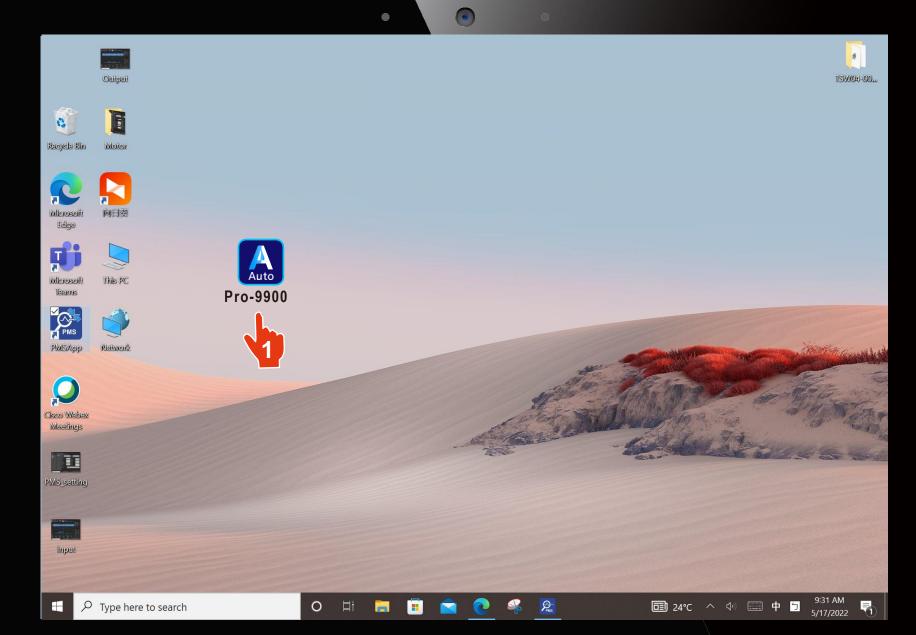


Pro-9900 Intelligent Portable High Resolution Vibration Acceptance Instrument

Vibration Acceptance Software Operation Guide



Click according to the sequence

1. Click



Pro-9900

Open Pro-9900 Automatic <u>Acceptance</u> Software

Go to next page

Attention : Pro-9900 needs to wait for the rotating motor speed to stabilize before performing the vibration measurement.

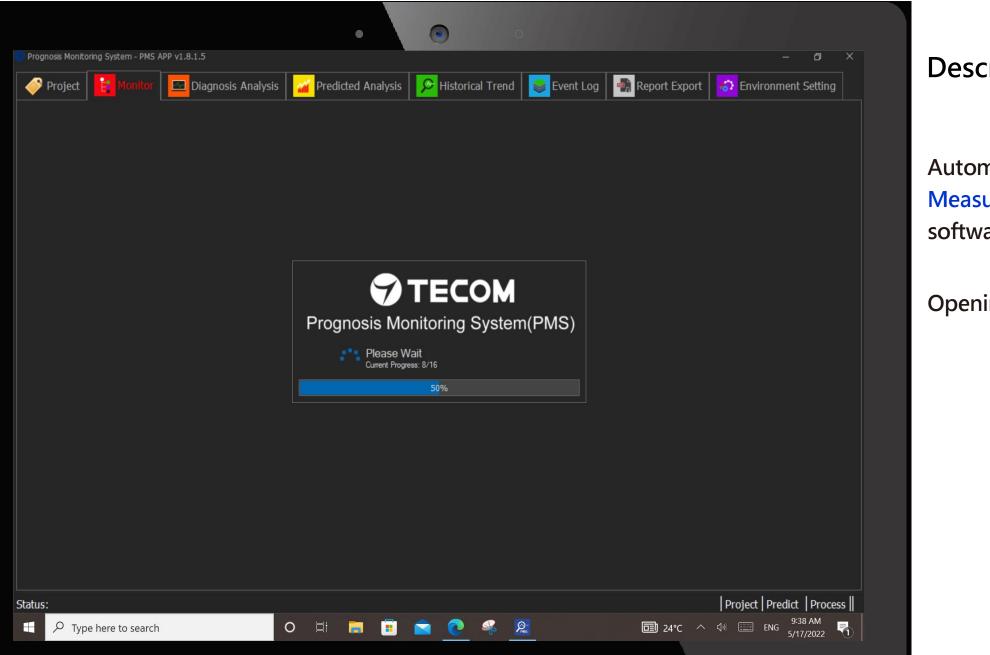
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			Open PMSApp Select wolth da	ıta CVLog f	ïle			Pr	ro-990	00					Engli	sh 🗸				
			Heatth.												Sele	ect File				
			Press the ^r Sele	ct File 1 but	tton, and	select t	he desire	ed date i	n the po	p-up dat	a file wi	indow.								
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Click according to the sequence

1. Click Open PMSApp to open the Automatic Measurement software.

Go to next page.

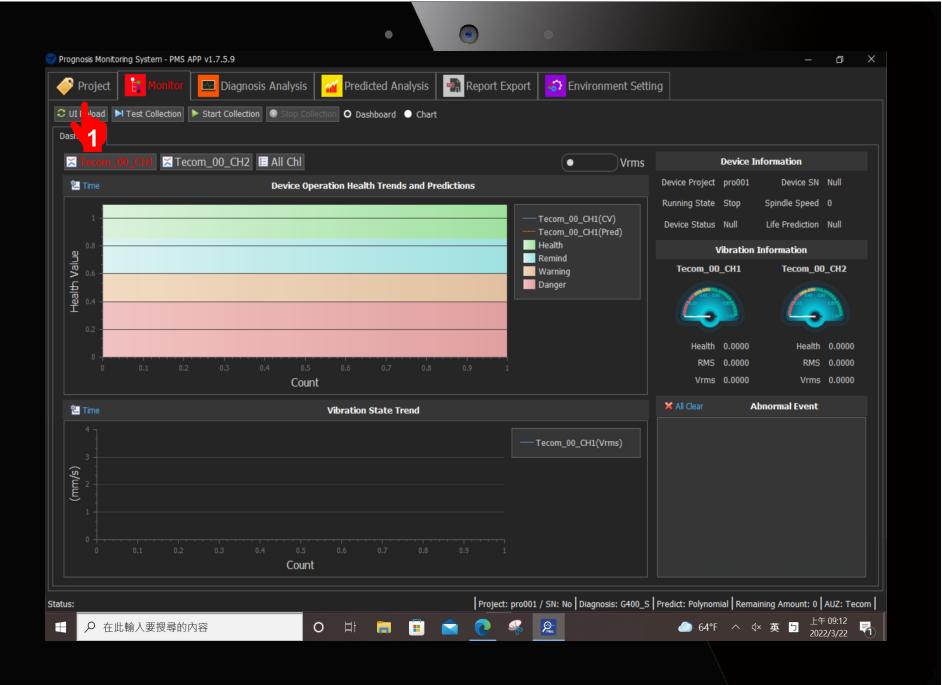
UI



Description:

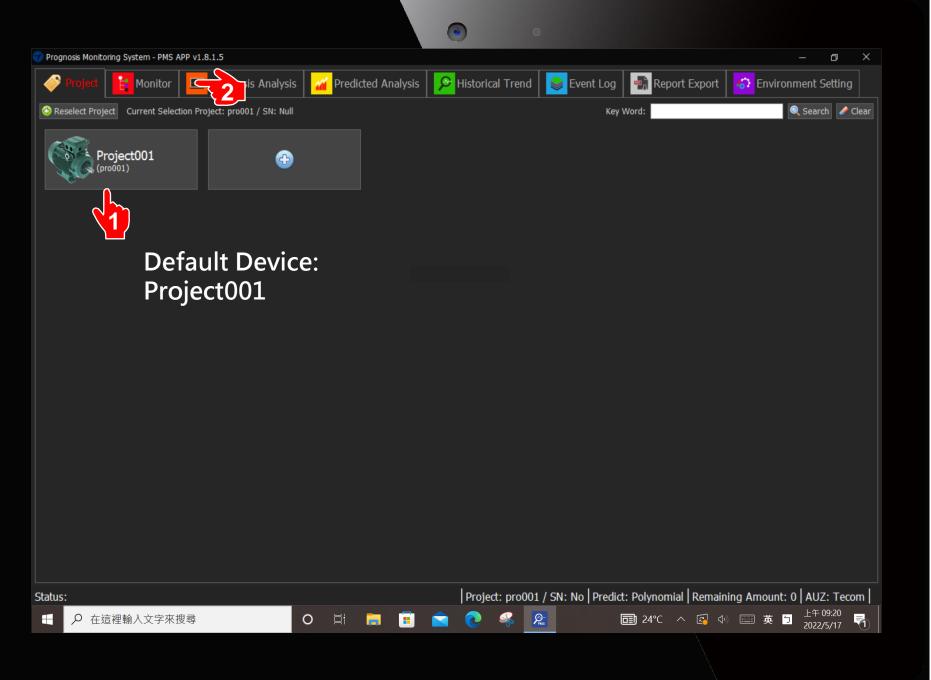
Automatic Measurement software

Opening...



Click according to the sequence

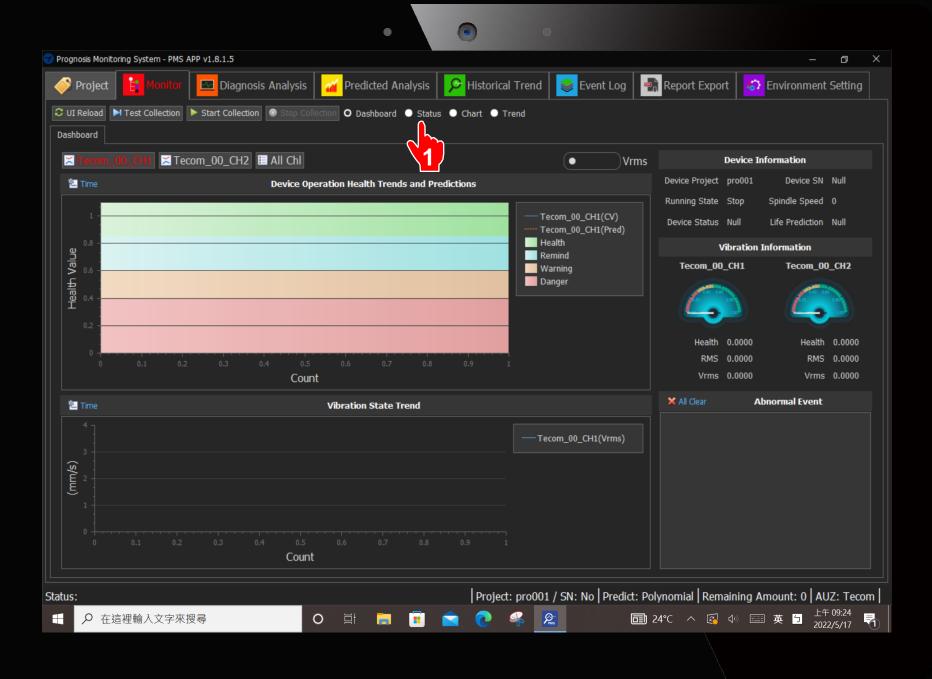
1. Click Project



Click according to the sequence

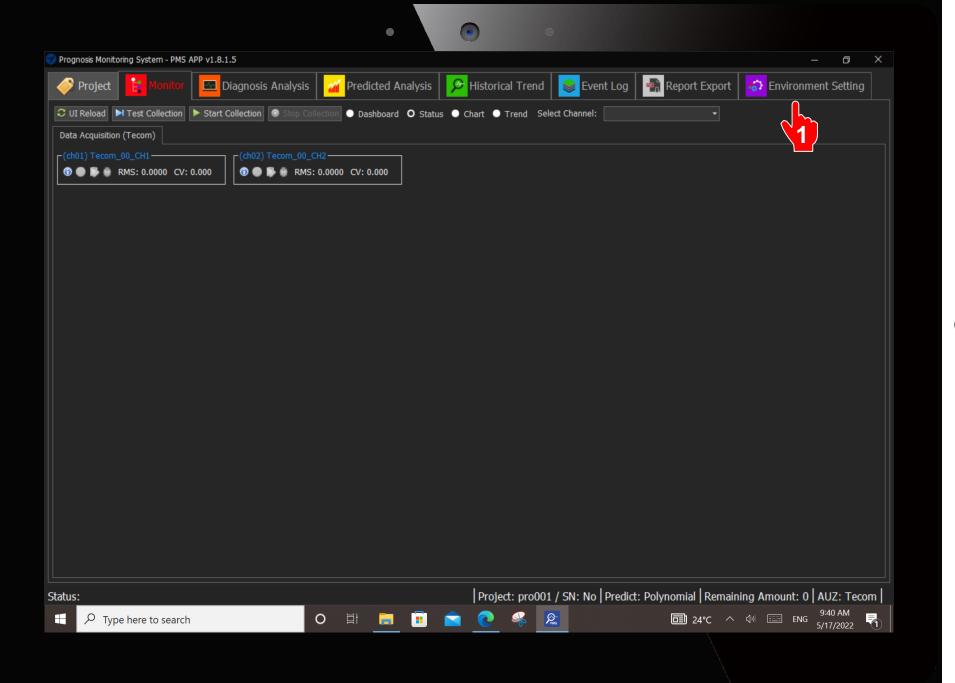
1. Click Project001

2. Click Monitor



Click according to the sequence

1. Click Status



Click according to the sequence

1. Click

Environment Setting

			•	•		
Prognosis Monitoring System - PMS A	PP v1	.8.1.5				– o ×
-			Predicted Analysis		t Log	
Project Monitor		Diagnosis Analysis	Predicted Analysis	Historical Trend	it Log 🛛 📑 Report Expor	
🕀 Add 🗙 Delete 🛛 🌈	_	💾 Save 🗧 Refresh 🥝 Auto	Add 🕀 Add 🔀 Delete 🔺 N	1ove UP 👎 Move DOWN 🗹 Updat	e	
Project			Ratabase Mapping			
Data Acquisition (Tecom)		(ch01) Tecom_00_CH1 (ch02) Tecom_00_CH2	Physical Device Name	ecom_00 🔹	Database Device Name: dev	/001
Channel		(Physical Channel Name: T	ecom_00_CH1 •	Database Channel Name: chû	01
Event			L Diagnosis Parameter			
System			PMS Type		Rotor	
			Vibration Standard	Class I (<15kW) V	Number of Rotors	0
			Model Type	A v	Gear	
			Diagnosis		Reduction Ratio	0.00
			Threshold(Diagnosis)	1	— Number of Input Shaft Gears	0.00
			Threshold(Vrms)	0.00	Fp in RPM	0.00
			Sample Rate	16000 🚔	Bearing	Bearing Library
			Sample Length	8192 ~	Bearing Information (mm or	inch) Bearing Free Parcy
			Cutoff Frequency		Contact Angle 0.000	÷
			Low Frequency	1000	Pitch Diameter 0.001	▲ ▼
			High Frequency	5120	Number of Balls <mark>0</mark>	
			Mechanical Properties		Ball Diameter 0.000	
			Fa(Spindle) in RPM	1800.00		
atus:				Project: pro001 / SN: No	Predict: Polynomial Rema	aining Amount: 0 AUZ: Tecom
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Direction : Click according to the sequence

- 1. Click Channel
- 2. Click (ch01)...
- 3. Select Vibration Standard

(Motor kW Pull-down Menu) Information can be obtained from Motor Nameplate.

4. Fill in the Motor Fa (Spindle)

> (Obtained from Motor Nameplate)

- 5. Check Bearing Library. Fill in the bearing number in the pop-up window (Obtained from Motor Nameplate)
- 6. Click Monitor

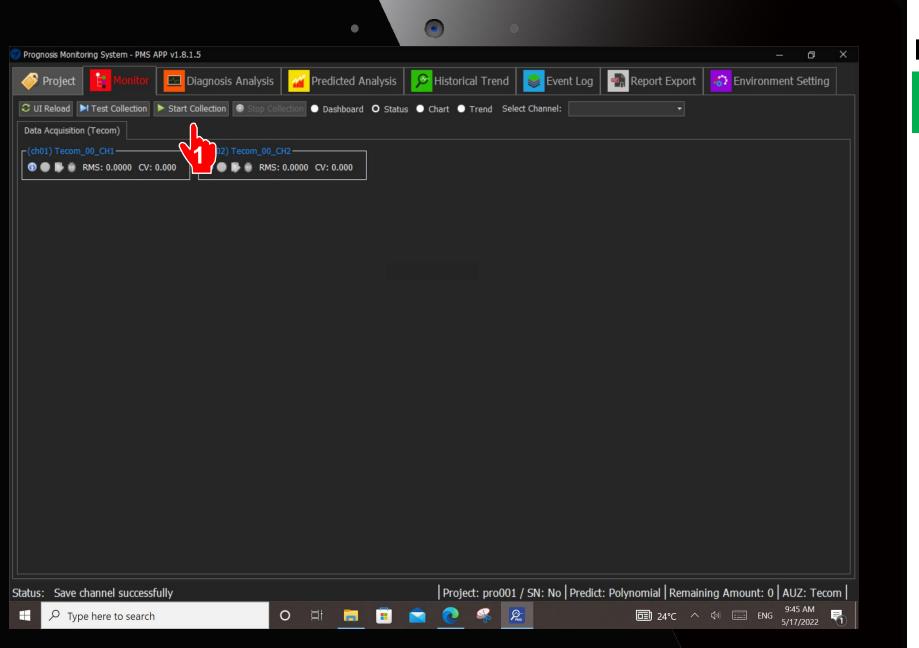
Go to next page

9

Attention :

If the acceptance equipment is a Gear Motor, there are three parameters that need to be filled in the column of the gear. These three parameters need to be obtained from the original gear manufacturer before acceptance.

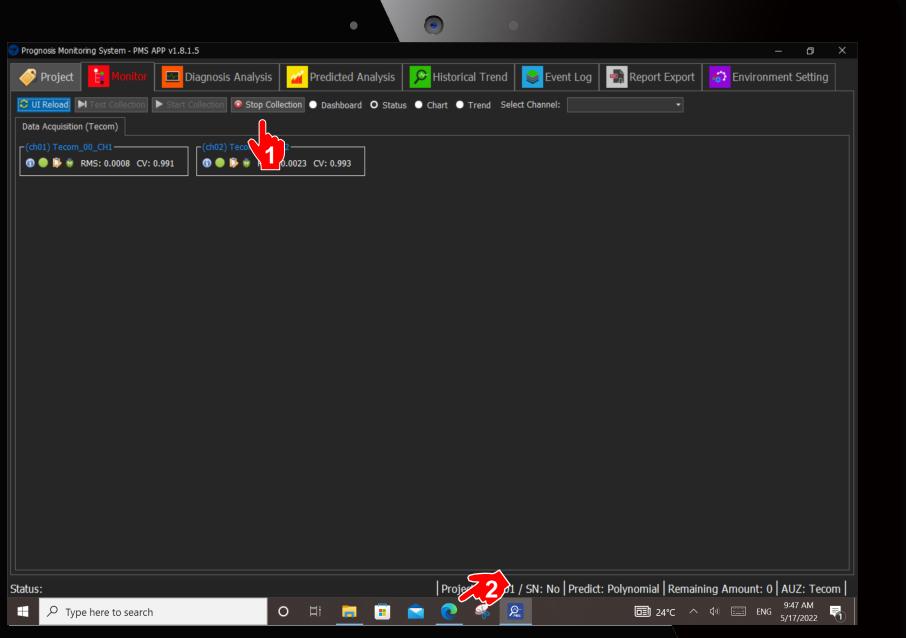
Gear		
Reduction Ratio	0.00	•
Number of Input Shaft Gears	0.00	•
Fp in RPM	0.00	•



Click according to the sequence

1. Click Start

Collection

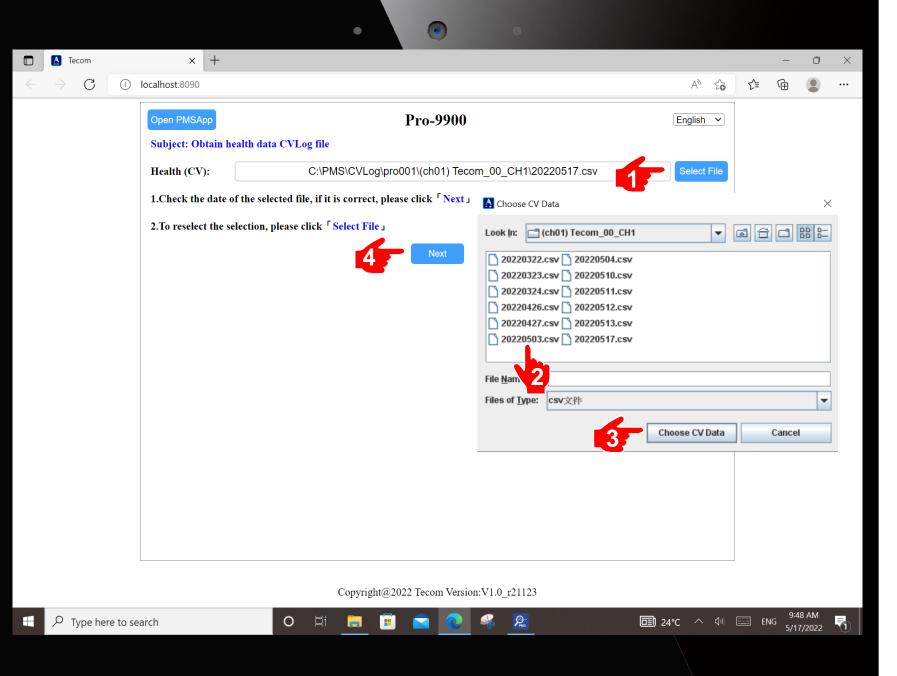


Click according to the sequence

- Click Stop
 Collection
 after 1 minute.
- 2. Click the Web Browser at the

bottom.

Go back to Homepage



Click according to the sequence

- Click Select File. Another window will be popped up.
 Click Today's csv file
 Click Choose CV Data. Window will be closed.
- 4. Click Next

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	Open PMSApp	Pro-9900	English	~							
	Obtain 17 measurement data DiagnosisLog files										
	Measurement Data:	C:\PMS\DiagnosisLog\pro001\(ch01) Tecom_00_CH1\20220517.csv	Select	File							
	1.Check the date of the selected file, if it is correct, please click [「] Next」										
	2.To redo the selection	on, click ^r Select File J or click ^r Previous J to redo select									
		Previous									
		Jan 1996									
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Click according to the sequence

1. Click Next

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Open PMSApp		Pro-9900	English 🗸				
Obtain equipment	health and 17 measurement resu	ults					
Data Amount: 83	Compute Mode	2022-05-17 09:47:25.039	~				
Device Health:	0.99428 H9 Normal Equ	ipment is healthy and can be used with peace of mind, regular i	nspection				
Vibration Vrms:	0.01308mm/s						
Measurement Score:		Motor Spindle Project					
	Unbalance : 0.000	Normal					
	Misalignment : 0.000	Normal					
	Looseness: 0.000	Normal					
	Bent Shaft: 0.000	Normal					
		Bearing Project					
	Inner Race: 0.007	Normal					
	Outer Race : 0.006	Normal					
	Roller : 0.007	Normal					
	Oil Whirl: 0.000	Normal					
	Oil Whip: 0.000	Normal	Scroll Dow	n			
		Gear Project					
	Gear Eccentricity: 0.000	Normal					
	Gear Misalignment : 0.000	Normal					
	Gear Broken Tooth: 0.000	Normal	•				

Click according to the sequence

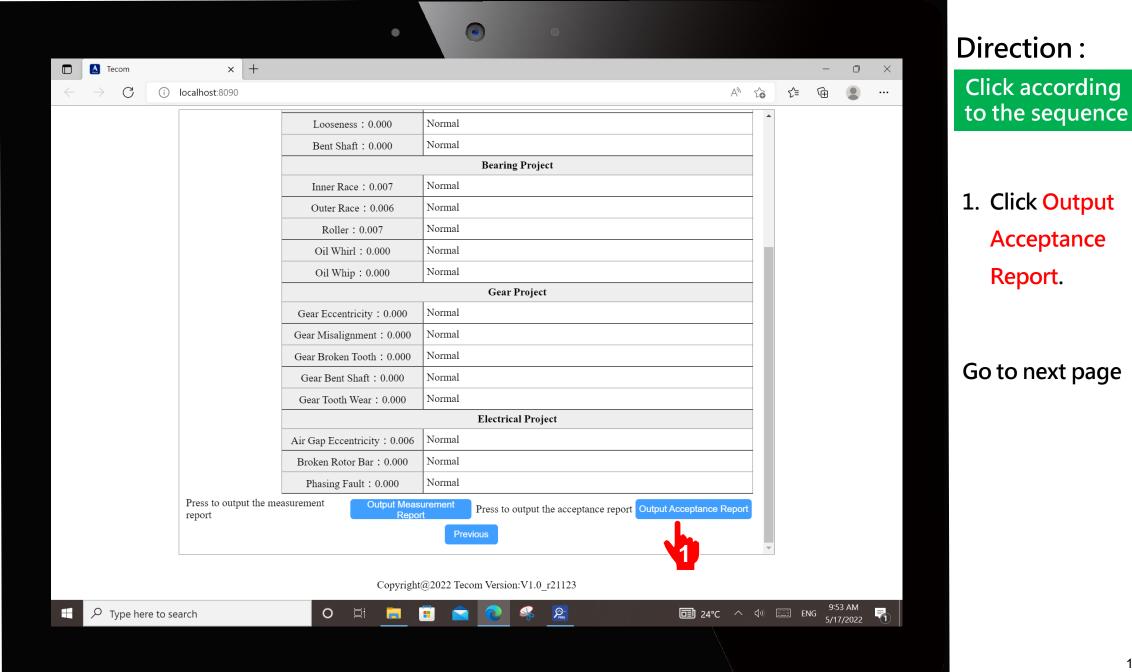
1. Scroll down

the screen.

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	Open PMSApp	1	Pro-9900	Englisl				
	Export acceptance report	1	10-9900	Ligio				
	1.Please fill in the basic informat	ion of the device or skin i	it					
	1.1 Rase III III the basic III01 mat	Device Name:	Motor1	ו				
		Device Number:	R02	-				
		Install Location:	5F					
	2.Please click ^[Export] to select	the output archive path	and fil name	-				
	Acceptance			Exp	oort			
	Report Output:							
	Previo	us		End				
					4			
		Copyright@2022	2 Tecom Version:V1.0_r21123					
	search	Copyright@2022	2 Tecom Version:V1.0_r21123	⊡ 24°C ∧	、	EN.	9:55 A G 5/17/2(

Click according to the sequence

- Click and Input Device Name, Device Number and Location.
- 2. Click Export

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\leftarrow \rightarrow C (i) localhost:8	3090				A" 20	₹_=	Ē				
Acceptance Report Acceptance data time : 2022-05-17 09:47											
			200			ta time	: 2022	-05-17	09:47		
Device Name : Motor1 Device Test result : Acceptance Rejected		Number :	R02	Install Location :	5F						
Vibration Vrms	Health (CV)	Health Index		Descriptio	n						
0.01308mm/s	0.99428	Н9	Normal health					roll	• 1		
Acceptan	ce item	Measurement data		Test resul	lt		Sc	roll	Dow		
	Unbalance	0.000	Qualified								
Motor Spindle Project	Misalignment	0.000	Qualified								
Motor Spinale Project	Looseness	0.000	Qualified								
	Bent Shaft	0.000	Qualified								
P Type here to search	O Ħ	<u> </u>		 ⊒ 24°	PC ^ ⊄୬) [EI		6 AM 7/2022			

Description :

Acceptance Report will be popped up. Scroll down to the bottom to view all the information.

		• @	•	
Tecom	× +			- 0 ×
\leftarrow \rightarrow C (i) localhost	:8090			^` ℃
	Gear Misalignment	0.000	Qualified	Downloads □ Q ··· ▲
Gear Project	Gear Broken Tooth	0.000	Qualified 2	Motor1_R02_2022-05-17 09_47_25Acceptance Report (Open file Motor1_R02_2022-05-17 09_47_25Acceptance Report (Open file
	Gear Bent Shaft	0.000	Qualified	Motor1_R02_2022-05-17 09_47_25Acceptance Report (<u>Open file</u>
	Gear Tooth Wear	0.000	Qualified	Motor1_R02_2022-05-17 09_47_25Acceptance Report.pdf Open file
	Air Gap Eccentricity	0.006	Qualified	
Electrical Project	Broken Rotor Bar	0.000	Qualified	
	Phasing Fault	0.000	Qualified	
				Acceptor : Supervisor's : Report Time : 2022/5/
	Confirm the output report, please	Export e click「Export」, when	Close finished, please clic 回首	夏 o return to the home page
Type here to search	O İİ	💼 🔋 🖻		ENG 10:08 AM 5/17/2022 ₹1

Click according to the sequence 1. Click Export PDF 2. Window popup. Either Open file or Save as....

3. Click Close The Acceptance of the motor has been done. Go back to Homepage and ready for next motor.

Attention : The Acceptance Report can be copied from Tablet to USB Flash.

Description:

- 1. For each motor returned for repair, the acceptance report can be obtained within about 5 to 10 minutes under normal operation.
- As long as the factory has motor acceptance work, Pro-9900 is a must-have tool.
- Everyone can use it. Everyone can understand it.
 Pro-9900 brings huge benefits to factory motor acceptance.

Pro-9900 Expert Mode



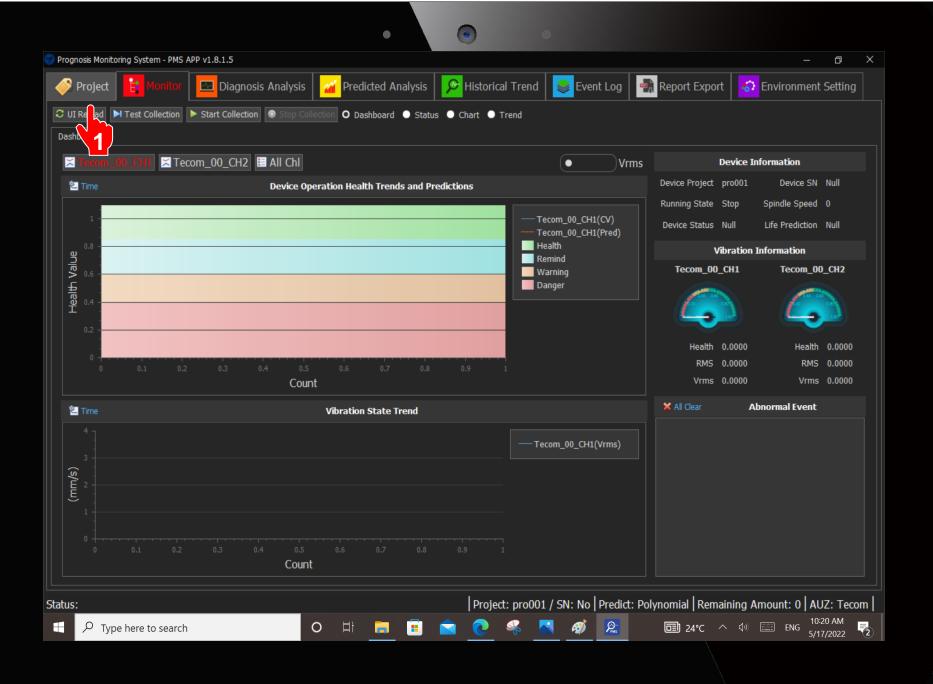
Click according to the sequence



Open Pro-9900 Expert Mode Software.

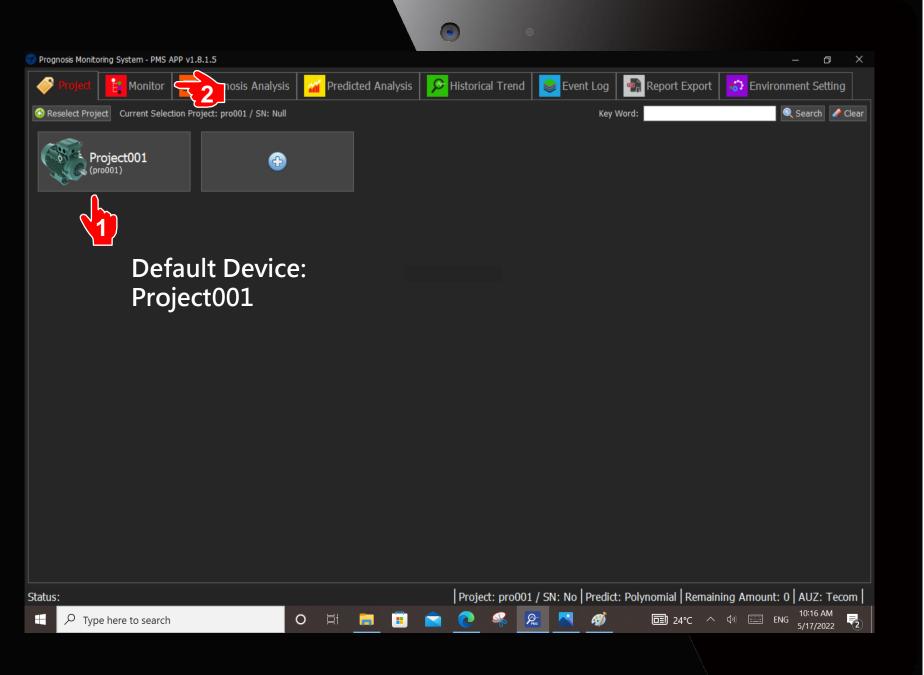
Go to next page

Attention : Pro-9900 needs to wait for the rotating motor speed to stabilize before performing the vibration measurement.



Click according to the sequence

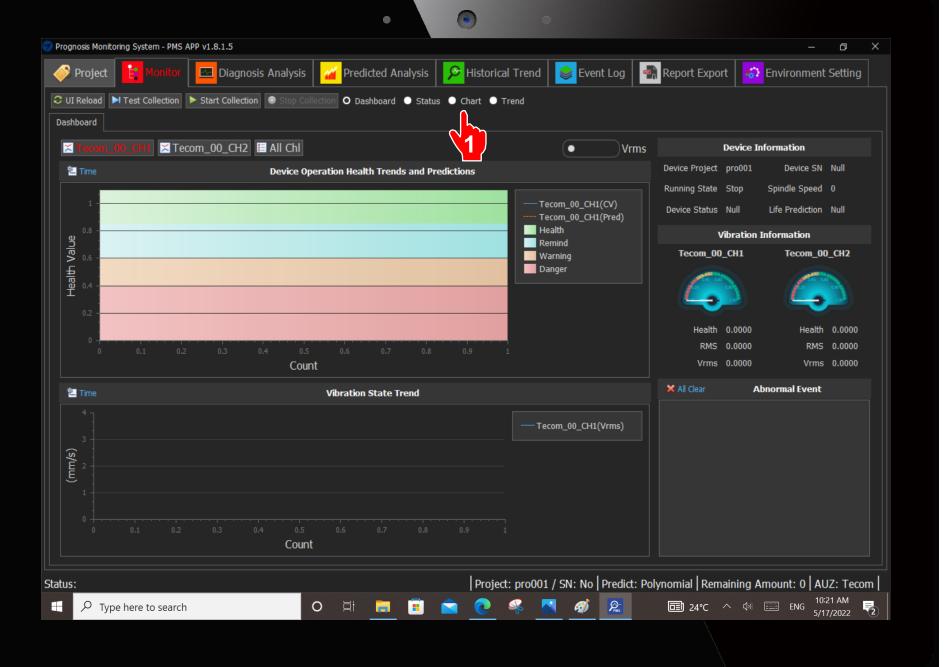
1. Click Project



Click according to the sequence

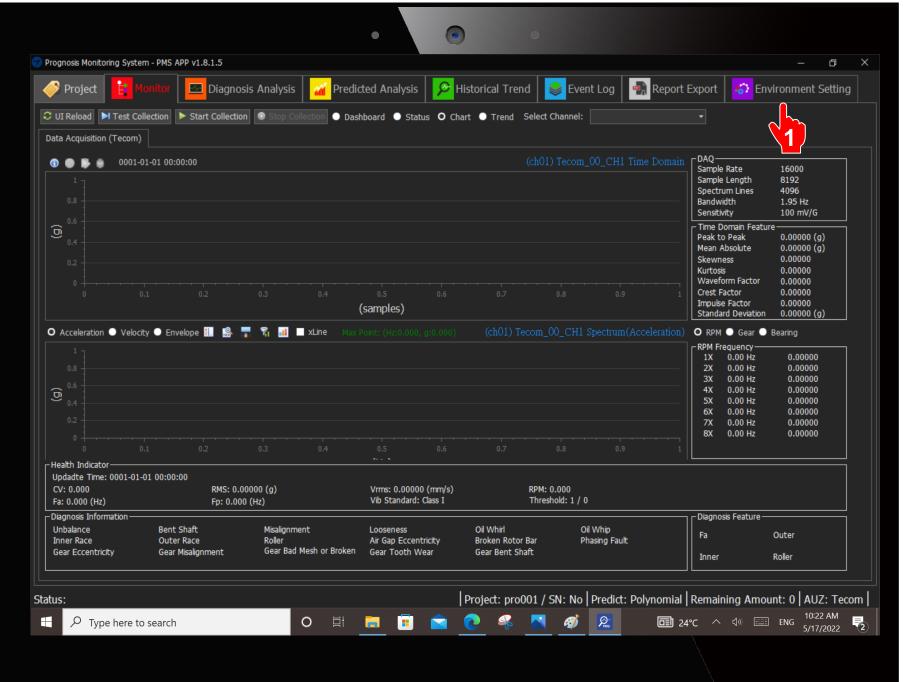
1. Click Project001

2. Click Monitor



Click according to the sequence

1. Click Chart



Click according to the sequence

1. Click Environment Setting

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Prognosis Monitoring System - PMS AF	ν v1.8.1.5		_		– ø ×
🧼 Project 🔡 Monitor	Diagnosis Analysis	Predicted Analysis	Historical Trend	📚 Event Log 🛛 🇌 Report Export 🛛 🍪	
🖲 Add 🗶 Delete 6	💾 Save 🗢 Refresh 🥝	Auto Add 🔂 Add 🔀 Delete 🔺	Move UP 🕈 Move DOWN	I 🗸 Update	
Project	Channel List	Patabase Mapping			
Data Acquisition (Tecom)	(ch01) Tecom_00_CH (ch02) Tecom_00_CH	1 Physical Device Name	Tecom_00	 Database Device Name: dev001 	
		Physical Channel Name:		✓ Database Channel Name: ch01	
Event		Diagnosis Parameter			
File					
System		PMS Type		Rotor	
		Vibration Standard	Class I (<15kW)	Vumber of Rotors 0	•
		Model Type	A	Gear	
		Diagnosis		Reduction Ratio 0.00	•
		Threshold(Diagnosis)	1	Number of Input Shaft Gears 0.00	•
		Threshold(Vrms)	0.00	Fp in RPM 0.00	Bearing Library
		Sample Rate	16000	Bearing Bearing Information (mm or inch) Bearing Information (mm or inch) Bearing Information (mm or inch)	
		Sample Length	8192		earing Fredericy
		Cutoff Frequency	1000	Contact Angle 0.000	÷
		Low Frequency	5120	Pitch Diameter 0.001 Number of Balls 0	÷
		High Frequency Mechanical Properties	5120		÷
		Fa(Spindle) in RPM	1800.00	Ball Diameter 0.000	▲
			1000.00		
			1)	
atus:			Project: pro001 /	/ SN: No Predict: Polynomial Remaining An	nount: 0 AUZ: Tecom
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Direction : Click according to the sequence

- 1. Click Channel
- 2. Click (ch01)...
- 3. Select Vibration Standard

(Motor kW Pull-down Menu) Information can be obtained from Motor Nameplate.

4. Fill in the Motor Fa (Spindle)

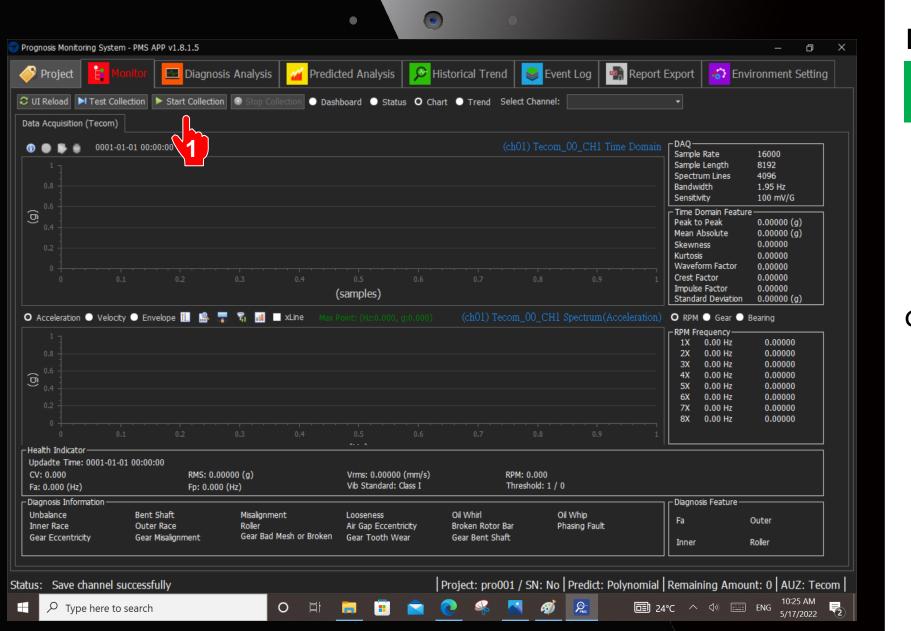
(Obtained from Motor Nameplate)

- 5. Check Bearing Library. Fill in the bearing number in the pop-up window (Obtained from Motor Nameplate)
- 6. Click Monitor

Attention :

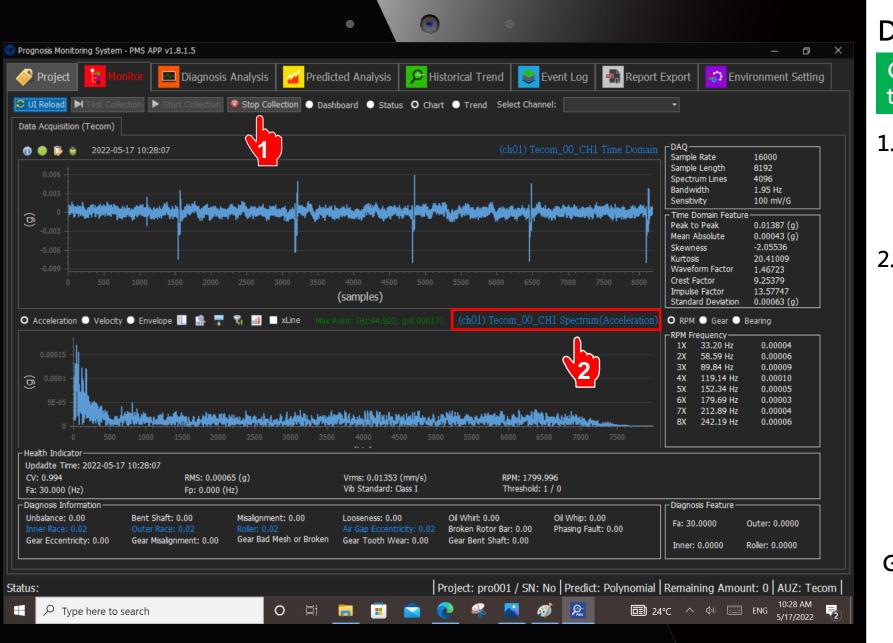
If the acceptance equipment is a Gear Motor, there are three parameters that need to be filled in the column of the gear. These three parameters need to be obtained from the original gear manufacturer before acceptance.

Gear		
Reduction Ratio	0.00	•
Number of Input Shaft Gears	0.00	•
Fp in RPM	0.00	•



Click according to the sequence

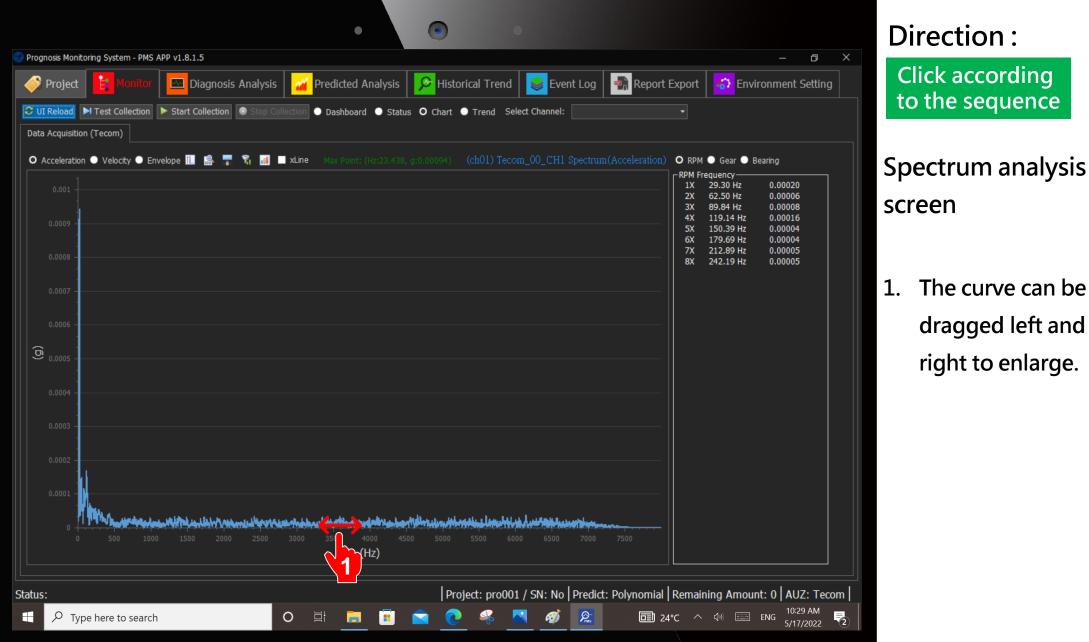
1. Click Start Collection.



Click according to the sequence

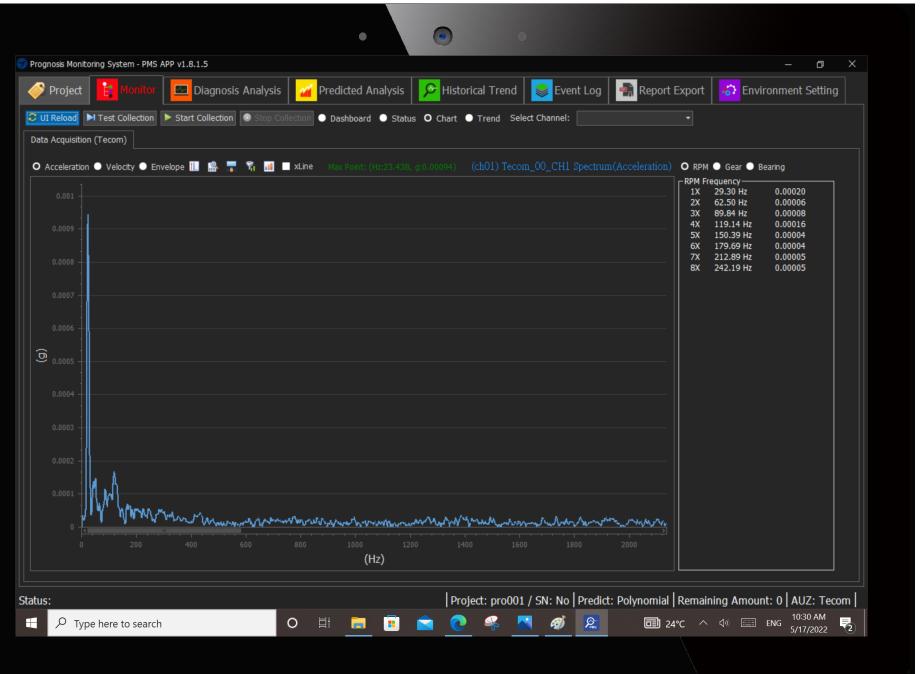
- Click Stop
 Collection after 1 minute.
- Click Spectrum (Acceleration)
 PS: Click 2 times.

Screen will be popped up.

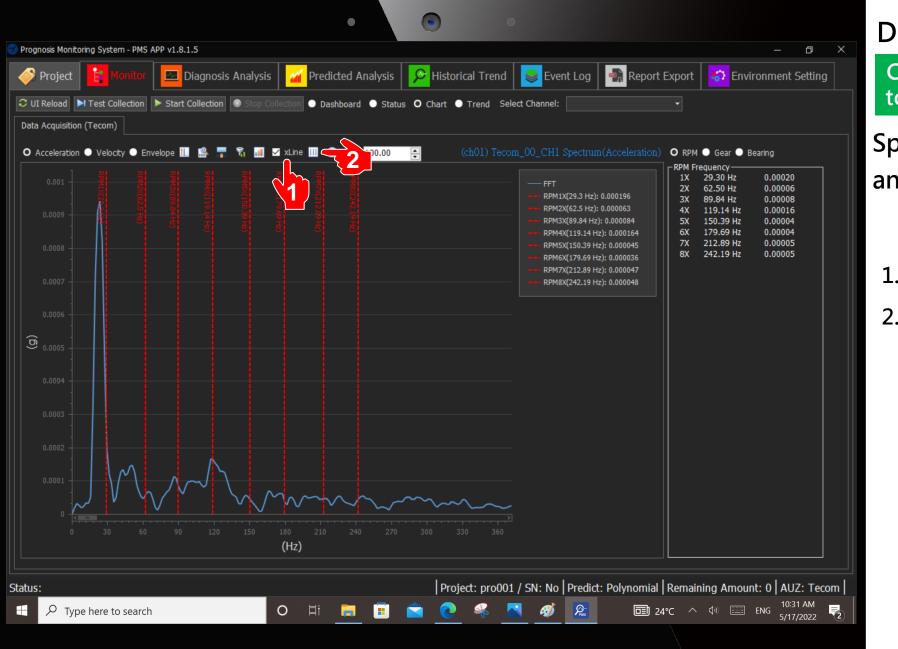


to the sequence

1. The curve can be dragged left and right to enlarge.



Spectrum analysis screen



Click according to the sequence

Spectrum analysis screen

Check XLine
 Click Multiplier
 index

Description:

- Experts should analyze and judge based on the spectrum and issue an expert report by themselves.
- 2. The expert report can be compared and verified with the Pro-9900 Automatic

Acceptance Report.