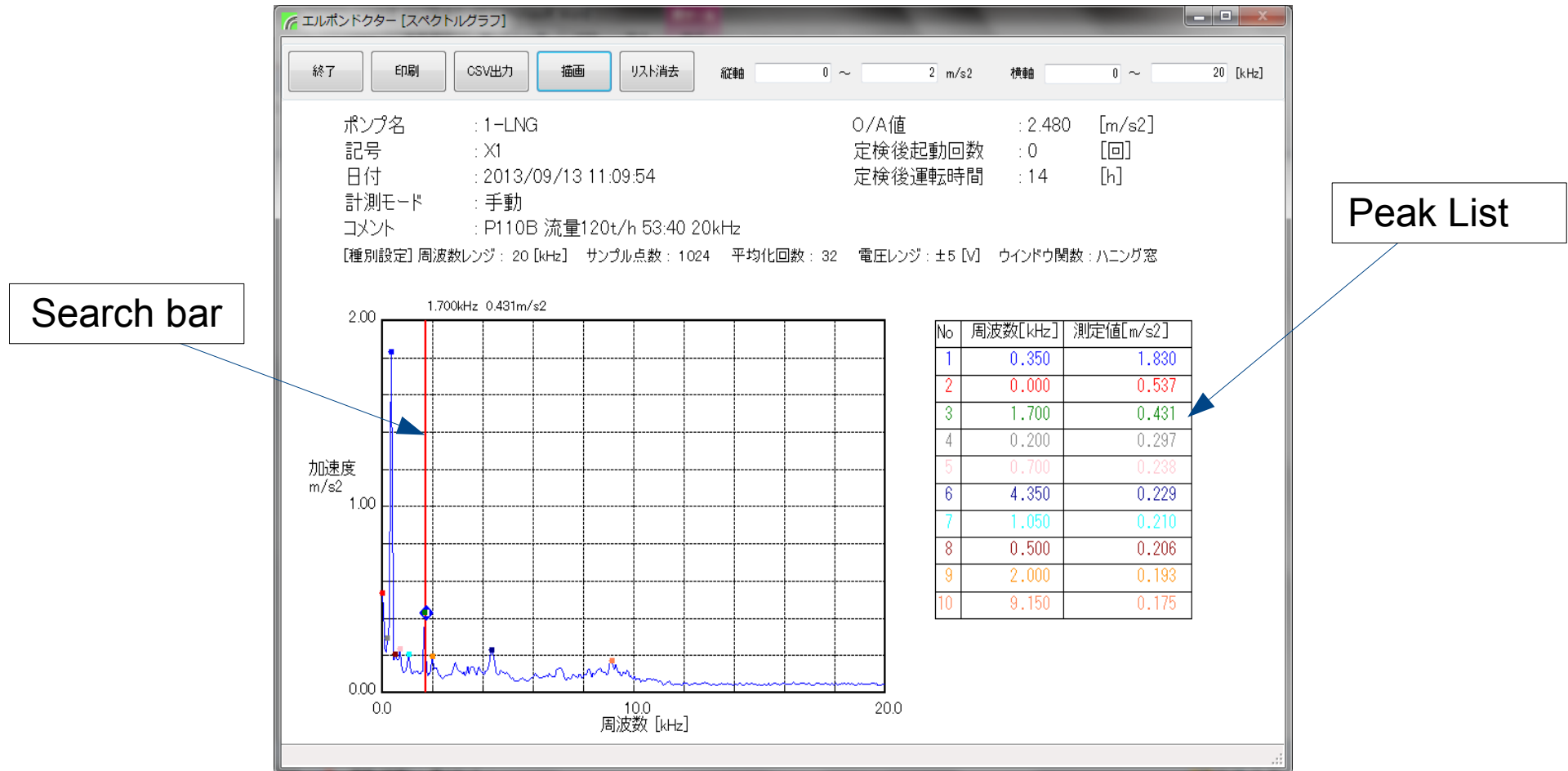
Analyzed spectrum by FFT Analyzer

The time waveform at the time

- You can manually analyze the waveform at any time.



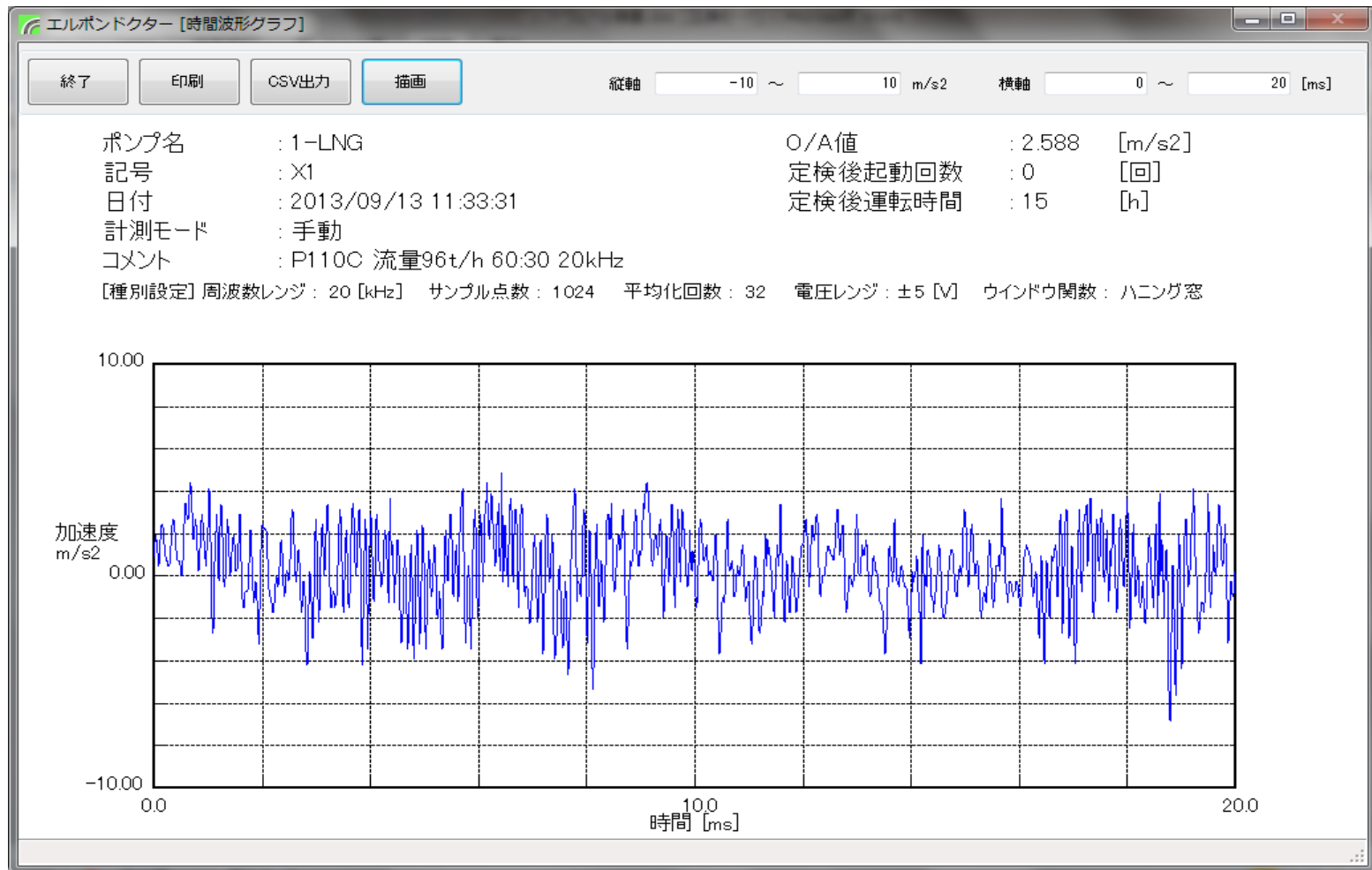
4-5. Spectrum - graph



- Display FFT analysis data (Spectrum).
- Identify the peak frequency by peak list and search bar.



4-6. Time waveform - graph



- Display the time waveform before analysis.



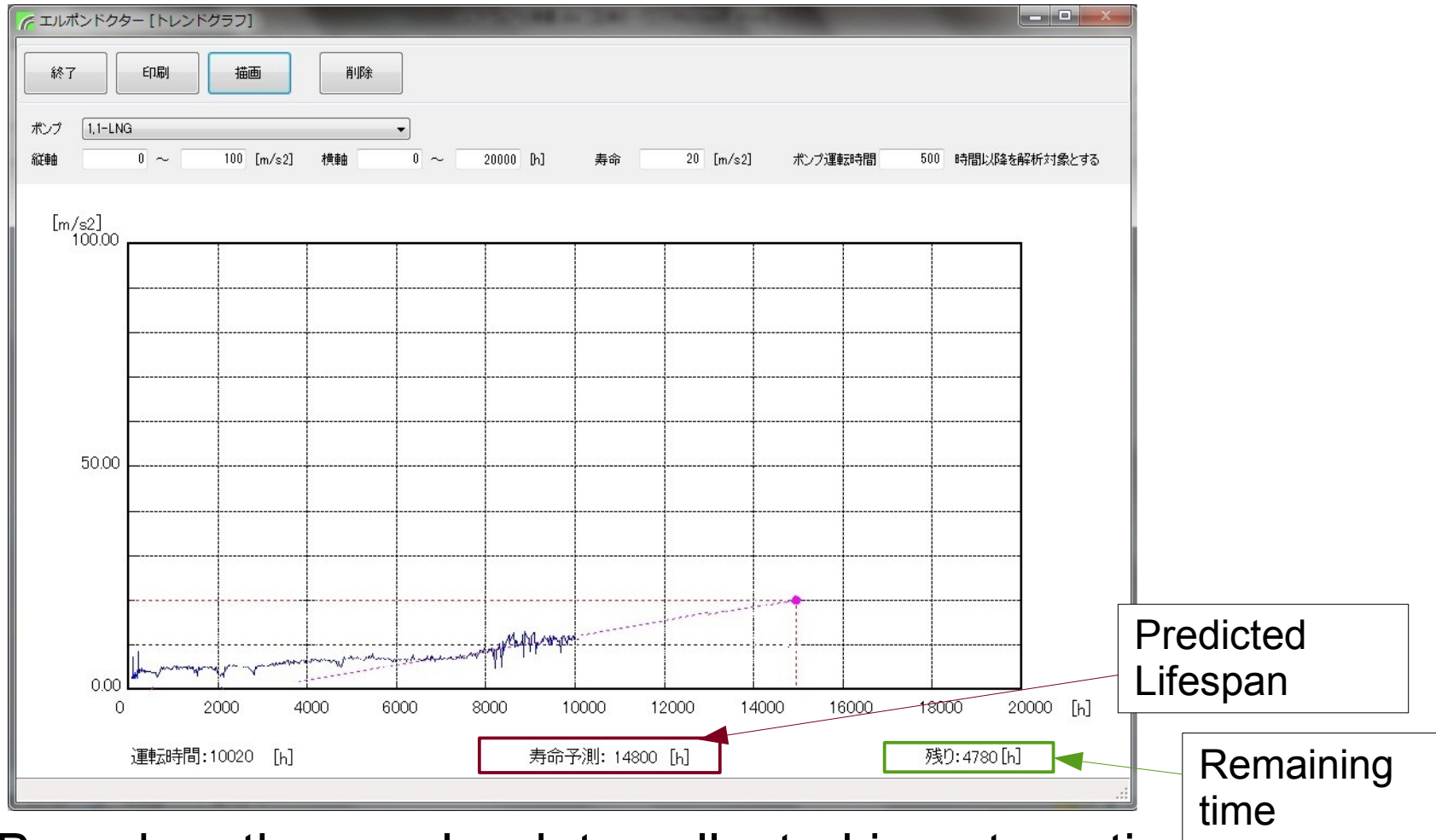
4-7. 3D data - graph



- By displaying spectrum data in chronological order, you can check the time change of them.



4-8. Trend data - graph



- Based on the regular data collected in automatic mode, predict the proper timing of repair of pump.



5. Characteristics of software

- Simple onfiguration and easy to use
- Possess only necessary functions
- Can also be customized for details