PoolLAB 1.0

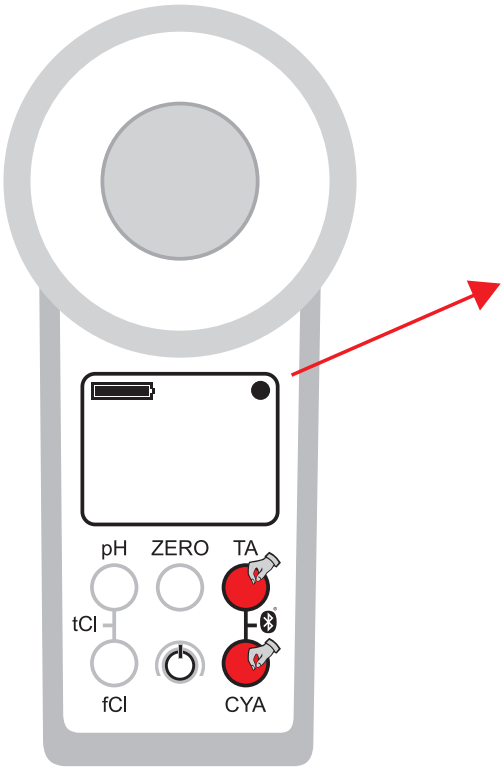
User Manual

使用手册

www. poollab. net

V13

Software / App 软件/手机应用



● 蓝牙打开
○ 蓝牙关闭

同时按下TA键和CYA键
打开或关闭蓝牙功能

打开手机浏览器扫描二
维码下载安卓手机应用

Download on the App Store

Technical data 技术参数

FAQ
MSDS
Cloud

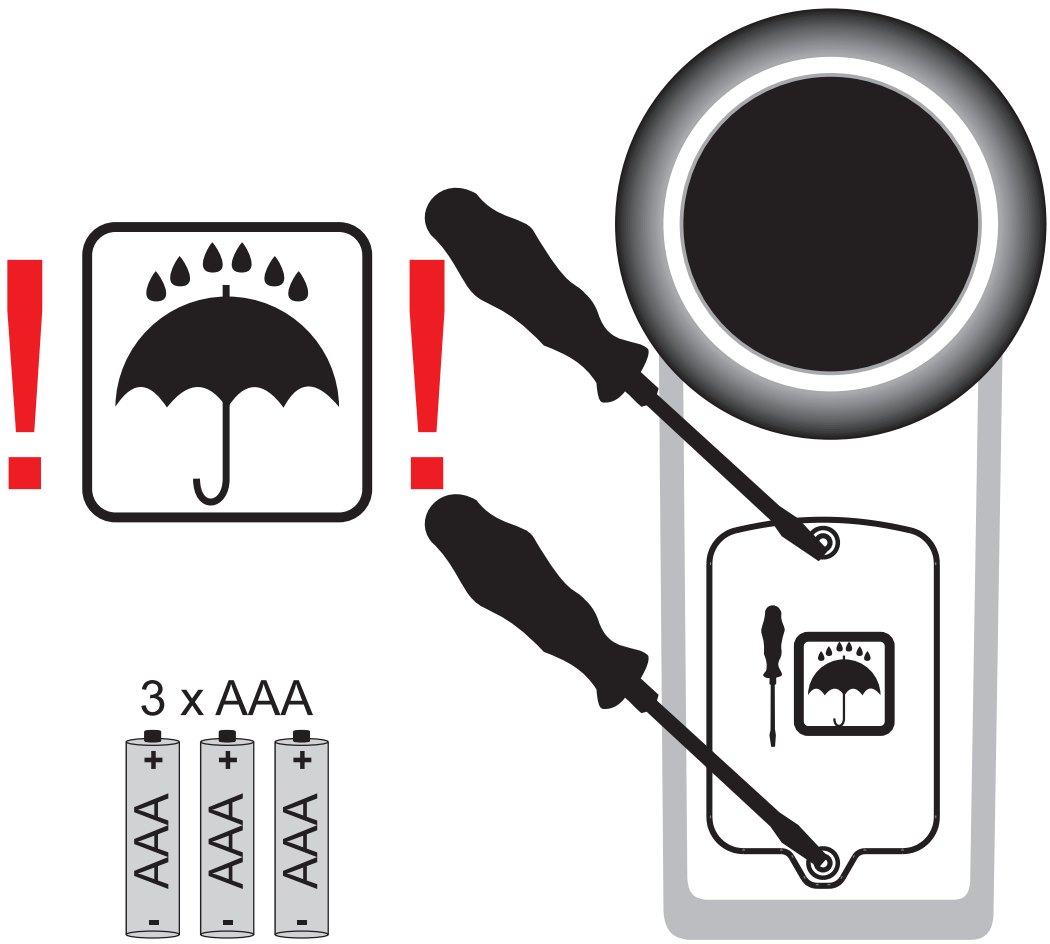
www.poollab.net

LED:	530 nm / 570 nm / 620 nm
	3 x AAA (1.5 V, LR03)
	300 sec. 5秒后自动关机
	5 - 45°C 工作环境温度要求
	IP 68 (1 h / 1.2 m)

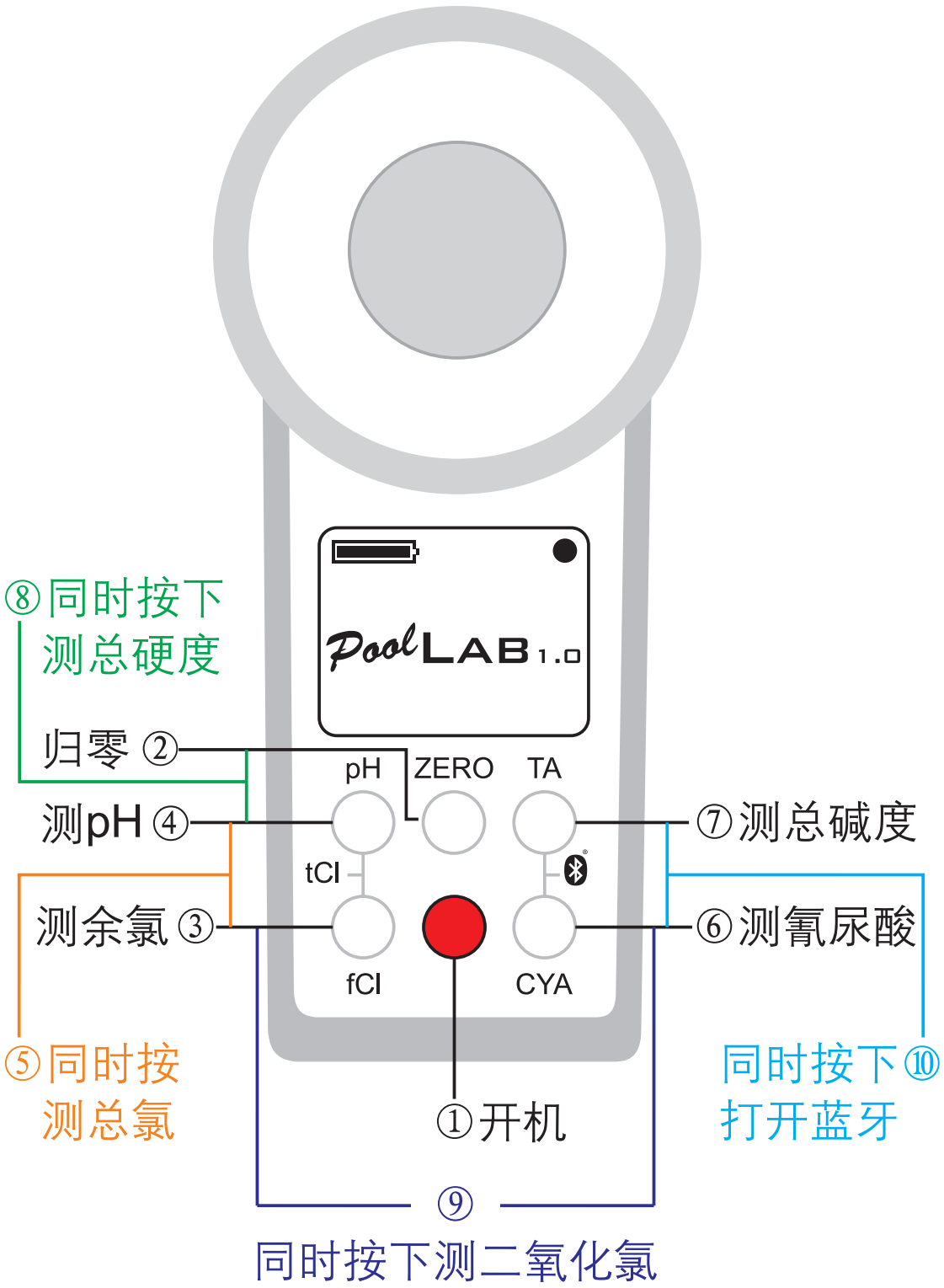
Developed in Germany
Assembled in PRC

BATTERIES • 电池

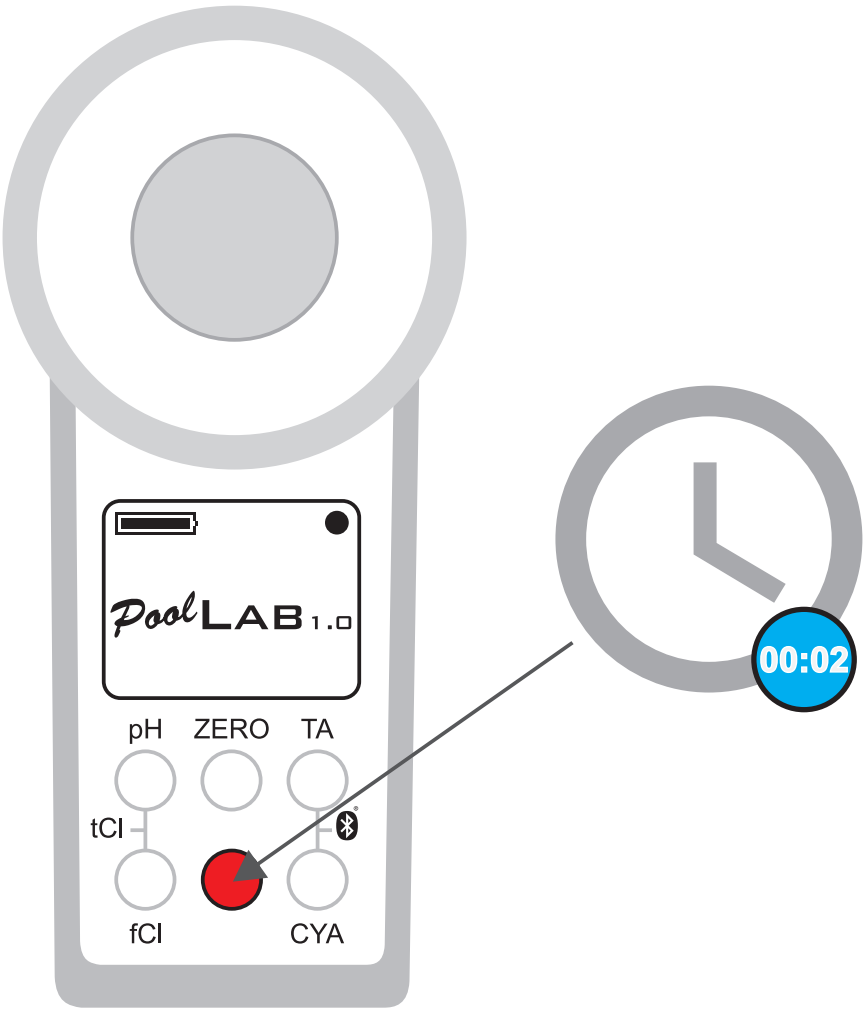
change
电量低时
更换新的电池



Instructions 操作说明



SWITCH ON • 开关机



On/Off button can also be used to skip countdown during measurement (not recommended)

电源开关按键也可在测试倒计时的时候按下，直接跳过倒计时等候时间（不建议此操作）

ADVICES • 提示

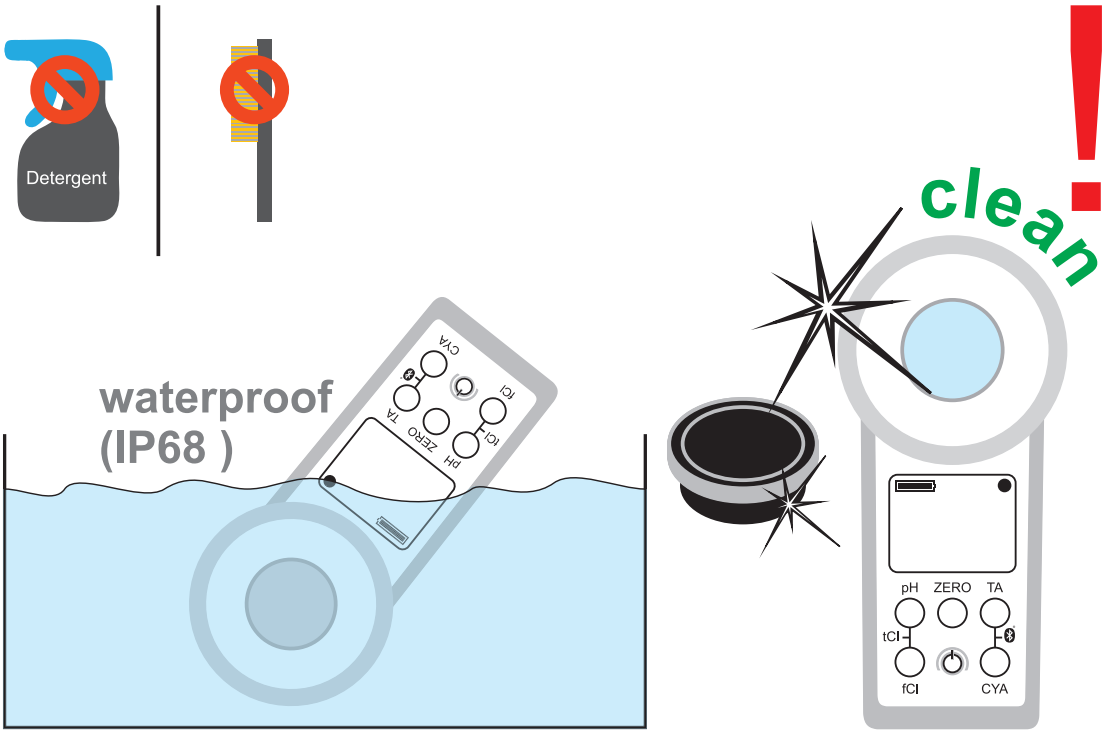
PHOTOMETER

Always use PHOTOMETER grade tablets!
Never use RAPID grade tablets!
Do not touch reagent tablets!

保证使用光度计专用试剂！
切勿使用快速测试试剂！
请勿触摸试剂！

RAPID

IMPORTANT • 注意事项



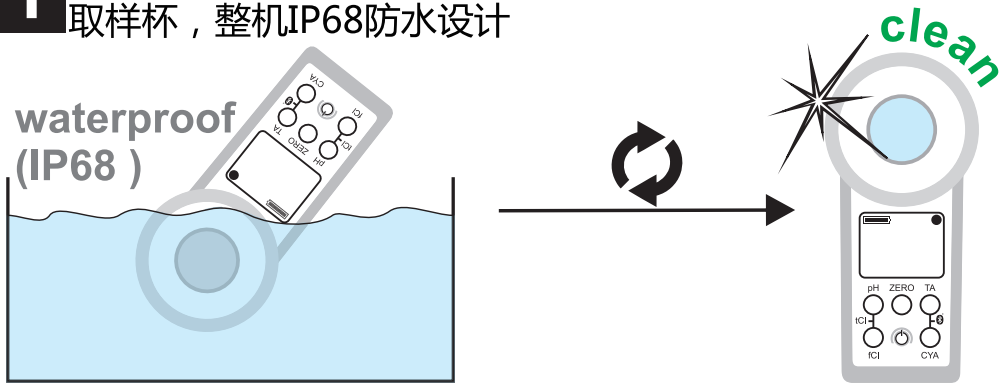
It is important to clean the device after each measurement to get rid of any reagent residues!

每次测试完成后记得清洗取样杯，防止残留试剂影响下一次测试的准确性！

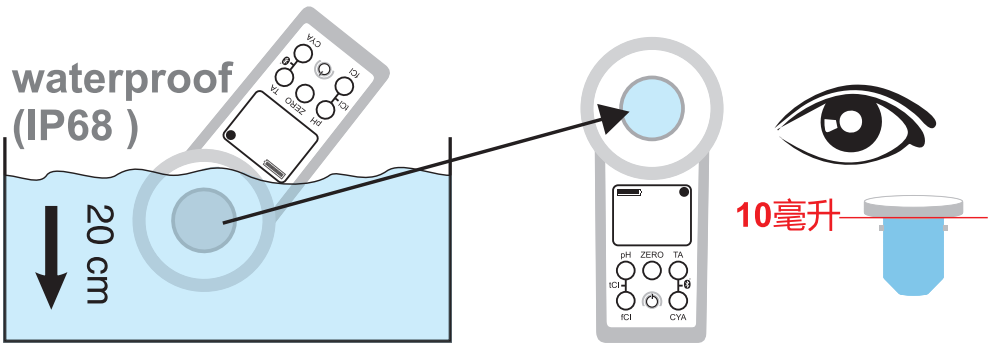
不要使用任何清洁剂清洗取样杯！
使用池水清洗几次取样杯即可。

ZERO/归零

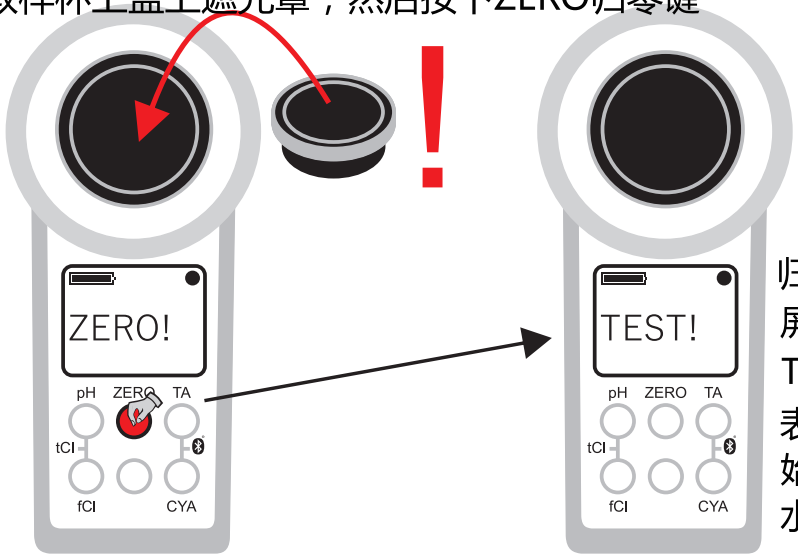
1 直接将光度计头部的取样杯插入池水中，使用池水清洗几次取样杯，整机IP68防水设计



2 然后在水面20公分以下取10毫升的池水水样



3 取样杯上盖上遮光罩，然后按下ZERO归零键



归零完成后，屏幕显示TEST-测试，表示可以开始测试相应水质参数了

Only 1 time per test batch

每次测试参数时，只需要开始做一次归零即可

Once you performed ZERO, all measurements, like pH, chlorine... can be done one after each other without the need to do a ZERO again. The ZERO will be stored until the device will be switched off. Nevertheless, ZERO can be performed before each measurement, if wished.

每次测试水质参数时，首先需要进行归零操作，然后就可以陆续测试不同的参数如pH，余氯等，中间无需每次测试前进行归零。首次归零的结果将会保持在光度计中，关机后则消失。开机后测试前需要重新归零

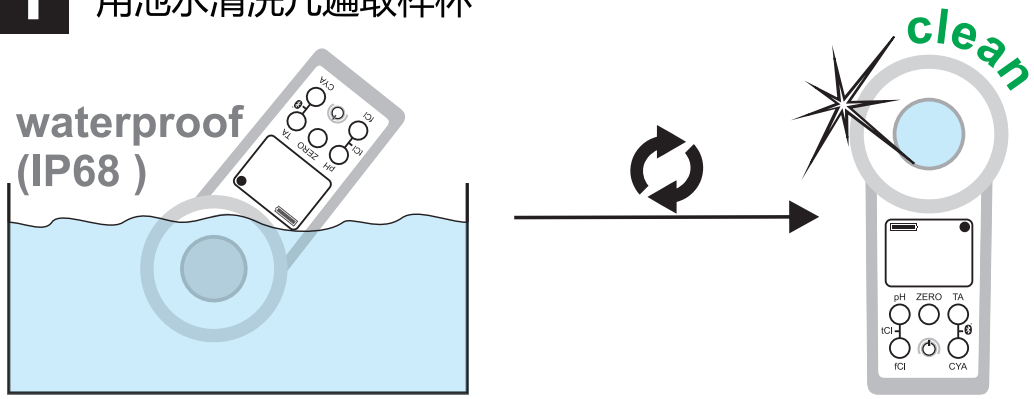
如果需要也可以在每个参数测试前进行归零。

pH

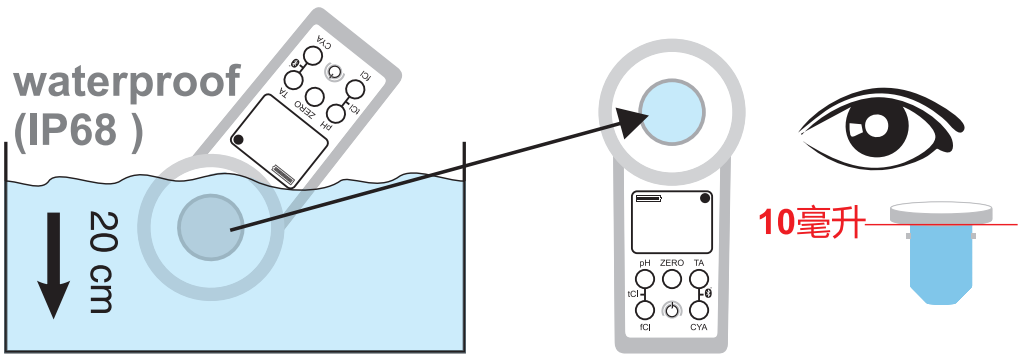
量程：6.50 - 8.40

试剂：*Phenol Red*片剂

1 用池水清洗几遍取样杯

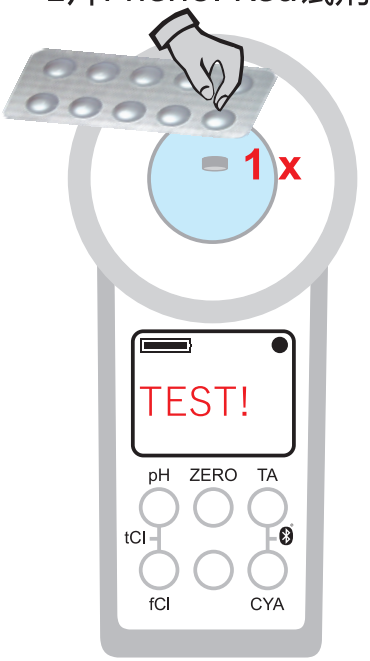


2 水面*20*公分以下，取样杯中取10毫升水样



pH

3 向取样杯中放入
1片Phenol Red试剂



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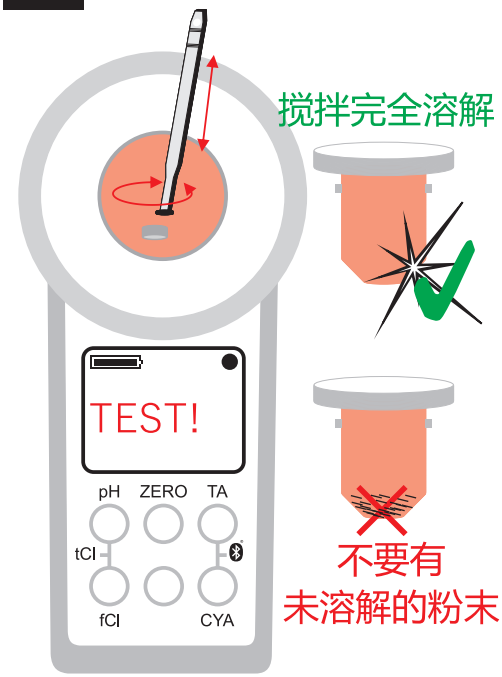
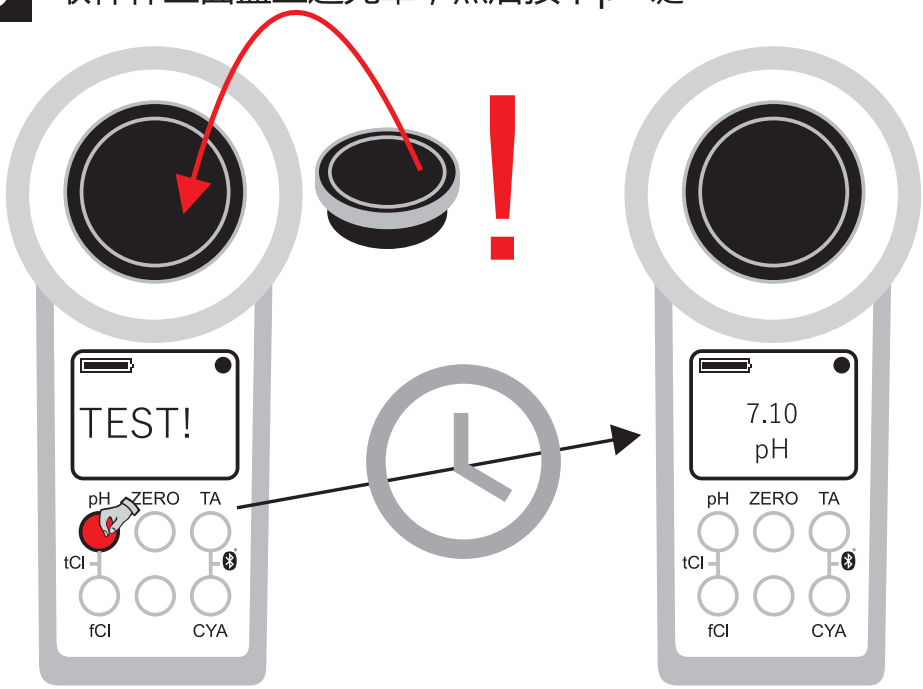


5 取样杯上面盖上遮光罩，然后按下pH键



等待屏幕显示pH测试结果

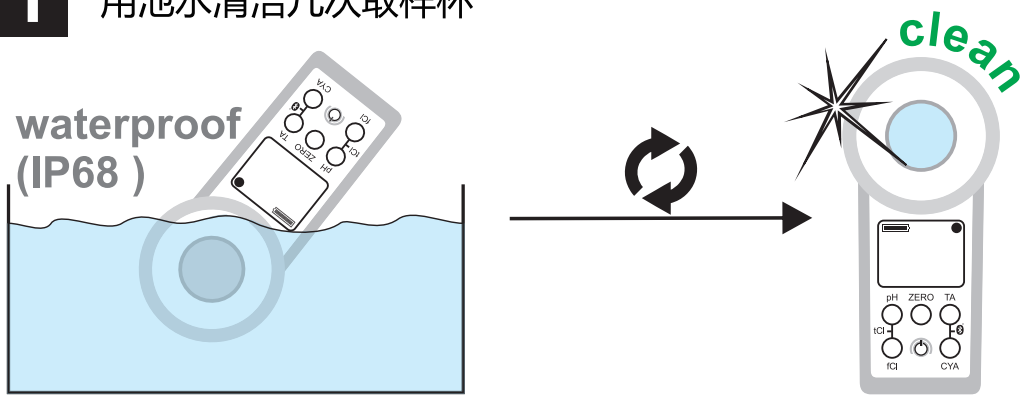
Chlorine

氯
（余氯）
（化合氯）
（总氯）

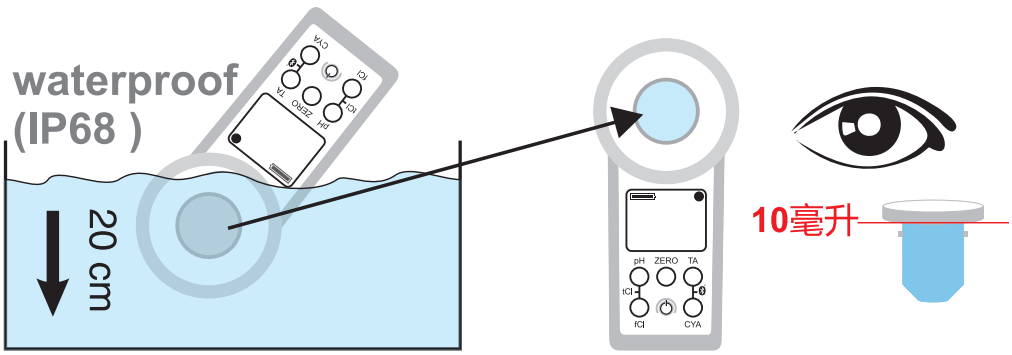
量程：**0.00 - 6.00 mg/l (ppm)**

试剂：DPD N° 1 片剂及DPD N° 3 片剂

1 用池水清洁几次取样杯

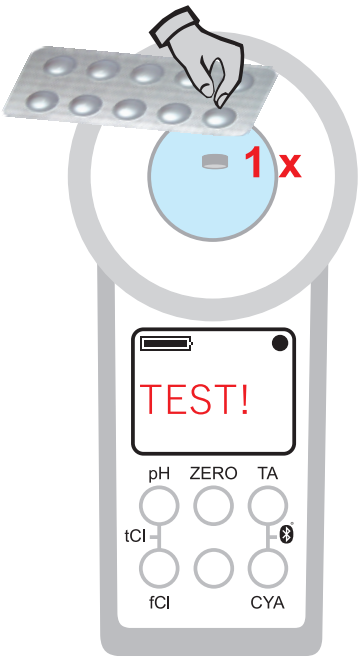


2 水面*20*公分以下，取样杯中取10毫升水样



Free Chlorine 余氯测试

3 取样杯中放入1片DPD N° 1试剂



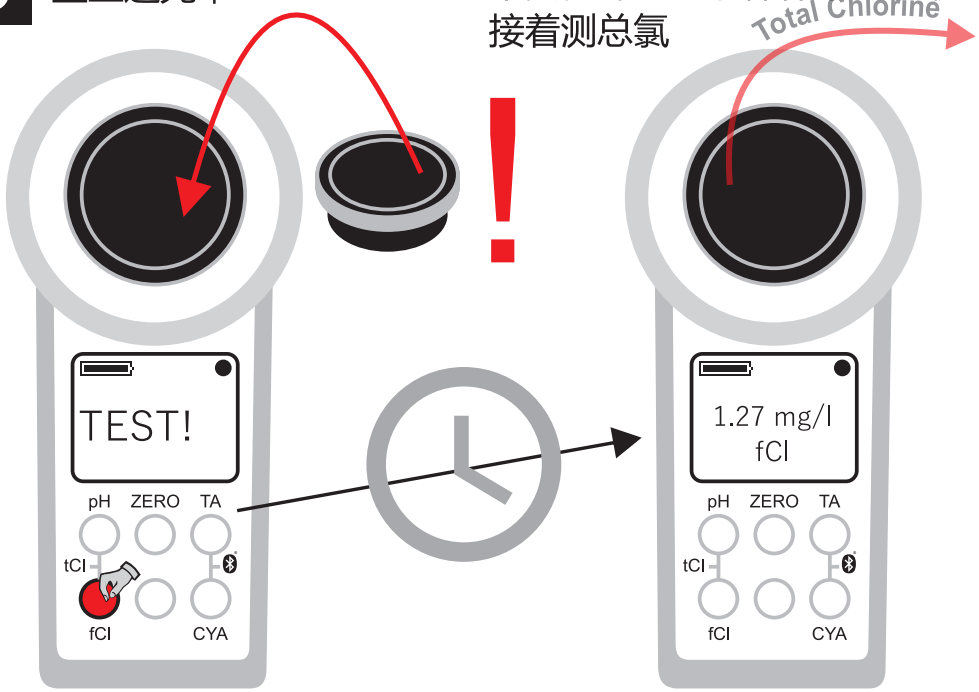
4

搅拌完全溶解

不要有
未溶解的试剂

5 盖上遮光罩

不要倒掉此时取样杯中的溶液
接着测总氯

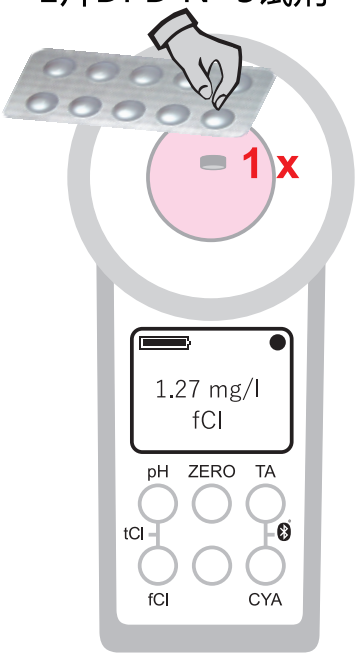


按下fCl键开始测试余氯

等待屏幕显示余氯结果(fCl)

Total Chlorine 总氯测试

6 往取样杯中接着放入
1片DPD N° 3试剂



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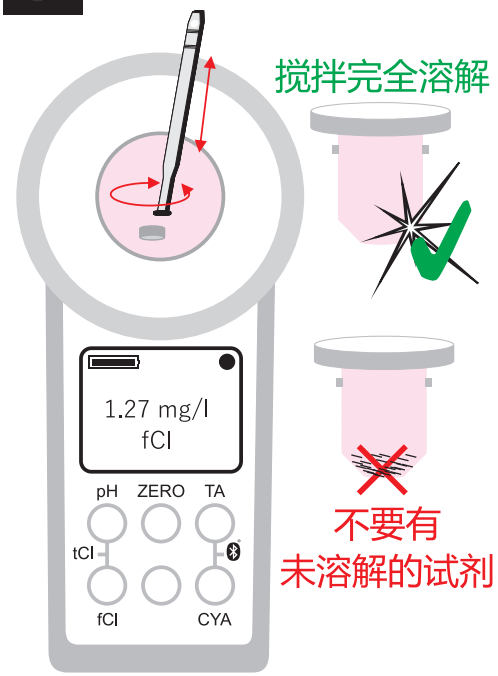
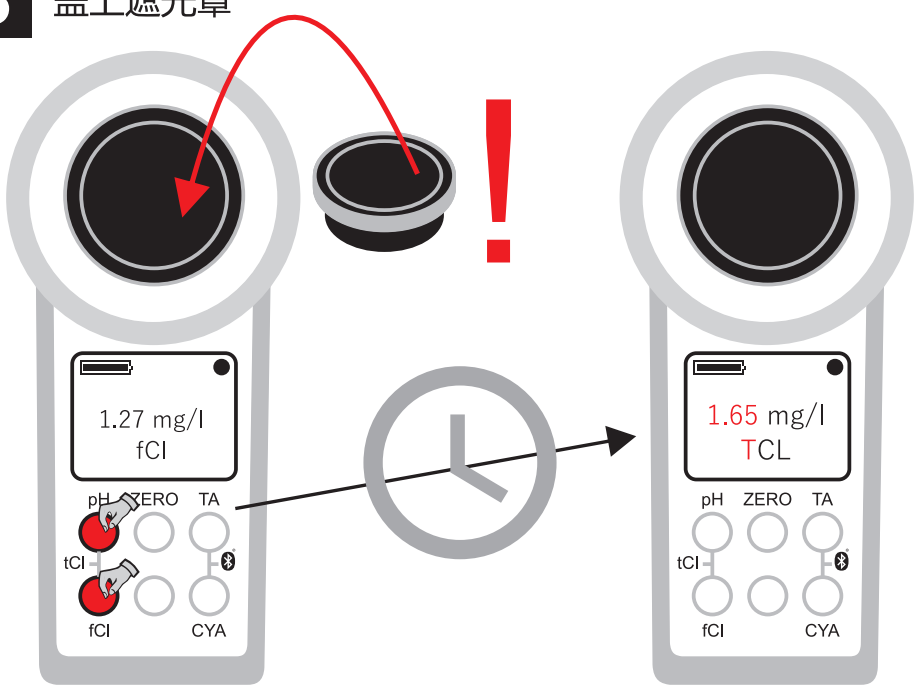


8 盖上遮光罩



同时按下fCl及pH键

等待屏幕显示总氯结果(TCL)

Total Chlorine is measured directly after free Chlorine without emptying the cuvette. The DPD 3 tablet is added to the sample water which already contains the DPD 1 tablet (dissolved). Combined Chlorine is calculated as Total Chlorine minus free Chlorine.

测试完余氯后，不要将取样杯中的水样倒出，
继续放入一片DPD3试剂后就可以测试总氯。
化合氯的值 = 总氯 - 余氯

Le chlore total est mesuré directement après le chlore libre sans vidanger la cuvette. La pastille DPD 3 est ajoutée à l'eau échantillon qui contient déjà la tablette DPD 1 (dissoute). Le chlore combiné est calculé comme le chlore total moins le chlore libre.

El cloro total se mide directamente después de cloro libre, sin necesidad de vaciar la cubeta. La tableta DPD 3 se añade a la cubeta en la que la tableta DPD 1 ya está disuelta. El cloro combinado se calcula a partir de cloro total menos cloro libre.

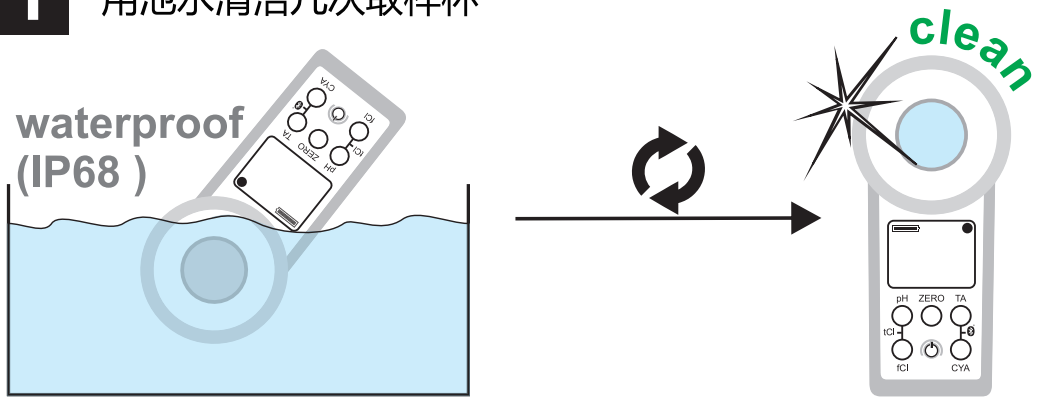
Gesamt-Chlor wird direkt nach freiem Chlor gemessen, ohne die Küvette zu leeren. Die DPD 3 Tablette wird in die Küvette gegeben, in der bereits die DPD 1 Tablette gelöst ist. Das gebundene Chlor errechnet sich aus Gesamt-

Cyanuric Acid
氰尿酸

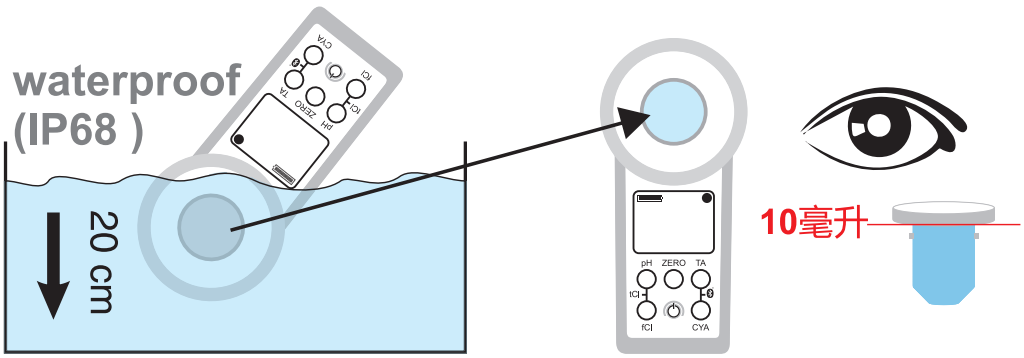
量程 : 0 - 160 mg/l (ppm)

试剂 : *CYA-Test Photometer*

1 用池水清洁几次取样杯

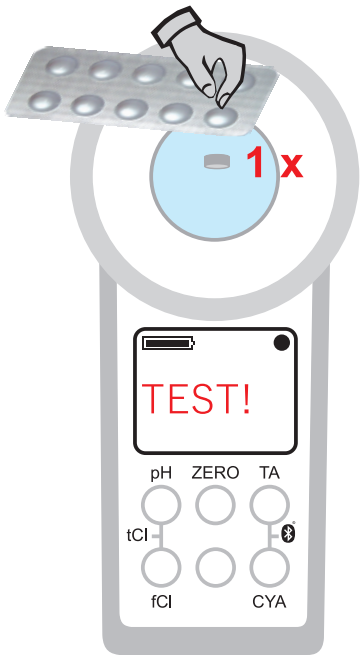


2 水面*20*公分以下，取样杯中取10毫升水样



Cyanuric Acid 氰尿酸测试

3 取样杯中放入1片CYA试剂



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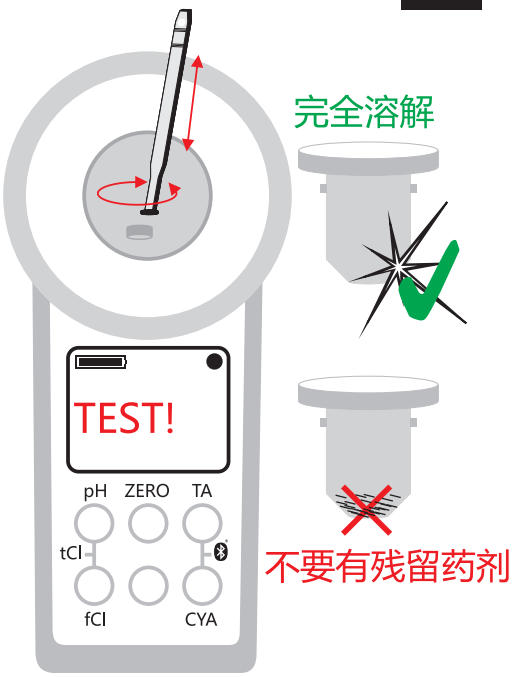
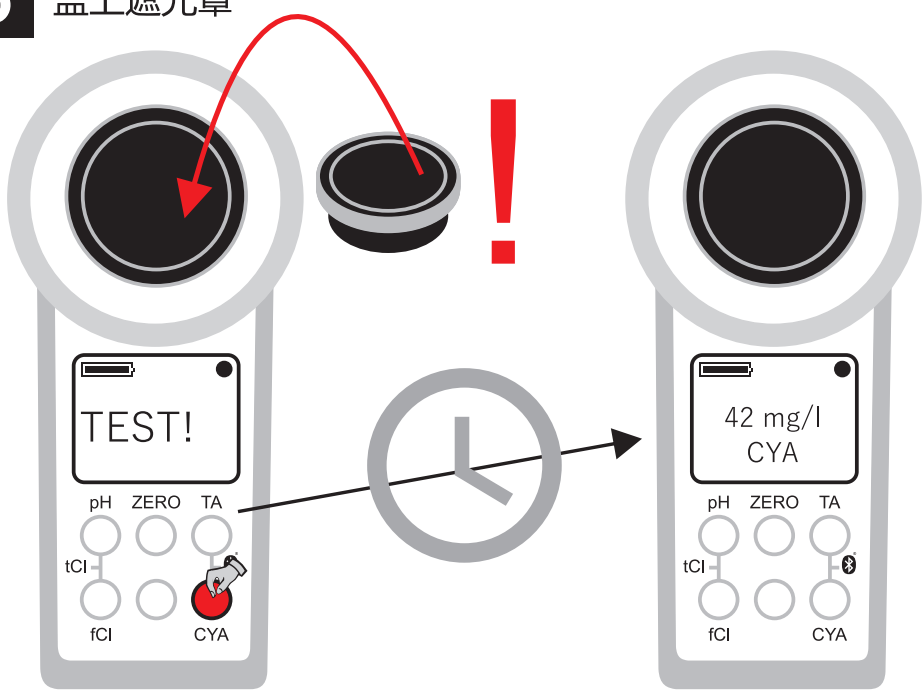


5 盖上遮光罩



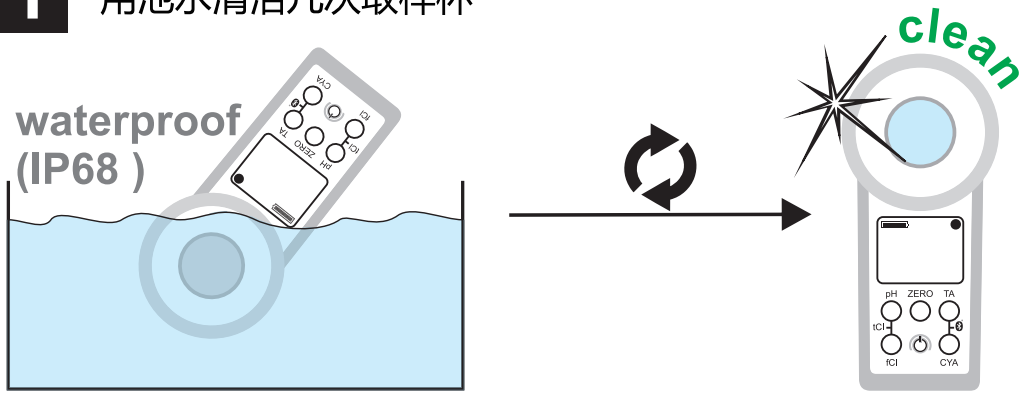
按下CYA键开始测试氰尿酸　　等待显示氰尿酸结果(CYA)

Alkalinity
总碱度

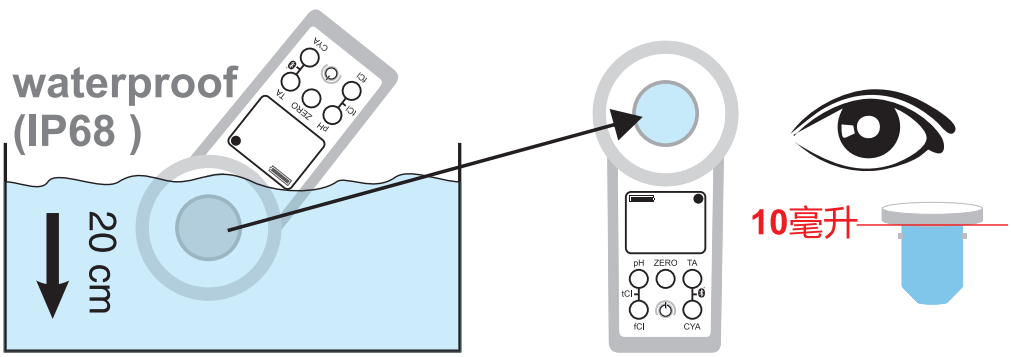
量程 : 0 - 300 mg/l (ppm) $CaCO_3$

试剂 : *Alkalinity-M Photometer*

1 用池水清洁几次取样杯

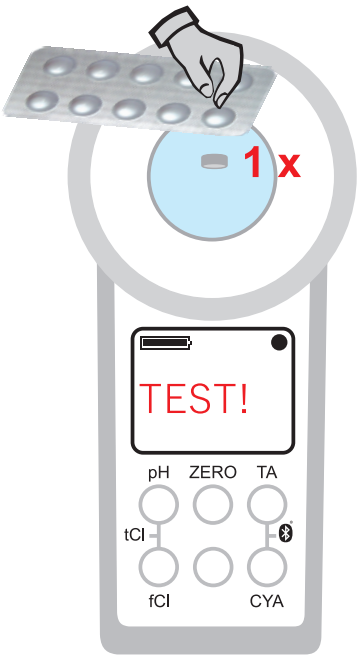


2 水面*20*公分以下，取样杯中取10毫升水样



Alkalinity 总碱度测试

3 取样杯中放入1片Alkalinity-M试剂



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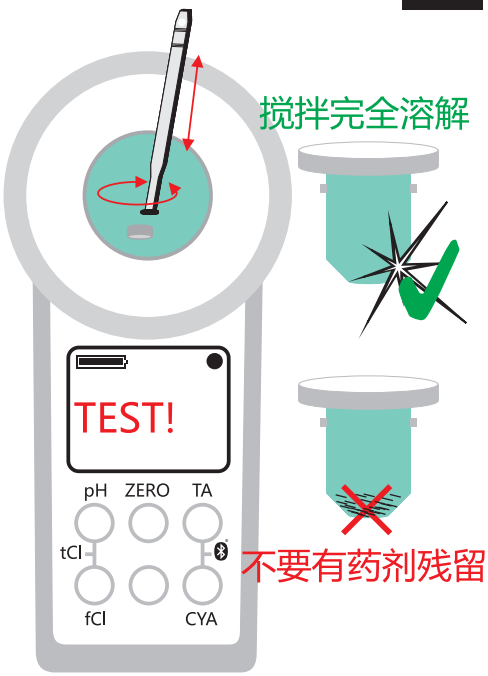
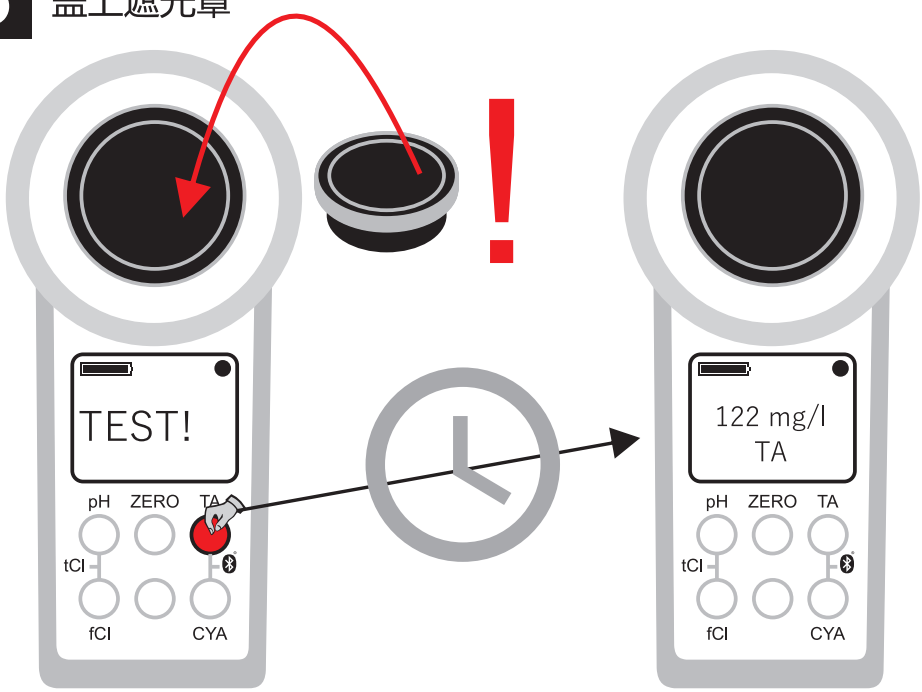


5 盖上遮光罩



按下TA键开始测试总碱度

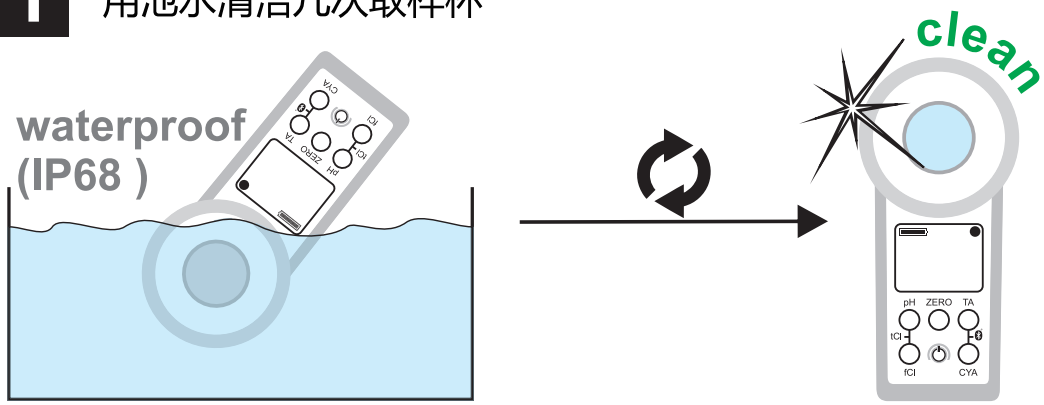
等待显示总碱度结果(TA)

Active Oxygen
活性氧

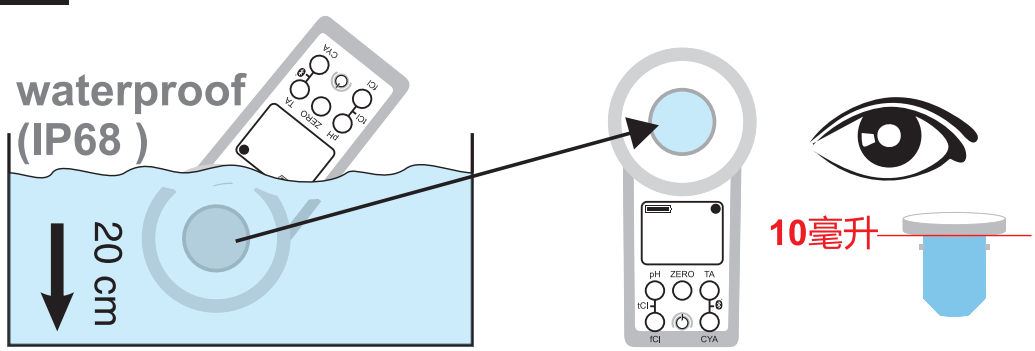
量程 : 0.0 - 30.0 mg/l (ppm)

试剂 : *DPD N° 4 Photometer**

1 用池水清洁几次取样杯

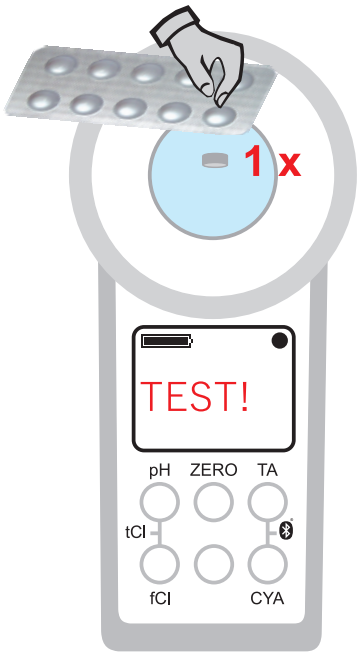


2 水面*20*公分以下，取样杯中取10毫升水样



Active Oxygen 活性氧测试

3 取样杯中放入1片DPD No 4试剂



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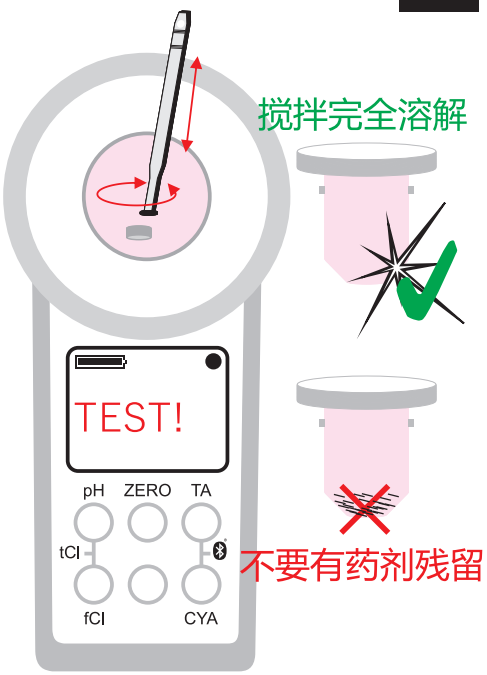
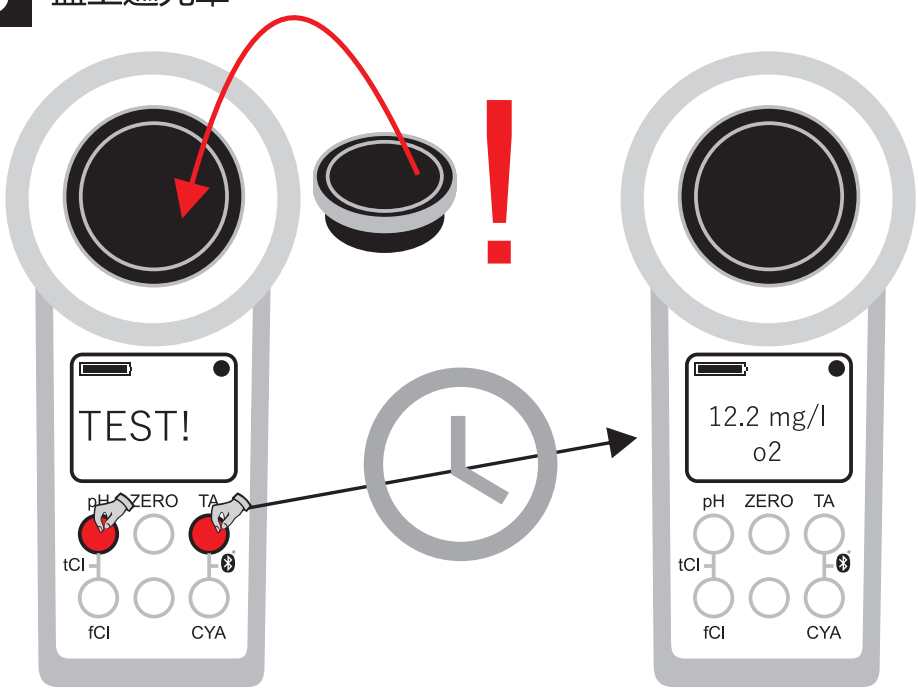


5 盖上遮光罩



同时按下pH和TA键开始测试

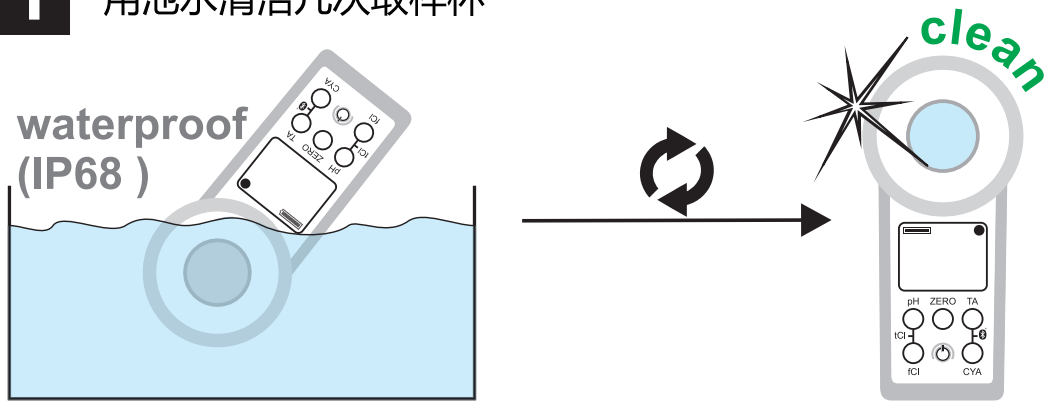
等待显示活性氧结果(o2)

Chlorine Dioxide
二氧化氯

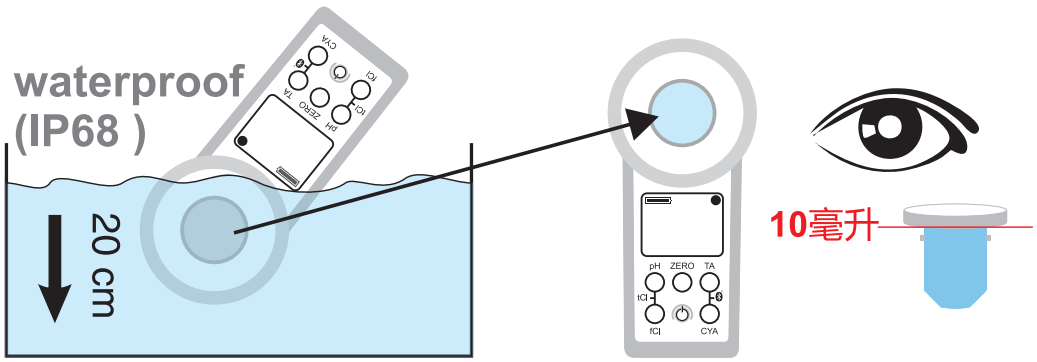
量程 : 0.00 - 11.40 mg/l (ppm)

试剂 : *DPD N° 1 Photometer*和*Glycine**

1 用池水清洁几次取样杯



2 水面*20*公分以下，取样杯中取10毫升水样



Chlorine Dioxide 二氧化氯测试

Only if your water sample does contain Chlorine next to Chlorine Dioxide (both disinfectants used), the following procedure "A" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Chlorine Dioxide present), please follow procedure "B".

水中同时含有氯和二氧化氯消毒剂时，请按照A流程测试二氧化氯。此时除了DPD No. 1试剂，还需要甘氨酸试剂（Glycine). 否则（水中只有二氧化氯作为消毒剂时）请按照B流程进行测试

Seulement si votre échantillon d'eau contient du chlore avec du dioxyde de chlore (les deux désinfectants utilisés), la procédure suivante «A» doit être suivie et le réactif Glycine * doit être utilisé. Sinon (seul le dioxyde de chlore présent sans Chlore), suivez la procédure «B».

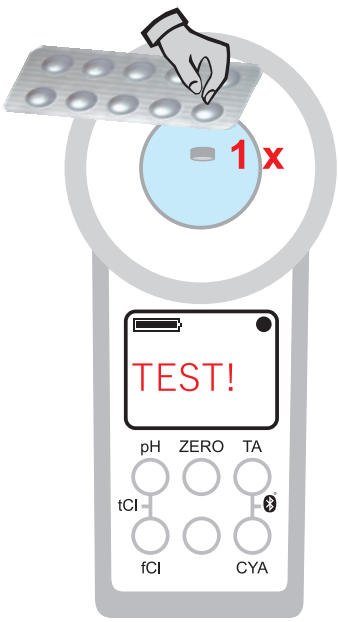
Sólo cuando la muestra de agua contiene dióxido de cloro y cloro (se han utilizado ambos desinfectantes), debe ser aplicado el método "A" usando la tableta de glicina. Si la muestra contiene únicamente dióxido de cloro y no contiene cloro, por favor seguir el método "B".

Nur wenn die Wasserprobe neben Chlordioxid auch Chlor enthält (beide Desinfektionsmittel wurden benutzt), muss das Verfahren "A" angewendet und die Glycine Tablette verwendet werden. Falls die Probe nur Chlordioxid und kein Chlor enthält, bitte dem Verfahren "B" folgen.

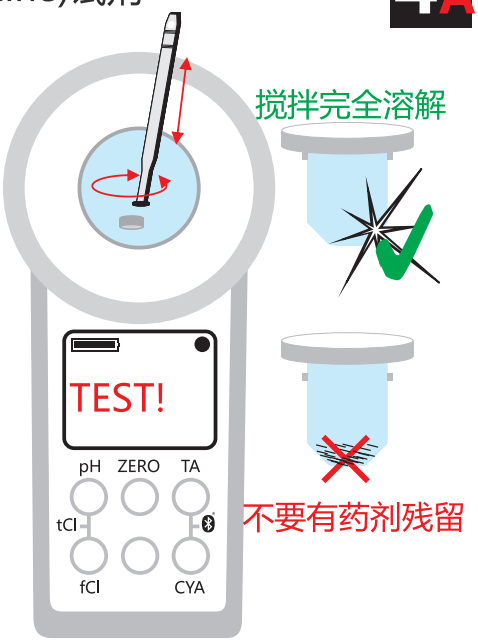
Chlorine Dioxide 二氧化氯测试

A 水中同时含有氯和二氧化氯两种消毒剂时

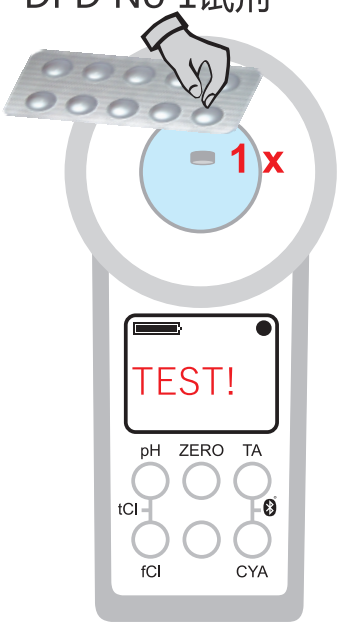
3A 取样杯中放入1片甘氨酸(Glycine)试剂



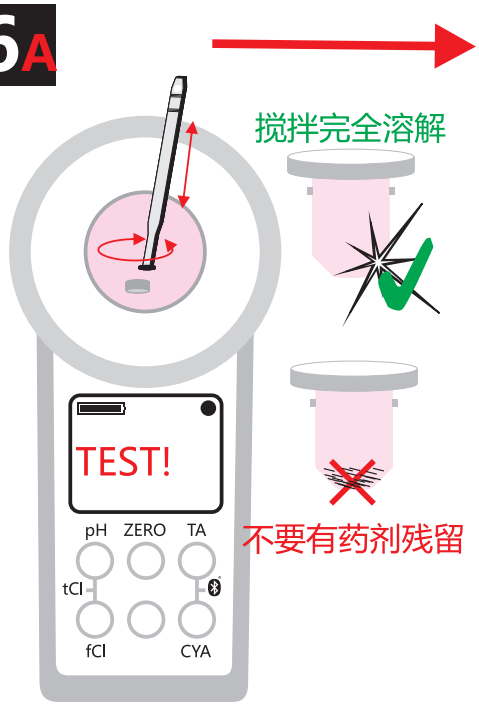
4A



5A 取样杯中继续放入1片 DPD No 1试剂



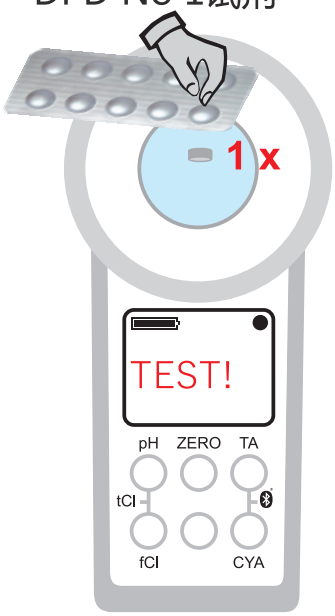
6A



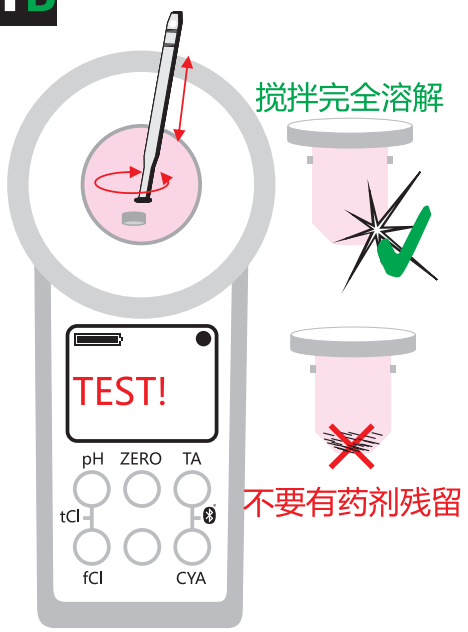
Chlorine Dioxide 二氧化氯测试

B 水中不含氯消毒剂时，按以下步骤测试二氧化氯

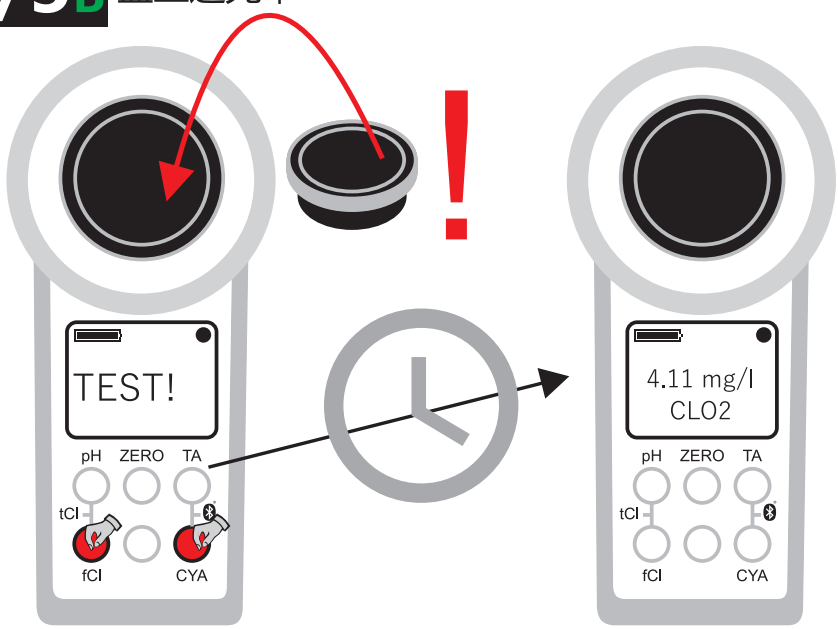
3B 取样杯中放入1片 DPD No 1试剂



4B



7A/5B 盖上遮光罩



同时按下fCl和CYA键开始测试

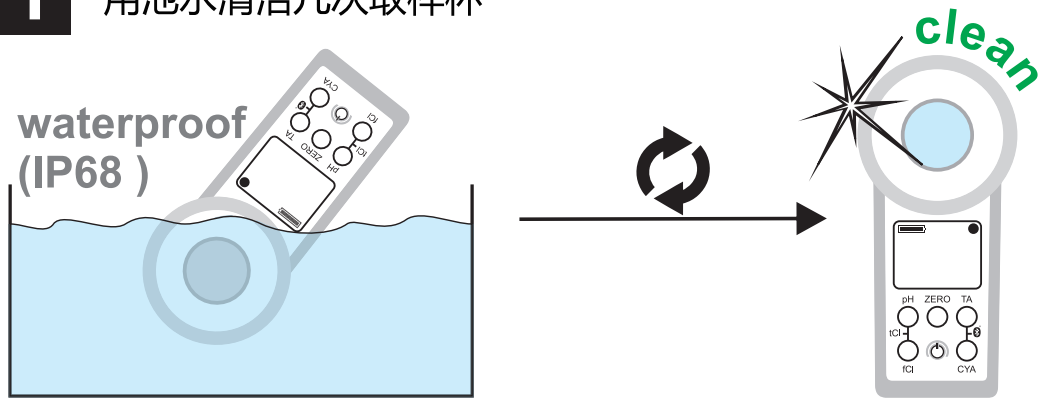
等待显示二氧化氯结果(CLO2)

Bromine
溴

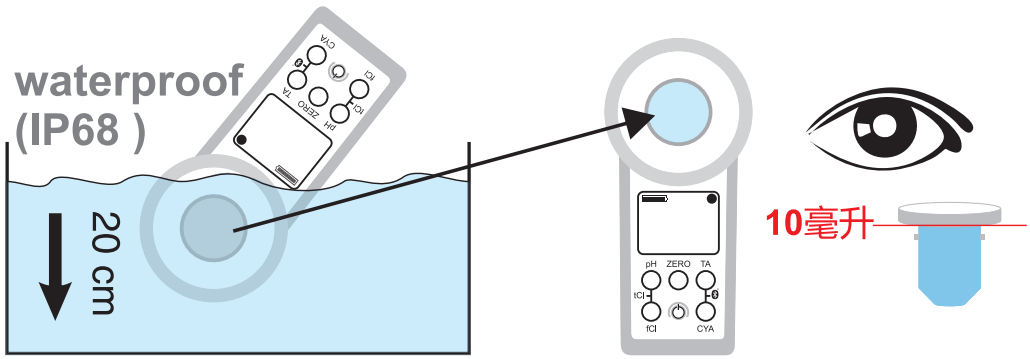
量程 : 0.0 - 13.5 mg/l (ppm)

试剂 : *DPD N° 1 Photometer*及甘氨酸（*Glycine*）

1 用池水清洁几次取样杯



2 水面*20*公分以下，取样杯中取10毫升水样



Bromine 溴测试

Only if your water sample does contain Chlorine next to Bromine (both disinfectants used), the following procedure "A" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Bromine present), please follow procedure "B"

水中同时含有氯和溴两种消毒剂时，请按照A流程测试。此时除了DPD No. 1试剂，还需要甘氨酸试剂（Glycine).
否则（水中只有溴作为消毒剂时）请按照B流程进行测试

Seulement si votre échantillon d'eau contient du chlore avec du Brome (les deux désinfectants utilisés), la procédure suivante «A» doit être suivie et le réactif Glycine * doit être utilisé. Sinon (seul le Brome présent sans Chlore), suivez la procédure «B».

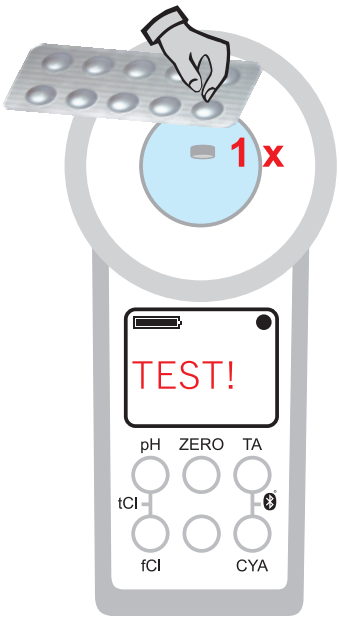
Sólo cuando la muestra de agua contiene Bromo y cloro (se han utilizado ambos desinfectantes), debe ser aplicado el método "A" usando la tableta de glicina. Si la muestra contiene únicamente Bromo y no contiene cloro, por favor seguir el método "B".

Nur wenn die Wasserprobe neben Brom auch Chlor enthält (beide Desinfektionsmittel wurden benutzt), muss das Verfahren "A" angewendet und die Glycine Tablette verwendet werden. Falls die Probe nur Brom und kein Chlor enthält,
bitte dem Verfahren "B" folgen.

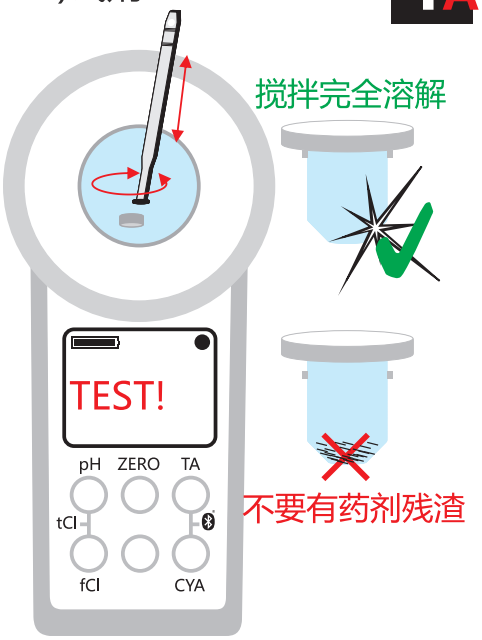
Bromine 溴测试

A 水中同时含有氯和溴两种消毒剂时

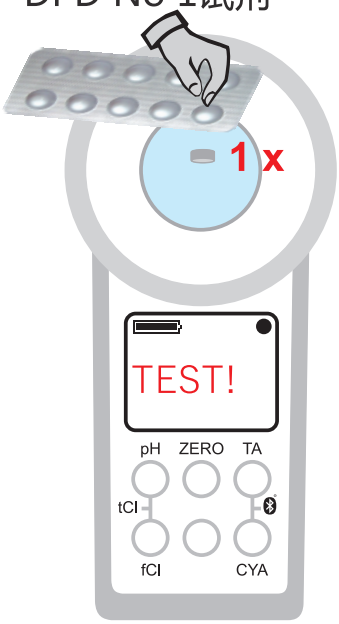
3A 取样杯中放入1片甘氨酸(Glycine)试剂



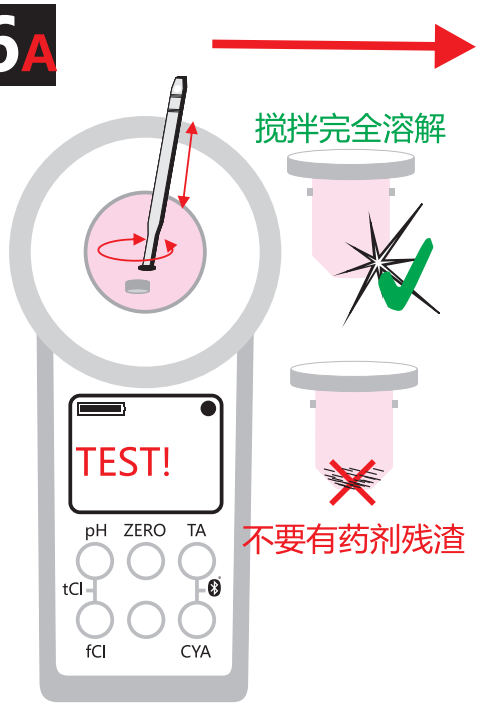
4A



5A 取样杯中继续放入1片 DPD No 1试剂



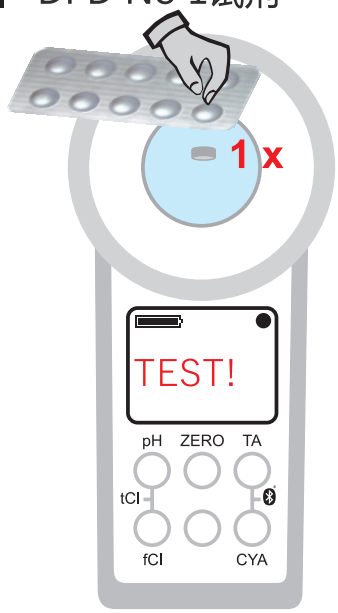
6A



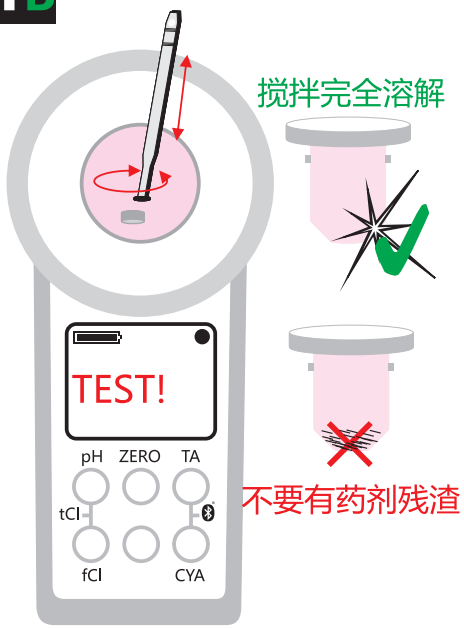
Bromine 溴测试

B 水中没有氯消毒剂时，按以下步骤测试溴

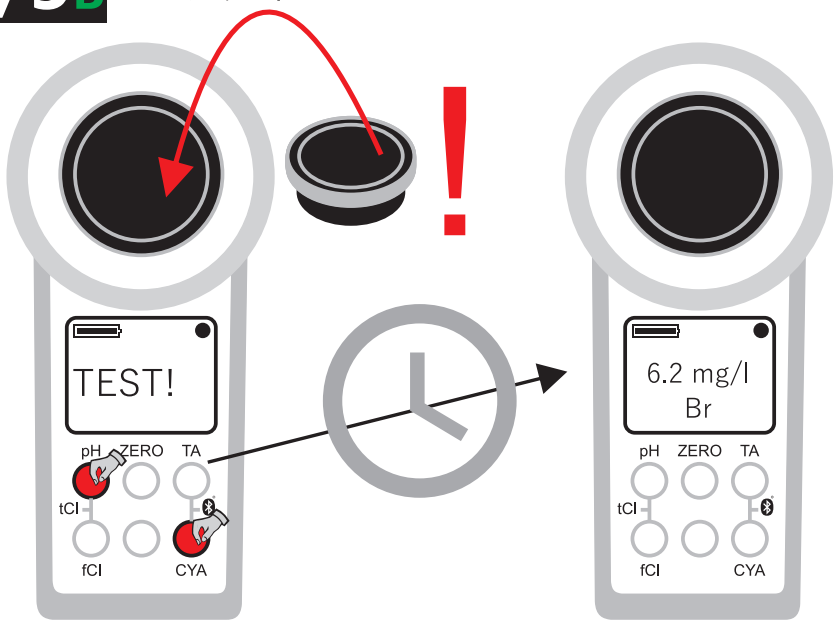
3B 取样杯中放入1片 DPD No 1试剂



4B



7A/5B 盖上遮光罩



同时按下pH和CYA键开始测试

等待显示溴结果(Br)

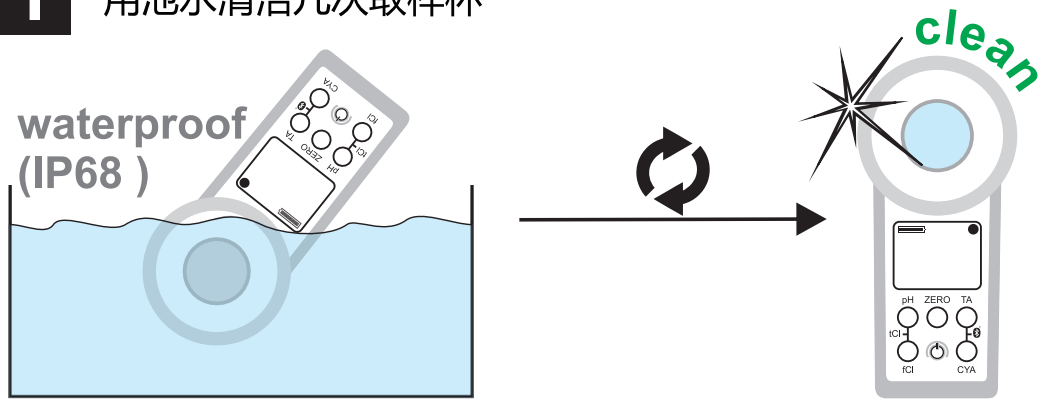
Ozone
臭氧

量程 : 0.00 - 4.00 mg/l (ppm)

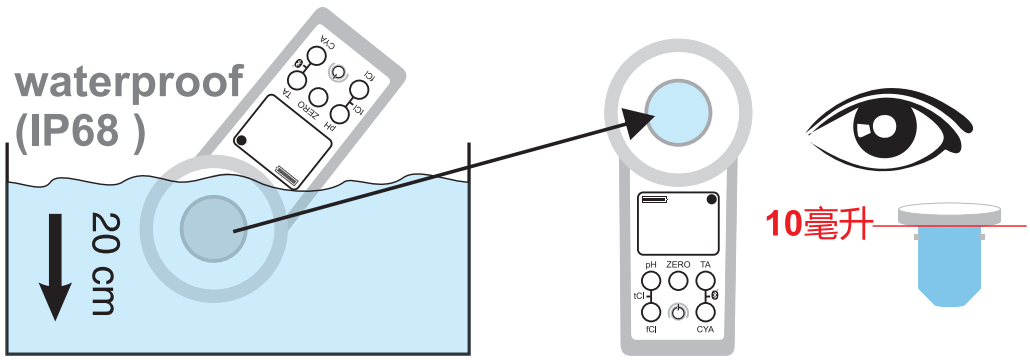
试剂

DPD N° 1 Photometer
DPD N° 3 Photometer
甘氨酸（*Glycine*）

1 用池水清洁几次取样杯



2 水面*20*公分以下，取样杯中取10毫升水样



Ozone 臭氧测试

Only if your water sample does contain Ozone next to Chlorine (both disinfectants used), the following procedure "B" needs to be followed and Glycine* reagent needs to be used. Otherwise (only Ozone present), please follow procedure "A".

水中同时含有氯和臭氧两种消毒剂时，请按照B流程测试。此时除了DPD No. 1和3试剂，还需要甘氨酸试剂（Glycine).
否则（水中只有臭氧作为消毒剂时）请按照A流程进行测试

Seulement si votre échantillon d'eau contient du chlore avec de l‘ Ozone (les deux désinfectants utilisés), la procédure suivante «B» doit être suivie et le réactif Glycine* doit être utilisé. Sinon (seul Ozone présent sans Chlore), suivez la procédure «A».

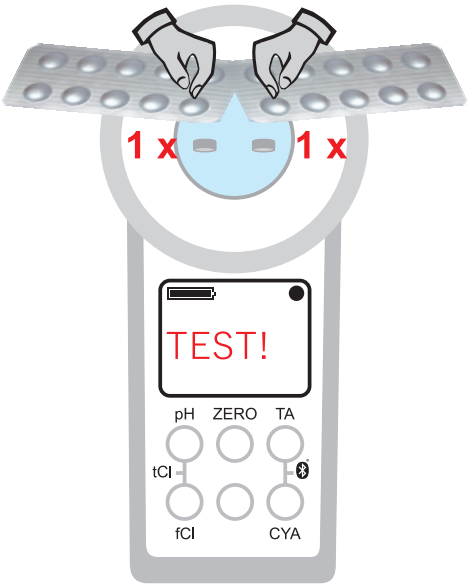
Sólo cuando la muestra de agua contiene Ozono y cloro (se han utilizado ambos desinfectantes), debe ser aplicado el método "B" usando la tableta de glicina*. Si la muestra contiene únicamente Ozono y no contiene cloro, por favor seguir el método "A".

Nur wenn die Wasserprobe neben Ozon auch Chlor enthält (beide Desinfektionsmittel wurden benutzt), muss das Verfahren "B" angewendet und die Glycine* Tablette verwendet werden. Falls die Probe nur Ozon und kein Chlor enthält, bitte dem Verfahren "A" folgen.

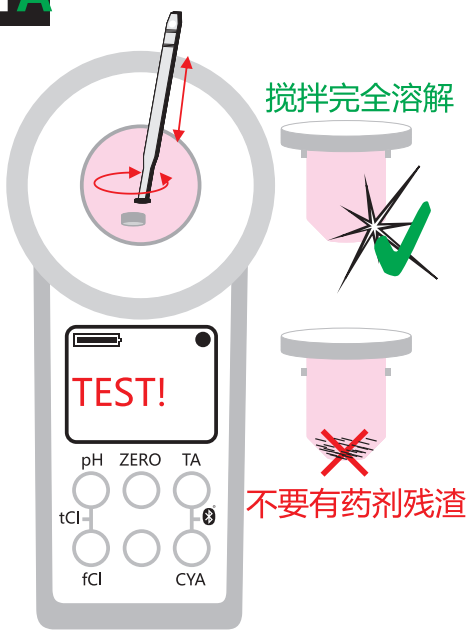
Ozone 臭氧测试

A 水中没有氯消毒剂时，按以下步骤测试

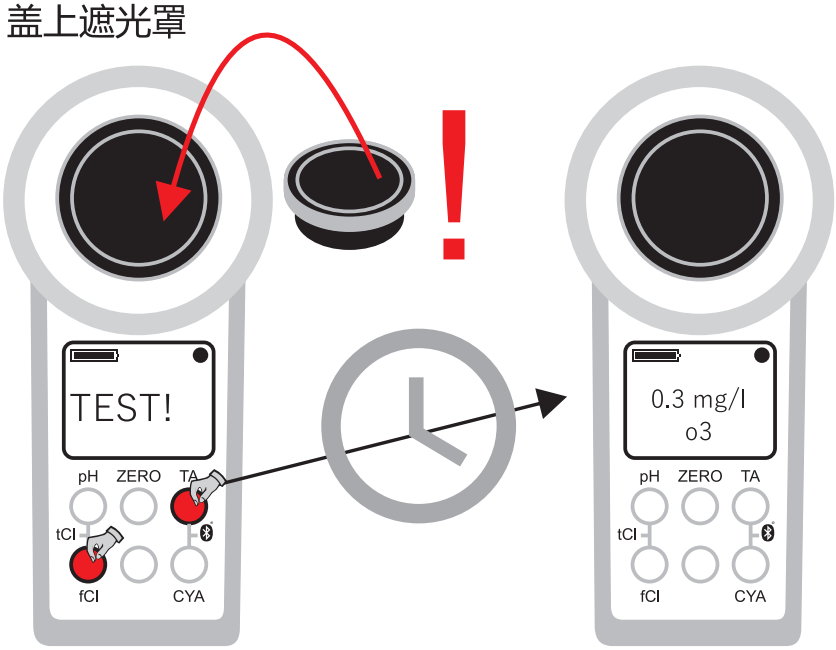
3A 取样杯中放入DPD No 1和DPD No 3试剂各一片



4A



5A 盖上遮光罩



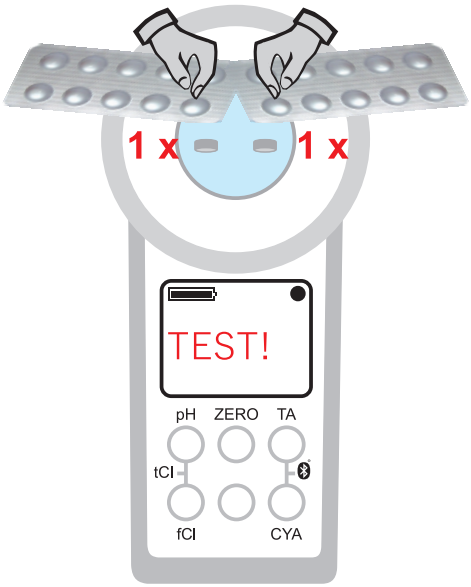
同时按下fCl和TA键开始测试

等待显示臭氧结果(o3)

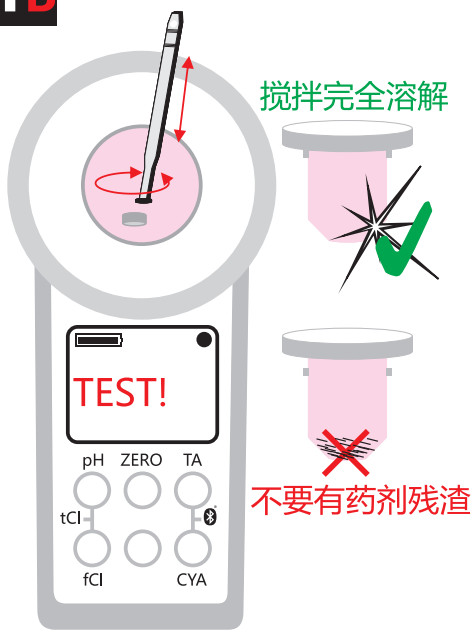
Ozone 臭氧测试

B 水中同时含有氯消毒剂和臭氧时，按以下步骤测试

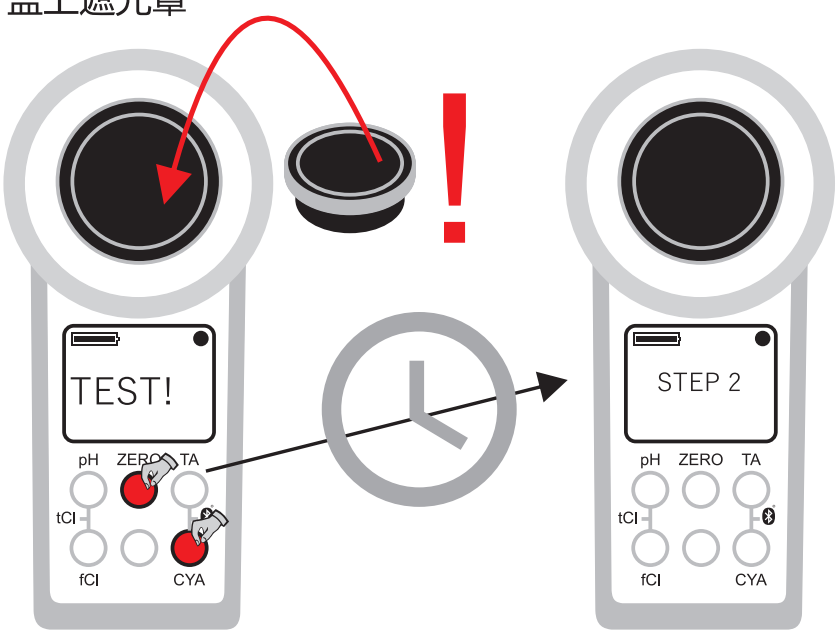
3B 取样杯中放入DPD No 1和DPD No 3试剂各一片



4B



5B 盖上遮光罩



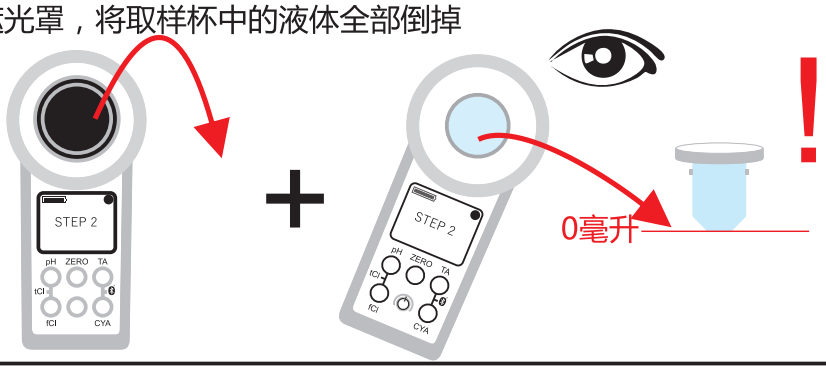
同时按下ZERO和CYA键开始测试

等待显示屏出现第二步(STEP 2)

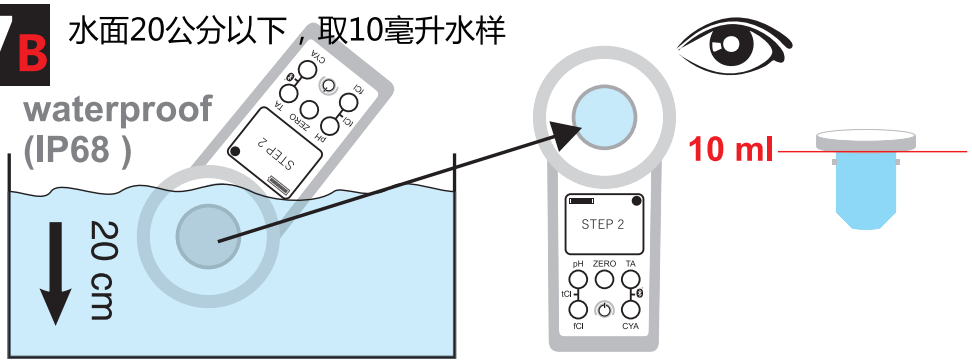
Ozone 臭氧测试

B 水中同时含有氯消毒剂和臭氧时，按以下步骤测试

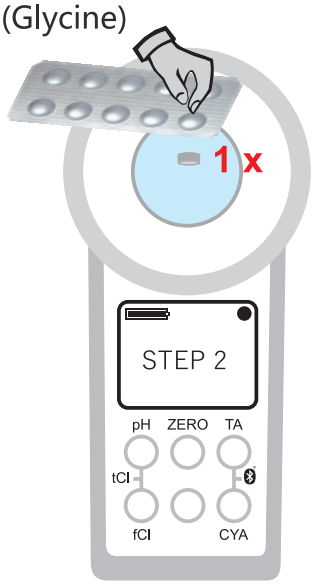
6B 取下遮光罩，将取样杯中的液体全部倒掉



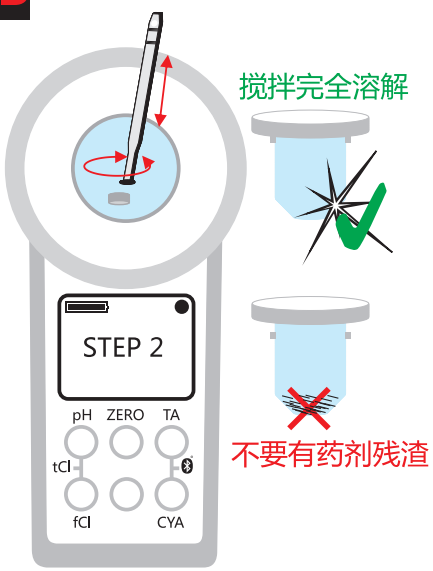
7B 水面20公分以下，取10毫升水样



8B 取样杯中放入一片甘氨酸试剂 (Glycine)



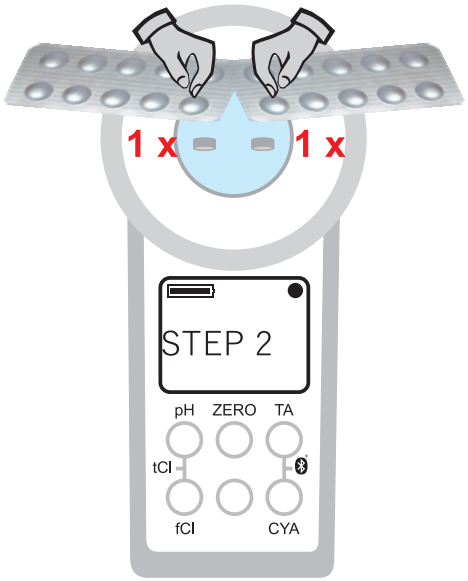
9B



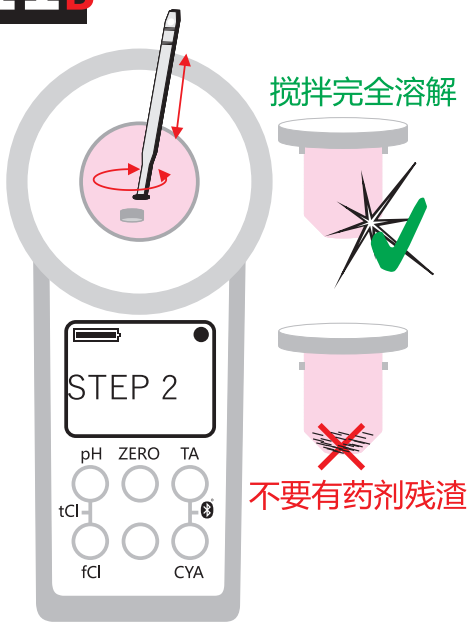
Ozone 臭氧测试

B 水中同时含有氯消毒剂和臭氧时，按以下步骤测试

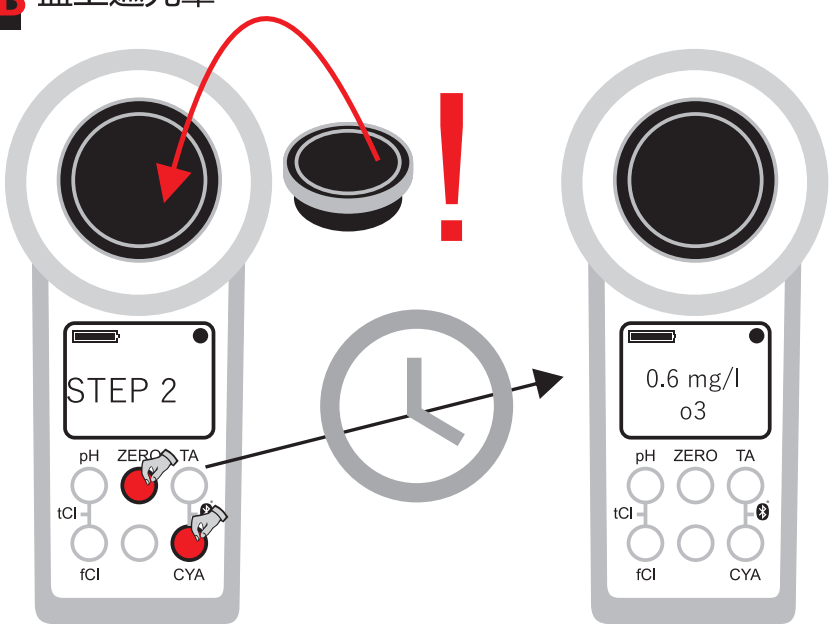
10B 取样杯中放入DPD No 1和DPD No 3试剂各一片



11B



12B 盖上遮光罩



同时按下ZERO和CYA键开始测试

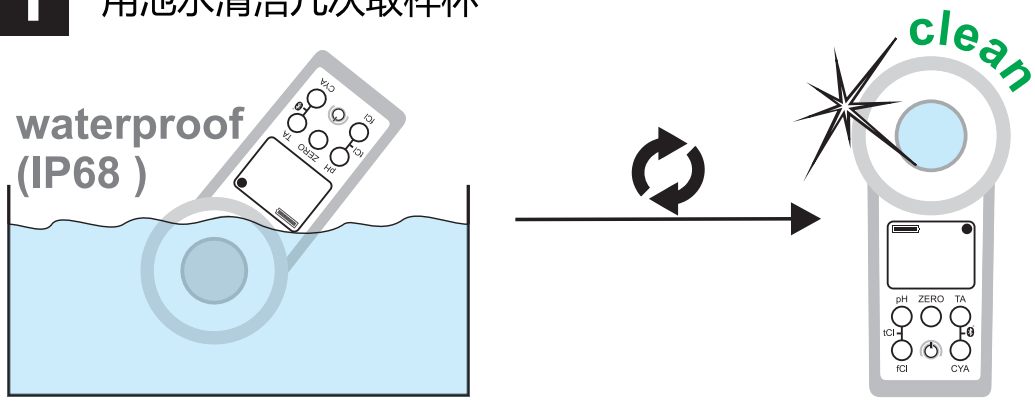
等待显示臭氧结果(o3)

Hydrogen Peroxide
过氧化氢
(低量程)

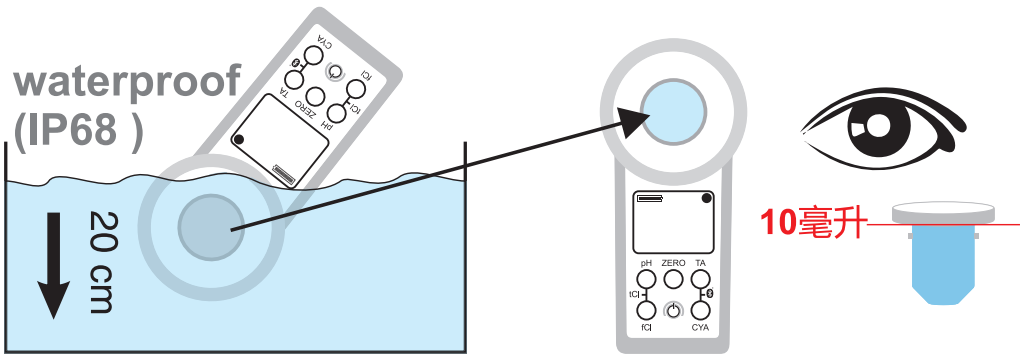
量程 : 0.00 - 2.90 mg/l (ppm)

试剂 : *Hyd. Peroxide LR Photometer**

1 用池水清洁几次取样杯

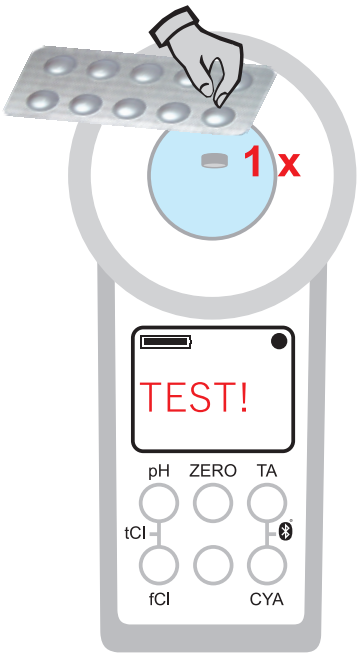


2 水面*20*公分以下，取样杯中取10毫升水样



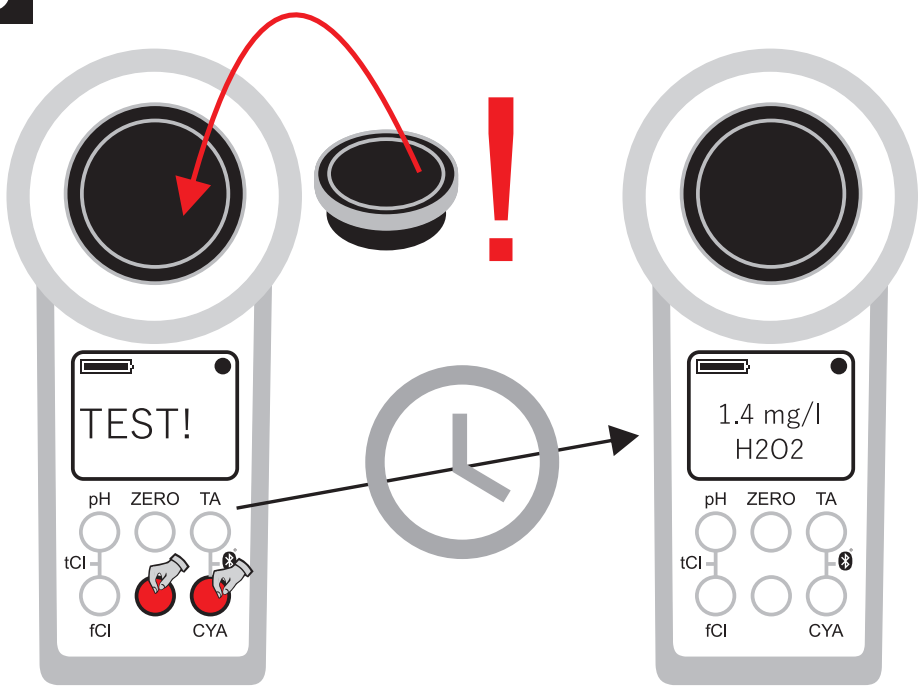
Hydrogen Peroxide 过氧化氢测试

3 取样杯中放入一片过氧化氢低量程试剂(Hydr. Perox. LR)



4

5 盖上遮光罩



同时按下电源和CYA键开始测试

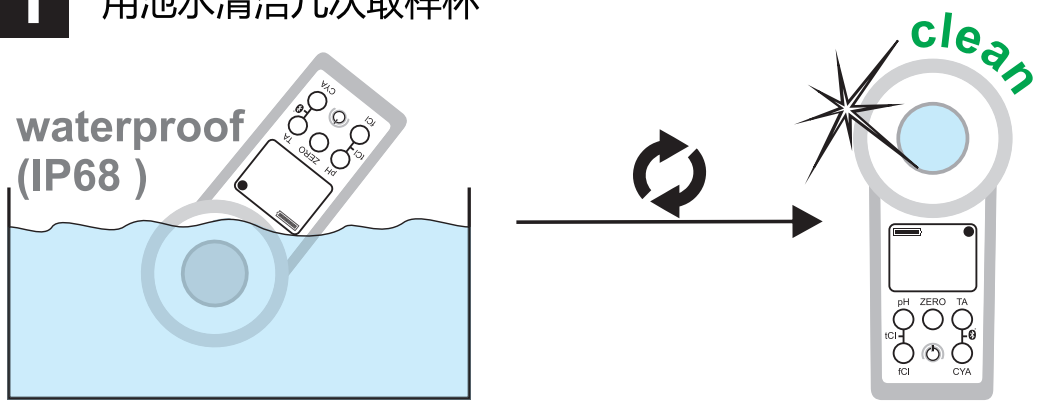
等待显示过氧化氢结果(H2O2)

Hydrogen Peroxide
过氧化氢
(高量程)

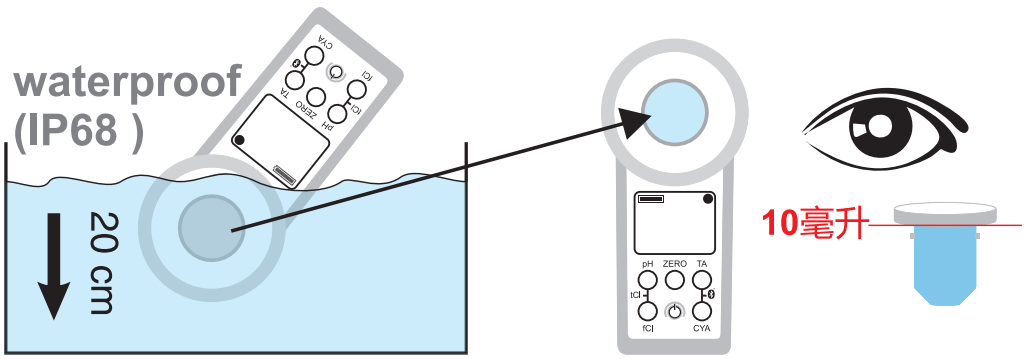
量程 : 0 - 200 mg/l (ppm)

试剂
Hyd. Peroxide HR Photometer
Acidifying PT

1 用池水清洁几次取样杯

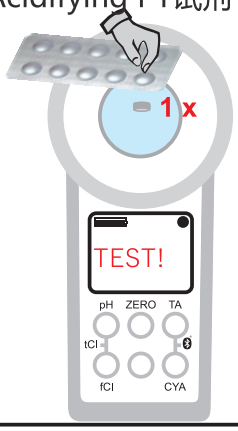


2 水面*20*公分以下，取样杯中取10毫升水样



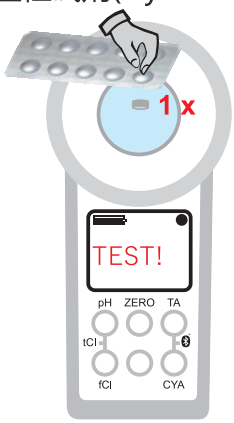
Hydrogen Peroxide 过氧化氢测试

3 取样杯中放入一片
Acidifying PT试剂



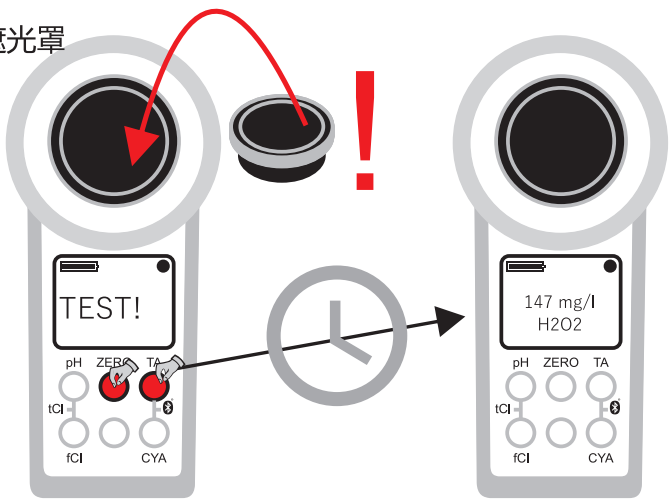
4

5 取样杯中放入一片过氧化氢
高量程试剂(Hydr. Perox. HR)



6

7 盖上遮光罩



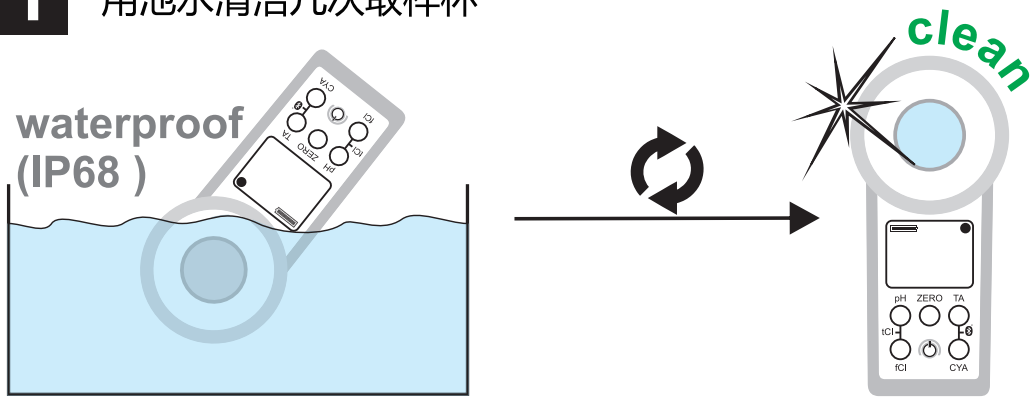
同时按下ZERO和TA键开始测试　　等待显示过氧化氢结果(H2O2)

Total Hardness
总硬度

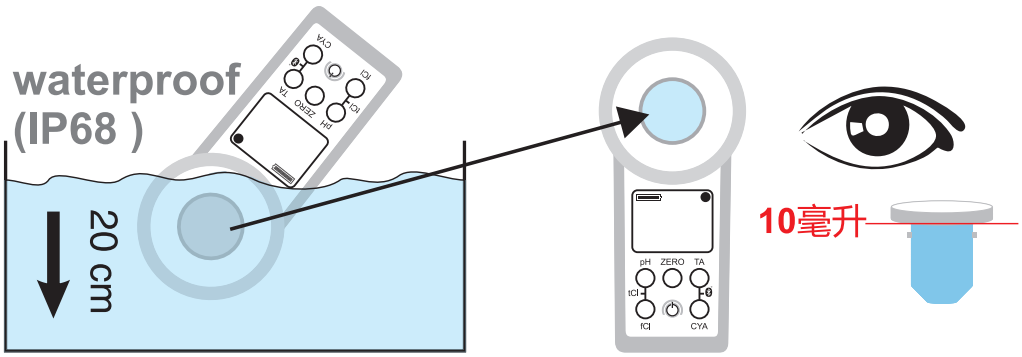
量程 : 0 - 500 mg/l (ppm)

试剂
POL20TH1
POL10TH2

1 用池水清洁几次取样杯

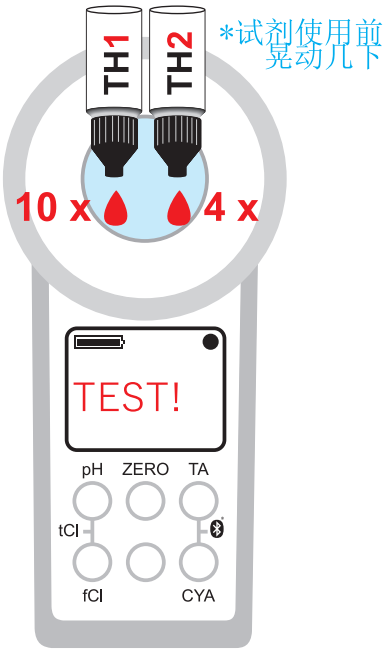


2 水面*20*公分以下，取样杯中取10毫升水样

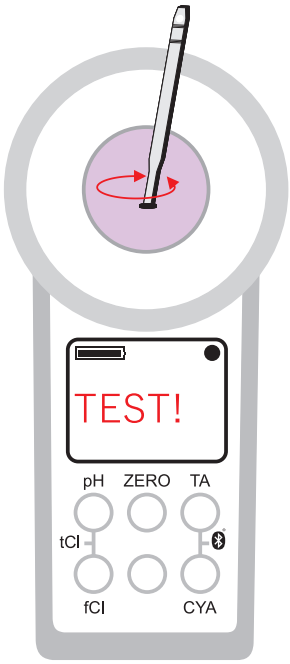


Total Hardness 总硬度

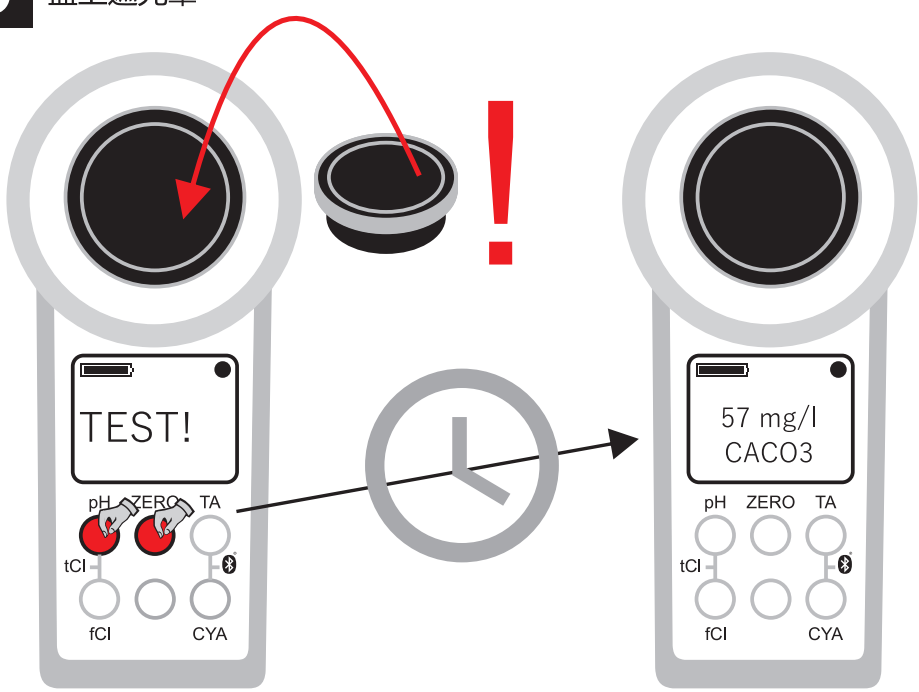
3 取样杯中滴入10滴TH1试剂
然后滴入4滴TH2试剂



搅拌均匀混合 **4**



5 盖上遮光罩



同时按下PH和ZERO键开始测试

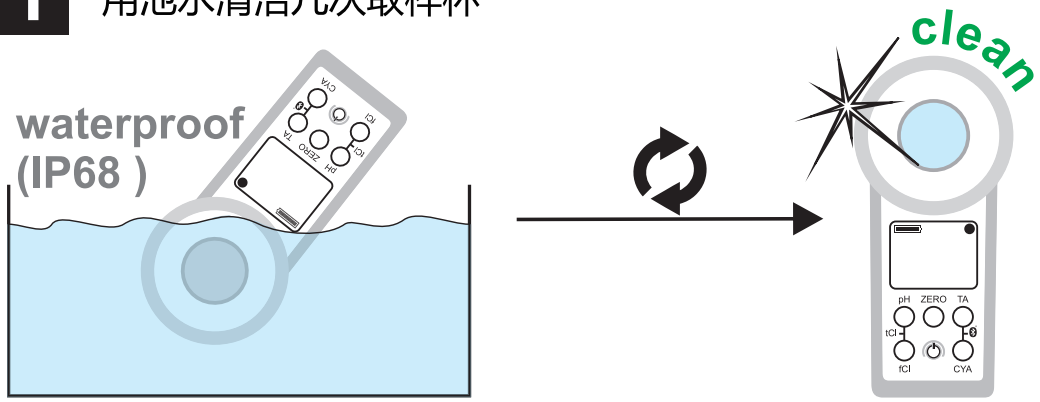
等待显示总硬度结果(CACO3)

Calcium Hardness
钙硬度

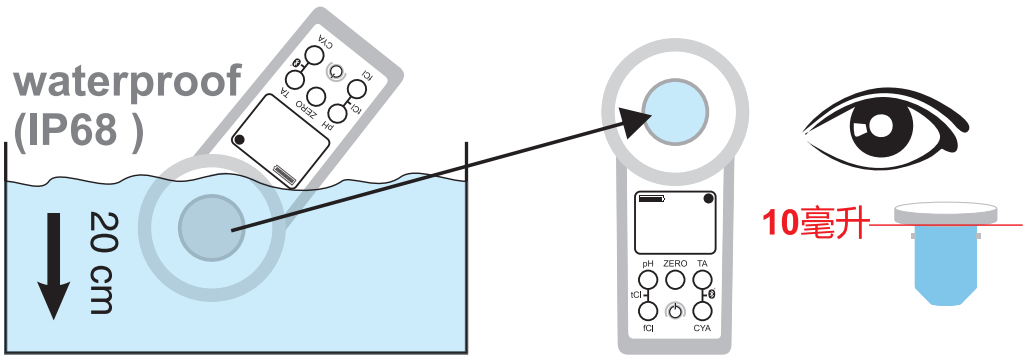
量程 : 0 - 500 mg/l (ppm)

试剂
POL20CaH1
POL20CaH2

1 用池水清洁几次取样杯

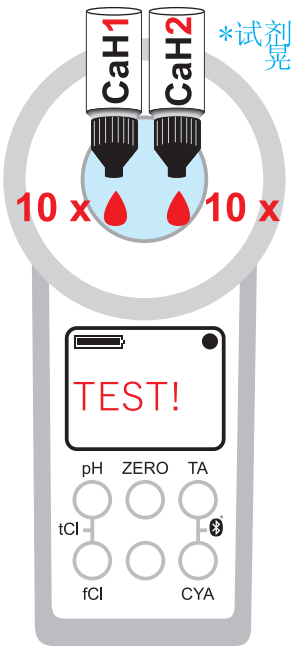


2 水面*20*公分以下，取样杯中取10毫升水样

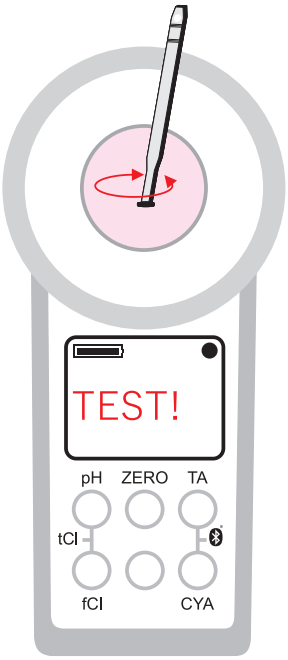


Calcium Hardness 钙硬度

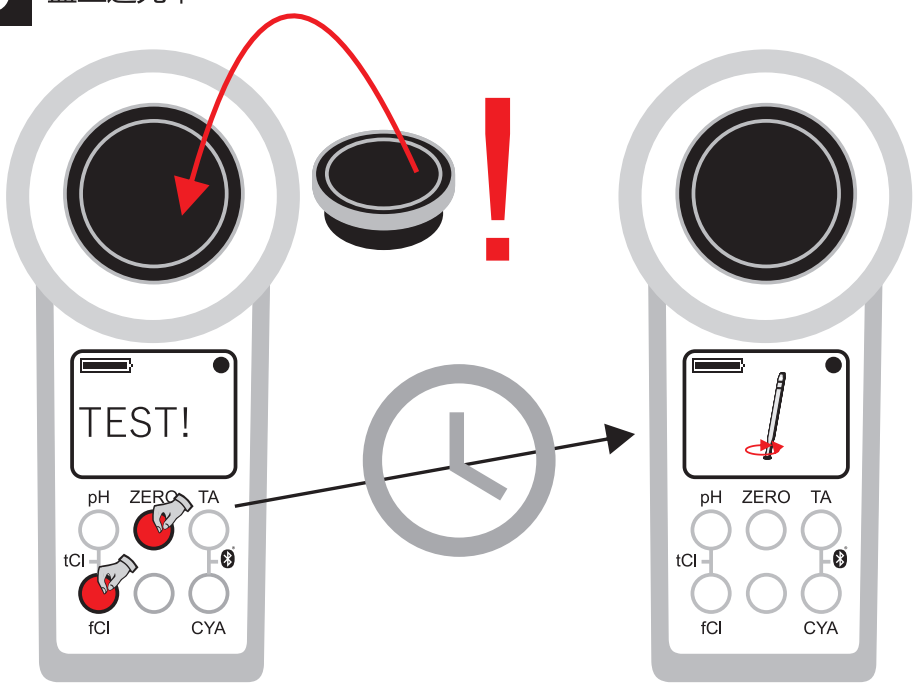
3 取样杯中分别滴入10滴CaH1和CaH2试剂



搅拌均匀混合 **4**



5 盖上遮光罩

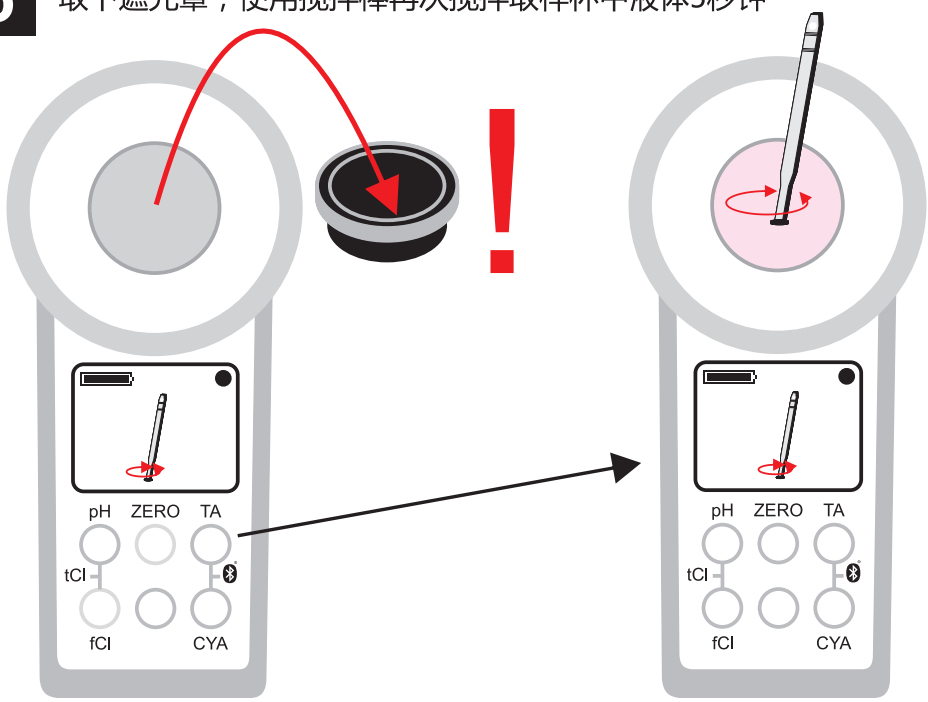


同时按下fCl和ZERO键开始测试

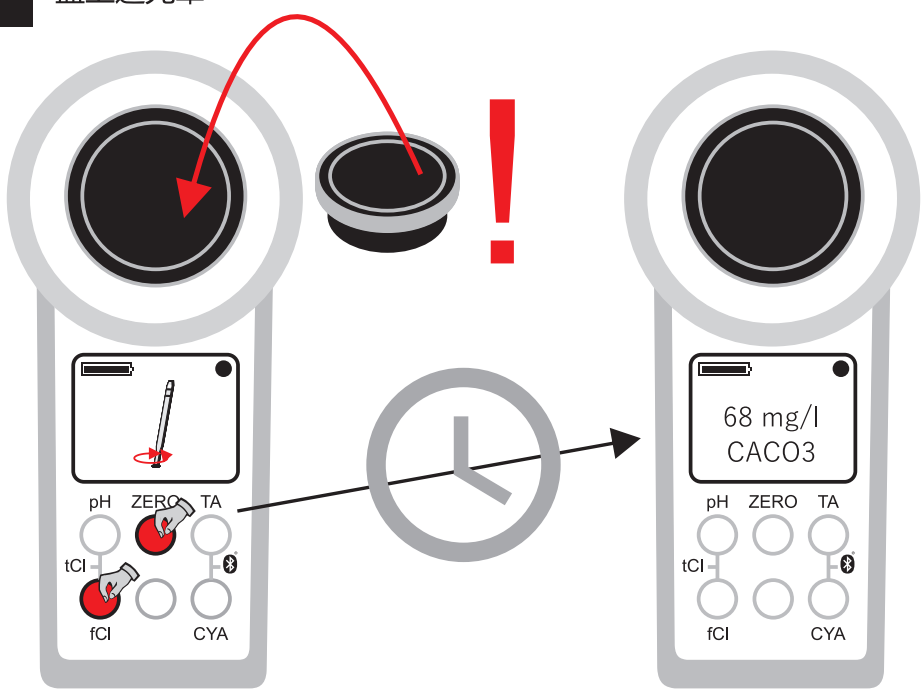
等待屏幕显示搅拌棒的标志

Calcium Hardness 钙硬度

6 取下遮光罩，使用搅拌棒再次搅拌取样杯中液体5秒钟



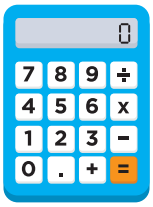
7 盖上遮光罩



同时按下fCl和ZERO键开始测试

等待显示钙硬度结果(CACO3)

Hardness Conversion　硬度換算



	$CaCO_3$ mg/l	°dH* (KH)	°e* (CH)	°f* (DC)
1 mg/l $CaCO_3$	1	0.056	0.07	0.1
1 mmol/l $K_{S\ 4,3}$	50	2.8	3.5	5.0

OR-UR / Dilution OR-UR/稀释

OR = Overrange / UR = underrange. Test result is outside the range of the method. OR results can be brought into measurement range by dilution. Use syringe to take only 5ml (or 1ml) sample water plus 5ml (9ml) distilled water. Test again and multiply results times 2 (times 10). Dilution does not work with „pH “ measurement.

OR表示超过量程/UR表示低于量程。当测试结果超出了测试方法的量程时，可以通过稀释水样的方法来进行测试。用针管取5（1）毫升的水样，然后再取5（9）毫升的蒸馏水，混合后进行测试。测试结果乘以2（10）就可以得到实际的参数值。注意稀释的方法不适用于测试pH.

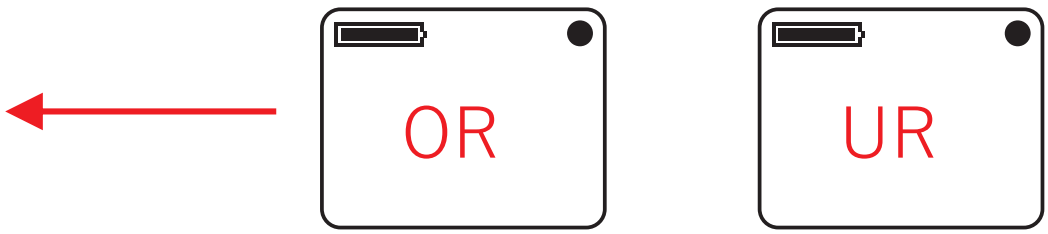
OR = Overrange (au dessus de la plage de mesure) / UR = underrange (en dessous de la plage de mesure). Le résultat du test est en dehors de la portée de la méthode. Si Affichage "OR" il faut diluer l'échantillon . Utilisez une seringue en plastique pour prendre 5 ml (ou 1 ml) d'eau échantillon et complétez j'usqu'à 10 ml avec de l'eau distillée. Testez à nouveau et multipliez le résultat par 2 (si vous avez pris 5 ml d'échantillon + 5 ml d'eau distillée) ou par 10 (si vous avez pris 1 ml d'échantillon et 9 ml d'eau distillée). La dilution ne fonctionne pas avec la mesure du "pH".

OR = Overrange / UR = Underrange
El resultado de la prueba está fuera del rango de este método. Los resultados "OR" pueden ser reducidos por dilución al rango de medición. Usar la jeringuilla y tomar 5 ml (o 1 ml) de agua de ensayo más 5 ml (9 ml) de agua destilada. Efectuar la medición y multiplicar el resultado por 2 (por 10). La dilución no es aplicable al parámetro "pH".

OR = Overrange / UR = Underrange
Das Testergebnis ist außerhalb des Messbereiches dieses Verfahrens. OR Ergebnisse können durch Verdünnung in den Messbereich gebracht werden. Verwenden Sie die Spritze und nehmen 5ml (oder 1ml) Testwasser plus 5ml (9ml) destilliertes Wasser. Führen Sie den Test durch und multiplizieren Sie das Ergebnis mal 2 (mal 10). Verdünnung ist nicht auf den Parameter "pH" anwendbar.

OR = Overrange / UR = Underrange
Il risultato del test è fuori del campo di misura di questo processo. Risultati "OR" possono essere essere portati nel campo di misura mediante diluizione. Utilizzare la siringa e prendere 5ml (o 1 ml) acqua di prova più 5ml (9 ml) di acqua distillata. Eseguire il test e moltiplicare il risultato per 2 (per 10). La diluizione non è applicabile
al parametro "pH".

Error codes 错误码



BAT!: Change batteries • 更换电池

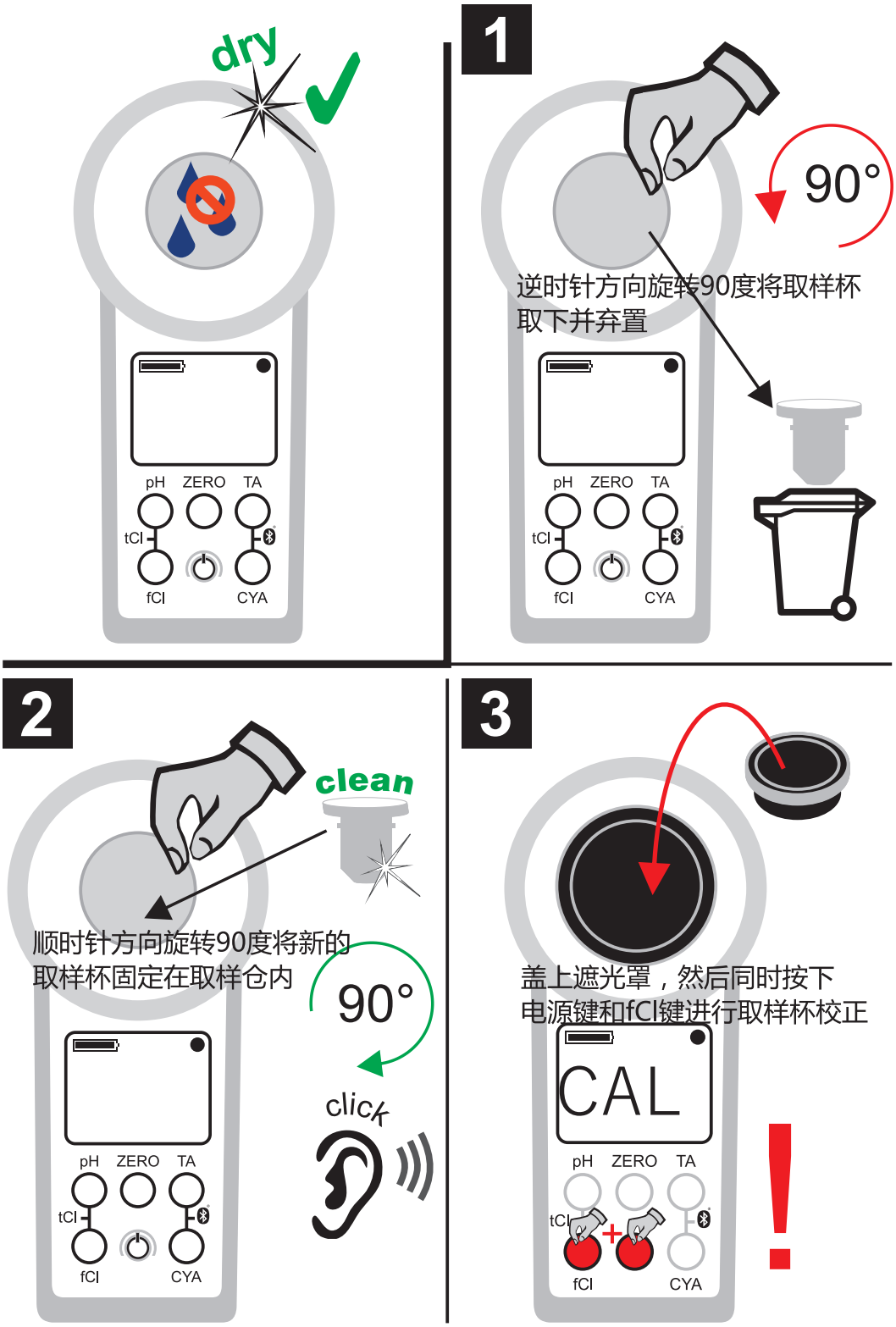
Err02: (too dark) Clean measurement chamber or dilute sample
（太暗了）请清洗取样杯或者稀释水样

Err03: (too bright) Don ‘t forget light shield during measurement
（太亮了）请把遮光罩盖在取样杯上

Err04: Repeat ZERO and TEST
需要进行归零操作，然后进行测试

Err05: Ambient temperature below -5°C or above 60°C
环境温度低于 -5°C 或超过60°C

Changing the cuvette 更换取样杯



Accessories • 试剂及配件

Reagents
试剂

POL01-Nf	20/20/10/10/10 Phenol Red / DPD N° 1 / DPD N° 3 / CYA-Test / Alkalinity-M Photometer
TbsPph50	50 x Phenol Red Photometer
TbsPD150	50 x DPD N° 1 Photometer
TbsPD350	50 x DPD N° 3 Photometer
TbsPD450	50 x DPD N° 4 Photometer
TbsPCAT50	50 x CYA-Test Photometer
TbsPHP50	50 x Hyd. Peroxide LR Phot.
TbsPHPHR50	50 x Hyd. Peroxide HR Phot.
TbsHAPP50	50 x Acidifying PT Photometer
TbsPTA50	50 x Alkalinity-M Photometer
TbsHGC50	50 x Glycine
POL20TH1	20ml POLTH1 (50 tests)
POL10TH2	10ml POLTH2 (50 tests)
POL20CaH1	20ml POLCaH1 (50 tests)
POL20CaH2	20ml POLCaH2 (50 tests)

Spare parts
配件

POLsp-kv	Replacement cuvette/取样杯
POLsp-str	Plastic stirring rod/搅拌棒
POLsp-ls	Rubber light shield/遮光罩
POLsp-box	PoolLab carrying box/包装盒

编号		指 标	要求范围	普量检测套件针对 A 项目和 B 项目的检测
A	1	游离性余氯/(mg/L)	0.3−1.0	A: 配套试剂可直接检测项目
	2	化合性余氯/(mg/L)	≤0.4	
	3	浸脚池游离性余氯(mg/L)	5−10	
	4	pH 值	7.0−7.8	
	5	氰尿酸/(mg/L)	≤ 50	
B	6	氧化还原电位/(ORP/mV)	≥ 650MV	B: 需要选配试剂和仪器才可检测项目
	7	尿素/(mg/L)	≤ 3.5	
	8	浊度/(NTU)	≤ 1	
9		大肠菌群/(CFU/100mL)	阴性	细菌总数和大肠杆菌无法现场测试,需要在恒温箱内培养之后检测。
10		菌落总数/(CFU/mL)	≤ 200	
11		臭氧/(mg/m³)	-----	-----
备注: 化合氯：测了余氯后再测总氯，总氯一余氯= 化合氯				

14 Detectable items of poollab 1.0
普量检测仪可检测 14 个参数

NO	Parameter	Measurement−Range
1	Free Chlorine 游离性余氯	0.00−6.00(mg/L)
2	Combined Chlorine 化合性余氯	0.00−6.00(mg/L)
3	Swimming pool footbath Chlorine 浸脚池游离性余氯	5.0−10.0(mg/L)
4	PH 值	6.5−8.4
5	Cyanuric Acid 氰尿酸	0−160mg/L(ppm)
6	Total Chlorine 总氯	0.00−6.00(mg/L)
7	Hydrogen Peroxide 过氧化氢低量程	0.00−2.90mg/L(ppm)
8	Hydrogen Peroxide 过氧化氢 高量程	0.00−200mg/L(ppm)
9	Ozone 臭氧	0.00−4.00mg/L(ppm)
10	Total Alkalinity 总碱度	0−300mg/L(ppm)
11	Total Hardness 总硬度	0−500mg/L(ppm)
12	Calcium Hardness 钙硬度	0−500mg/L(ppm)
13	Bromine 溴	0.0−13.5mg/L(ppm)
14	active oxygen 活性氧	0.0−30.0mg/L(ppm)

试剂订购(reagents order)

(Item reagents) 试剂描述	订购编码(Order No)		
	100 次检测 (50/times)	250 次检测 (250/times)	500 次检测 (500/times)
DPD 1 号试剂包	PLDPDN1100	PLDPDN1250	PLDPDN1500
DPD 3 号试剂包	PLDPDN100	PLDPDN3250	PLDPDN3500
PH Phenol Red 试剂包	PLPH100	PLPH250	PLPH500
Alkalinity-M 总碱度试剂包	PLALK100	PLALK250	PLALK500
CYA-Test 氰尿酸试剂包	PLCYA100	PLCYA250	PLCYA500
Glycine 甘氨酸试剂包	PLAUI100	PLAUI250	PLAUI500

Service Guarantee 服务保障

1 Free: one and a half year (18 months) warranty period for Poollab1.0 photometer from the date of purchase. Damage caused by accidental injury or unauthorized repair or abuse is not included.Instrument damage caused by contamination of measuring room is not covered by warranty.

1 免：普量光度计自购买之日享有一年半（18 个月）的免费质保期，意外伤害或者未经授权的修理及滥用所造成的损坏不包含在内。由于测量室污染造成的仪器损坏不在保修 范围内。

2 Replacement: without any reason, the lifetime warranty of the poollab1.0 from the date of purchase, you make up 50% of the discount in the old machine for a new one.

2 换 : 无需任何理由，购买之日至终身，补差价五折即可以旧机换新机。

Disposal

Batteries
According to EC Guideline 2006/66/EC, user is obliged to dispose in a proper manner by returning worn out batteries to dedicated collection places such as any shop selling batteries. Batteries must not be disposed of in normal domestic waste.

Device
According to EC Directive 2002/96/EC, electronic devices must not be disposed of in normal domestic waste. The manufacturer of this device, Water-i.d. GmbH, Daimlerstr. 20, D-76344 Eggenstein will dispose of your PoolLab Photometer free of charge (not including costs of sending the device to us). Send your PoolLab for disposal -freight prepaid- to the address shown above.

CE compliance statement

We, the manufacturer of the PoolLab 1.0 Photometer hereby declare compliance of PoolLab 1.0 Photometer with the essential requirements in accordance to the Directive 2014/53/EU of the European Parliament and of the Council of April 16th, 2014:

ETSI EN 300 328 (V2.1.1)
EN 62479 (2010)
ETSI EN 301 489-1 (V2.1.1)
ETSI EN 301 489-17 (3.1.1)
EN 61326 (2013)
EN 61010-1 (2010)

FCC Part 15 compliance statement
IC licence-exempt RSS compliance statement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Licence-Exempt Radio Apparatus

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus
This device complies with FCC and Industry Canada RF radiation exposure limits set forth for general population (uncontrolled exposure). This device must not be collocated or operating in conjunction with any other antenna or transmitter.
Cet appareil est conforme aux limites FCC et Industry Canada concernant l'exposition aux rayonnements RF établies pour le grand public. (Environnement non-contrôlé)
Cet émetteur ne doit pas être co-situé ou fonctionner conjointement avec une autre antenne ou un autre émetteur.

Changes or modifications not expressly approved by Water-i.d. GmbH could void the user‘s authority to operate the equipment.

FCC ID:	2ALRR-POOLLAB10
IC:	22610- POOLLAB10
Model:	POOL LAB 1.0

Certificate • Certificat • Certificado
Zertifikat • Certificato

CERTIFICATE OF COMPLIANCE

We hereby certify that the device

PoolLab 1.0

With it‘s serial number as stated below,
has passed intensive visual and technical
checks as part of our QM documentation.
We confirm the device got factory calibrated.

Water-i.d. GmbH (Germany)

Andreas Hock, Managing Director
Water-i.d. GmbH • Daimlerstr. 20 • D-76344 Eggenstein • Germany

Water-i.d. is certified according to ISO 9001:2016

S/N
Manufacturing date