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2 安全信息

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Warranty Information:

A copy of the specific warranty terms applicable to your DEWESOFT product and replacement parts can be obtained from your local sales and service office.

Support

Please contact: DEWESOFT d.o.o. Gabrsko 11a 1420 Trbovlje SLOVENIA Tel.: +386 356 25 300 Fax: +386 356 25 301 Web: http://www.dewesoft.org The telephone hotline is available Monday to Friday between 08:00 and 16:00 CET (GMT +1:00)

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Safety symbols in the manual:

WARNING Calls attention to a procedure, practice, or condition that could cause body injury or death.

CAUTION Calls attention to a procedure, practice, or condition that could possibly cause damage to equipment or permanent loss of data.

WARNINGS

The following general safety precautions must be observed during all phases of operation, service, and repair of this product. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the product. DEWESOFT d.o.o. assumes no liability for the customer's failure to comply with these requirements.

All accessories shown in this document are available as option and will not be shipped as standard parts.

Environmental Considerations

Information about the environmental impact of the product.

Product End-of-Life Handling

Observe the following guidelines when recycling a DEWESOFT system:

System and Components Recycling

Production of these components required the extraction and use of natural resources. The substances contained in the system could be harmful to your health and to the environment if the system is improperly handled at it's end of life! Please recycle this product in an appropriate way to avoid an unnecessary pollution of the environment and to keep natural resources.



This symbol indicates that this system complies with the European Union's requirements according to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE). Please find further information about recycling on the DEWESOFT web site www.dewesoft.org

Restriction of Hazardous Substances

This product has been classified as Monitoring and Control equipment, and is outside the scope of the 2002/95/EC RoHS Directive. However we take care about our environment and the product is lead free.



Safety instructions for all DEWESOFT systems

- The DEWESOFT data acquisition systems may only be installed by experts.
- Read your manual before operating the system.
- Observe local laws when using the instrument.
- Ground the equipment: For Safety Class 1 equipment (equipment having a protective earth terminal), a non interruptible safety earth ground must be provided from the mains power source to the product input wiring terminals or supplied power cable.
- DO NOT operate the product in an explosive atmosphere or in the presence of flammable gases or fumes.
- DO NOT operate damaged equipment: Whenever it is possible that the safety protection features built into this
 product have been impaired, either through physical damage, excessive moisture, or any other reason, REMOVE
 POWER and do not use the product until safe operation can be verified by service-trained personnel. If necessary,
 return the product to DEWESOFT sales and service office for service and repair to ensure that safety features are
 maintained.
- Keep away from live circuits: Operating personnel must not remove equipment covers or shields. Procedures involving the removal of covers or shields are for use by service-trained personnel only. Under certain conditions, dangerous voltages may exist even with the equipment switched off. To avoid dangerous electrical shock, DO NOT perform procedures involving cover or shield removal unless you are qualified to do so.
- No modifications are allowed at the instrument. The fuse in the power module has to be replaced by the same type. For continued protection against fire, replace the line fuse(s) only with fuse(s) of the same voltage and current rating and type. DO NOT use repaired fuses or short-circuited fuse holder labels and print on the power module may not be removed.
- DO NOT service or adjust alone. Do not attempt internal service or adjustment unless another person, capable of rendering first aid and resuscitation, is present.
- DO NOT substitute parts or modify equipment: Because of the danger of introducing additional hazards, do not install substitute parts or perform any unauthorized modification to the product. Return the product to a DEWESOFT sales and service office for service and repair to ensure that safety features are maintained.
- Disconnect power before opening the instrument (experts only) or exchanging the fuse in the power module!
- Don't touch internal wiring!
- Don't use higher supply voltage than specified!
- Use only original plugs and cables for harnessing.
- You may not connect higher voltages than rated to any connectors.
- The power-cable and -connector serve as Power-Breaker. The cable must not exceed 10 feet, disconnect function must be possible without tools.
- Safety of the operator and the unit depend on following these rules.



3 安装

3.1 安装 Dewesoft

要安装 Dewesoft 软件, 运行 Dewesoft_FULL_7_0.exe 文件安装即可.

注意,如果之前已经安装过 Dewesoft 7, 会提示你卸载以前的版本.



你可以在控制面板的添加/删除程序里卸载软件

🐻 Add or Re	move Programs				IX
5	Currently installed programs:	Show up <u>d</u> ates	Sort by: Name		*
C <u>h</u> ange or Remove	沟 CodeGear RAD Studio 2009		Size	681,00MB	^
Programs	Conexant HDA D330 MDC V.92 Modem		Size	0,98MB	
	🕞 Corel(R) Applications				
Add New	🤤 CuteFTP 8 Professional		Size	13,40MB	
Programs	🔂 CVSNT 2.5.03.2382		Size	8,92MB	
1	😼 Dell Resource CD		Size	3,04MB	Ξ
	Dell Security Device Driver Pack		Size	48,28MB	
<u>Windows</u>	😳 Delphi 7 Second Edition		Size	251,00MB	
Components	> DEWESoft 6.5 Full Installer Build(0740)		Size	81,90MB	
	🔥 DEWESoft 7.0 Beta		Size	<u>26,19MB</u>	
Set Program	Click here for support information.		Used	<u>rarely</u>	
Access and Defaults			Last Used On	22.5.2009	
	To change this program or remove it from your computer, clic	ck Change or Remove.	Change	Remove	
	🚊 DT-Open Layers for Win32 (OEM)		Size	11,48MB	11
	e.commander V1.4.6		Size	118,00MB	
	📲 eDrawings 2008		Size	71,62MB	
	SET NOD32 Antivirus		Size	42,51MB	
	C Ethereal 0.99.0		Size	52.84MB	~

卸载以后,软件就正确可以安装了



第一个界面是提示你安装的内容和版本,请点击 Next.



下一个界面是版权的界面. 为了安装软件,你需要选择 "I accept the terms of license agreement"

DEWESoft 7.0 Full Installer Build(091211) RC34
License Agreement Please read the following license agreement carefully.
END-USER LICENSE AGREEMENT FOR DEWESOFT SOFTWARE
IMPORTANT - READ CAREFULLY: This End-User License Agreement (hereinafter: EULA) is a legal agreement between you (either an individual or a single entity) and DEWESoft d.o.o. for the DEWESoft Software that accompanies this EULA , which includes computer software and may include associated media, printed materials, "online" or electronic documentation (hereinafter: DEWESoft software).
YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA BY INSTALLING,
 I accept the terms of the license agreement ☐ I do not accept the terms of the license agreement
InstallShield <u>< B</u> ack <u>N</u> ext > Cancel



下一个界面是非常重要的,关系到软件的性能,这里有俩个选项:

DEWESoft 7.0 Full Installer Build(091211) RC3-	4 🛛 🛛
Setup Type Select the setup type that best suits your needs.	
Set the type of setup you prefer to install DEWESoft 7.0 . DEWESoft Measurement Unit Windows Standard	Description DEWESoft Measurement Unit
InstallShield	k <u>N</u> ext > Cancel

- Dewesoft measurementUnit 测量单元:为了保证系统的高性能和数据的安全,将 DEWESOST7.0 安 装在硬盘的第二个分区或者第二块硬盘上,数据也会存储在这个分区或第二个硬盘上,跟系统盘分 开,因为系统盘随着时间推移会产生一些碎片这样会影响数据存储的速度.因此建议安装在 D:/Dewesoft7 目录,当然也可以是其他目录.如果你格式化系统的话,Dewesoft 不用重新安装,但设 备的驱动程序则需要重新安装.
- 2) Windows 标准安装: 这样软件会安装在 C 盘下的 program files 文件夹,数据存储在 My documents 文件夹.



下一步是选择安装在哪个目录,这里是安装在 c:\Dewesoft7,因为没有其他的硬盘或分区,当然也可以安装 在其他目录

DEWESoft 7.0 Full Installer Build(091211) RC34
Choose Destination Location Select folder where setup will install files.
Setup will install DEWESoft 7.0 RC34 in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder C:\DEWESoft7\ Browse
InstallShield <u>Sack Next</u> Cancel

下一步是提示输入用户名和所在地.这对于证书来说也很重要,如果是按照 Windows 的标准方式安装,还 会有一个选项是只让一个用户或所有用户使用这个软件。如果选择所有用户的话,测试熟虑和配置将会存 储在共享文件夹 *Shared documents*, 否则的话会存储在我的文档 in *My documents*.

DEWESoft 7.0 Full Installer Build(091211) RC34
Customer Information Image: Customer Information Please enter your information. Image: Customer Information
User Name:
Jure Knez
User L <u>o</u> cation:
Dewesoft
Install this application for:
⊙ Anyone who uses this computer (all users)
Only for <u>m</u> e (Jure Knez)
InstallShield
< <u>B</u> ack <u>N</u> ext> Cancel



下一步是提示你是否安装 NET addons.如果系统是做网络采集应用的话,一定要选择这个选项.

DEWESoft 7.0 Full Installer Build(091211) RC:	34 🛛 🔀
Select Features Select the options you want to install.	
Select which options to install for DEWESoft.	
■ DEWESoft Option NET addons	Description Installs option NET addons, for remote control or cascading several machines via ethernet.
InstallShield	Select All Clear All
<u>< B</u> a	ick <u>N</u> ext > Cancel

下一步选择你所需要使用的语言

DEWESoft 7.0 Full Installer Build(091211)	RC34 🛛 🔀	
Select Features Select the options you want to install.		
Select your language preference for DEWESoft.	● Description This will set DEWESoft to use language English(internal default), and sets the CharacterSet to Standard(Default). ✓ ▲ Next > Cancel	



最后,确认这些选项.点击 Install 开始安装.

DEWESoft 7.0 Full Installer Build(091211) RC34
Ready to Install the Program The wizard is ready to begin installation.
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield <u>K</u> ack <u>Install</u> Cancel

一部分的安装时有关 USB 设备的. 这取决于您的计算机和操作系统,如果您没有 USB 接口的测试设备,这 就无关紧要,如果是 USB 接口的测试设备,安装完软件还不能识别设备的话就需要手动安装设备的驱动程序.

DEWEUSB2 driver installation	
Installing DEWEUSB2 drivers Copying INF file done Copying driver file done Copying installation file done Updating plugged USB devices on devices plugged Searching for unplugged USB devices Installation finished!	Close

安装完毕,你可能会被提示重启计算机.重启后安装完成.





3.2 硬件设置

安装完成后,打开软件首先要进行硬件设置和软件注册,如果软件只是用来查看和浏览测试数据的话,这一步就没有必要.

运行 Dewesoft, 到 System-Hardware setup 来选择你的测试设备.这取决于您使用什么样的设备



不同的测试系统差别还是比较大的. 让我们来看最简单的 – Dewe43.

在这个例子里需要选择 Dewesoft USB,这是提示 Card FOUND 说明硬件设置正确,这时,注册 Registration 标签就会变红提示您软件需要注册. 您也可以到 <u>www.dewesoft.org</u> 这个网站申请 30 天的试用版 本

🛆 Hardware setup	
Analog CAN GPS Vide	o Math Timing Alarms & Events Analog out NET Plugins Registration
Analog device	Amplifiers
DEWESoft USB	▼ ?
Card FOUND	Onboard amplifier MSI adapters/TEDS sensors
	Deutsceft kardusza
	DEWE-43 SN000002
	Max. sampling rate: 200000 Firmware version: 2.5.0.16 AI channels: 8 AI resolution: 24 bits DI channels: 24 CNT channels: 8
Registration status not supported	OK

请参考软件和硬件使用手册来进行测试设备的设置,您随时都可以增加一个视频 – 你可以使用任何支持 DirectX 的摄像头.



3.3 注册

当你购买 Dewesoft 后, 你会得到一个注册号证书, 如下图, 它包括软件注册号、序列号和软件的插件, 选项 等.

重要:

在注册之前,测试设备的硬件一定要选择正确,否则注册会无效.





在硬件设置里输入注册号 License key:

🔺 Hardware setup
Analog CAN GP5 Video Math Timing Alarms & Events Analog out NET Plugins Registration
User name User location Reference number (optional) Device number (optional)
Jure Knez Dewesoft
Enter new license
DW7-C6WP-G49T-CN51 Register online Register offline Cancel
Warning: License will be valid ONLY for the measurement hardware (or computer MAC) and options which are chosen at this moment. Please make sure that you choose all the devices, options and plugins which you will use. Software will be registered to the following hardware Computer MAC address (3 keys) AJD (1 key) CAN (0 keys)
Registration status
not supported OK Cancel

注册页会显示这个注册号对应的硬件.软件可以在计算机,例如工作站或测试仪器上运行,这个注册号和 计算机的_MAC 地址绑定,

- 特殊的测试硬件(例如 AD 卡,CAN 卡,GPS_接收器_或其他设备).软件会和测试硬件的序列号帮定
- 你可以在任意的计算机上使用软件(例如 USB 接口的数据采集仪,你可以使用任意一台电脑运行软件来操作它),但是不能改变测试硬件

在线注册步骤

要在线注册 DEWESoft 7 software online,请将设备连接到互联网 internet , 网址 <u>www.dewesoft.org</u>. 点击在 线书册 "Register online" 按钮.

离线注册步骤

如果你的测试仪器不能连接到互联网,请使用可以上网的计算机访问 http://www.dewesoft.org/registration 这个网址来完成注册,在这个网页注册完成后,你可以得到注册文件,那这个注册文件拷贝到测试仪器指定的怒路即可,(在我们的演示里文件是 DW7_C6WP_G49T_CNS1.lic),目录是System/V7_0 文件夹(例如 D:\Dewesoft\System\V7_0)。.



软件成功注册后,屏幕显示如下:

🛆 Hardware se	etup									
Analog CAN	GPS Vi	deo Math	Timing A	larms & Events	Analog out	NET	Plugins F	egistration	١	
User name		User l	ocation		Reference	number	(optional)	Dev	ice number (opti	onal)
Your name		Your lo	ocation							
Existing license(s	5)									
Create	Used	License k	æу		Software vers	ion and c	ptions		Status	
	🔶 DW	/7-C6WP-G49T	-CNS1	PROF; Options	CAN				Valid	
Delete										
Update										
Registration statu	IS									
- KOI									ок	Cancel

如果您有其他的设备

点击 Ok 离开硬件设置界面 Hardware setup.

软件,硬件都设置成功后.现在我们开始第一次测量.



4 第一次测量

4.1 设置系统

硬件配置好以后,我们来到采集 Acquisition –通道设置 Ch. Setup. 这里有我们所有通道的列表.

	Acquisition	Analysis	DEWESoft 7.0 RC	38 etup Measure						DEWE-43	Help	- 🗆 🗙
Store	Save	Save as	File details Storing	Analog Counter Math	Ø Brake Test							
Dynami 5000 (Hz/ch)	c acquisition rate Fin 21	e aq. span: 00 Hz	External clock Start on external trigger									
SLOT	ON/OFF 🖴 C	NAM	E	AMPLIFIER (000)	3	PHYSICAL VALUES		AL 🖺	SETUP			
0	Used _{Store}	AI 0	43-V 10 V; 50 kHz	SN: DEWE BOS/	0 - 	1	0,018 V 10 Zei	O uto	Set ch. 0			
1	Unused	AI 1	43-V 10 V; 50 kHz	SN: DEWE BOS/	1 -		-0,219 V 10 Zer	Outo O	Set ch. 1			
2	Unused	AI 2	43-V 10 V; 50 kHz	SN: DEWE BOS/	2 -	1	-0,161 V 10 Zer	O nto	Set ch. 2			
3	Unused	AI 3	43-V 10 V; 50 kHz	SN: DEWE BOS/	3 -	1	-0,015 V Zer	o Mato	Set ch. 3			
4	Unused	AI 4	43-V 10 V; 50 kHz	SN: DEWE BOS/	4 -		-0,013 V 10 Zer	o Quito	Set ch. 4			
5	Unused	AI 5	43-V 10 V; 50 kHz	SN: DEWE BOS/	5 -	1	0,018 V 10 Zer	o o	Set ch. 5			
6	Unused	AI 6	43-V 10 V; 50 kHz	SN: DEWE BOS/	6 - -10		-0,048 V 10 Zer	o O	Set ch. 6			
7	Unused	AI 7	43-V 10 V; 50 kHz	SN: DEWE BOS/	7 -		-0,037 V Zei	o Quto	Set ch. 7			
		-										

第一个通道连接的是应变传感器. 当点击设置通道零 Set ch. 按钮, 就会出现一个设置界面. 我们选择桥路 模式 bridge mode,量程选择 20 mV/V.

🔺 Channel setup fo	r channel O				
Channel settings		43-V SNr:DEWE	BO\$/0		2
General Sensors		General Info			
Channel name	41.0	Measurement	Bridge	~	
Charliermanie		Range	20	~	mV/V
Lloite	mV/V	Excitation	5	~	v .
Color	,.	Excitat	ion voltage dener	nds on connect	tion
		Balance sensor	Balance amplifier		
Min value Auto	Max value Auto		,		
ومعتماه معادم بالاستعامة					
Sample race ulviuer	т 🔽 Скр 💌				
Scaling	nation Duidus ast			_	
by two points by it	Bridge car	Ing	out value	Scaled v	alue
💿 Scale (k fac	tor)				
 Sensitivity 			20 m¥/¥	— 20 m¥/¥	
1	mV/V / mV/V	3,66	i7 m¥∕¥	3,667 m	nV∕V
Offset (n factor)		3,6 3.66	67 m¥/¥ i6 m¥/¥ —	— 3,667 m ⁻ — 3.666 n	V/V V/V
0	mV/V	-,			Black size
Set zero			20 m/ / /	20 mV/u	BIOCK SIZE
5002010			-201114/4	-201114/4	015
Output = k	* Input value + n		Average	AC RMS	Min / Max
		_			
<< >>				Qk	



DEWESOFT 7

因为我要测量重量,因此在单位 Units 部分输入 N 为单位,,来到俩点校准法 Scaling by two points,去掉负载,点击根据平均值校准 Calibrate from average 得到第一个点的电压值,这会消除偏置.现在我们加一个 5 kg 的负载,输入 5 kg 作为第二个点的参考值,点击 Calibrate from average 得到第二个点的电压值.这样就可以得到换算系数.

A Channel setup fo	r channel 0				
Channel settings		43-V SNr:DEWE	BOS/O		2
General Sensors		General Info			
Channel name	AI 0	Measurement	Bridge	~	
	-	Range	20	*	mV/V
Units	kg	Excitation	5	~	v
Color		Excitati	ion voltage de	pends on connec	tion
		Balance sensor	Balance amplifi	er	
Min value Auto	Max value Auto				
Sample rate divider	1 V Skip V				
Scaling					
by two points by fu	unction Bridge cal	Tee		Castada	
First point	Second point	IUD	ut value	Scaled ¥	aiue
			20 m¥/¥ —		
3,6662	4,6752 mV/V	2.55	· · · · · · · · · · · · · · · · · · ·	0.0141	
equals	equals	3,66	86 m¥/¥ –		g J
0	5 kg	3,668	11 mV/V -	— 0,009 k	g
Calibrate	Calibrate				Block size
from average	from average		-20 m¥/¥ —	-117,3 kg	0.1 s
from RMS	from RMS				
		L	Average		Min / Max
					Capcel

这告诉你如何手动校准.如果使用智能传感器(带 TEDS).一个很好的例子就是我们的用来测量温度的智能转换头 MSI-THERM.只要把传感器连接好,换算系数就会自动生成。.

SLOT	ON/OFF	🗉 с	NAME	AMPLIFIER (007)	8	PHYSICAL VALUES		CAL	=	SETUP
	Ucod	ore	Load	43-V	SN: DEWE BOS/0	1 -	0,003 kg	7010	2	Satish 0
Ů	U Used	Ste		20 mV/V; Exc 5V		-117,3	80,94	zero	2	Sec un. o
	Ucod	ore	Temp	MSI-BR-TH-K (43-V)	SN: 307513	-	20,87 °C	7010	2	Catch 1
1	oseu	Ste		-200 1370 °C 10 Hz		-200	1370	zero	2	Secut. I
			AT 2	42.V	SN: DEWE BOSIZ		-0.157 V			

现在我们选择俩个通道来测量温度,请注意我已经更改了通道的名字并且把通道改为 Used.



如果我有数字型的传感器,例如解码器,我们需要把它连接到数字、解码器 digital/counter 输入.我有一个转速解码器,我就需要在计数器 *Counter* 部分来做通道设置.

Store	Save	e Save as File detai	ls Storing	Analog Counter	Math Bra	🥔 ske Test
ON/OFF	С	NAME		VALUE		SETUP
CNTO	 .	Event counting mode				
Unused		CNTO	493		Events	
Unused		CNTO/INO	1		Digital	Set ch.
Unused		CNTO/IN1	1		Digital	CIVIO
Unused		CNT0/IN2	0		Digital	
CNT1	in a	Event counting mode				

通过点击 Set ch. CNTO 按钮来进行通道设置. 解码器的设置非常简单.只需要在基本应用 Basic application 选择 Sensor 然后在传感器类型 Sensor type 选择 Encoder-360.

Channel setu	p for channel CNTO										X
Basic settings		Hardware setting	IS				Sensor s	ettings			
Basic application Sensor (encod	ler, CDM, tacho) 🛛 👻	Reset	Reset on start measure off	~			Encode	er pulses 360			
Sensor type Encoder-360	v)					Encode	r zero		▼	
W ite	Signa	al CNT_INO al B CNT_IN1	v Dinv								
	NAME	MEASUREMENT	RAW VALUE		* SCALE	OFFSET	MIN	SCALED VALUE	UNIT	MAX	~
Unused	CNT0/Angle	-	0 revs	-	1	0	-10000	(Revs	10000	Í
Unused	CNT0/Frequency	-	0 RPM	-	1	0	0	. (RPM	1	
Unused	CNT0/Raw_Count	-	0	_	1	0	0	1 (ı -	1	
Unused	CNTO/Raw_EdgeSep	-	0		1	0	0) -	1	
Housed	CNTO/INO	-	0		1	0	0	ີ () -	1	~
								Qk		<u>C</u> ancel	

然后我们打开通道 CNTO/Angle 和 CNTO/Frequency,现在我们可以点击 Ok 离开设置界面



DEWESOFT 7

软件最大的一个特点式可以把同步的视频数据存储进来.现在我们就是用笔记本电脑本身的摄像头,请注意我需要在硬件设置 Hardware setup 里把它打开.

	Acquisitio	n Analysis	DEWES Setup fi	oft 7.0 Ri	C38 setup Mea	sure				
Store	Save	Save as	File details	Storing	Analog	() Counter	Video	G G Math	Ø Brake Test	
CAMER	RA OPTIONS	5								
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4.2 采集和存储数据

I通过点击 Measure 按钮进行测量.

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	Store	Dause	Stop	Ereeze	[255] Overviet	w Scor	e Rec	weighter and an and a second s	FET	
				Load [kg]	ACT	Temp [°C]	ACT	.order		
	Control pro	perties	-	- D	011	5	רפו			

我设计了一个测试界面包含了象示波器 Scope,记录仪 Recorder 或频谱分析 FFT, 我们可以点击 Design 按钮 来自己设计或修改这些.我可以增加一些数码管 Meters, 记录仪 recorder, 频谱分析 FFT 和视频在一个显示界 面,这样我可以更好的观察各个通道的数据.

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	[64] Board Or		M			



现在我们可以点击存储 Store 按钮来存储数据,当采集到足够的数据时,点击停止 Stop 按钮停止.



4.3 数据分析和后处理

现在我们可以看一下我们采集的数据. 通过点击分析 Analysis 按钮可以看到我们最后一次存储的数据,我们可以通过移动黄色的光标来查看任意时刻的数据,或者点击 Play 来回访数据,或者 faster/slower 来控制回访速度.



一个最大的优势就是 Dewesoft 会提供免费得仅用于分析的版本,这样你就可以把数据提供给你的同事或客户. 他们可以下载 Dewesoft 软件来产看数据或进行后处理.

我们也可以通过点击输出 Export 按钮把数据输出成各种不同的格式. 我们也可以点击顶部的打印 Print 按钮 打印数据.

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我们还可以做更多的事情.所有的数学功能我们既可以在线做也可以通过点击 Offline math 按钮进行后处理. 下面的例子是针对我们采集的数据做一个高通和低通滤波.

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000		IIR Filter	Butterwort	n, high pass t	filter, Order: 6	, FI: 50					
Urrine		Load/AC				Waiting	calculation			Set	up

增加滤波器,设置所选通道的滤波器参数,设置完成会有等待运算 Waiting calculation 的提示.

回到回顾 Review 模式,这时 offline Math 按钮转变为重新运算 Recalculate.



如果文件比较大的话,运算的时间会比较长。我可以放大一段我干兴趣的数据,并且只针对这一段数据进行运算.我又增加了来个记录仪 recorders 来显示滤波后的数据

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通过这种方法我们可以对已存储的数据做进一步的分析.下一步是查看 Dewesoft 应用指南来学学习软件更多的功能.

