

## Leak Detector

### Electronic Refrigerant Leak Detector

#### Applications

- 1.The leak-detect in vocation of freeze, refrigeration, and air-conditioner
- 2.The leak-detect for air-conditioner in the car
- 3.Detect leaks in other systems and storage/recovery containers. It will respond to all halogen gases (including Chlorine of Fluorine) refrigerants. This includes, but is not limited to:  
CFCs e.g. R12, R11, R500, R503 etc  
HCFCs e.g.R22, R123,,R124,R502 etc  
HFCs e.g.R134a, R404a, R125 etc  
And other mixtures, e.g. AZ-50 HP62 MP39 etc
- 4.Detect ethylene oxide gas leaks in hospital sterilizing equipment (it will detect the halogenated carrier gas)
- 5.Detect SF-6 in high voltage circuit breakers
- 6.Detect most gases that contain Chlorine, Fluorine, and Bromine (halogen gases)
- 7.Detect cleaning agents used in dry cleaning applications such as per chloroethyl
- 8.Detect halogen gases in fire-extinguishing system

#### CPU-1G

We are proud to present this tool as the most stable and sensitive negative corona leak detector ever made. We have incorporated all of our experience and years of customer feedback into our product, in the hope of providing our valued customers with the best of everything: price, performance and reliability.

An advanced microprocessor is the heart of this unit. Its digital processing permits better management of circuitry and sensing tip signal than ever before possible. Additionally, the number of components used in the circuit is reduced nearly 40%, increasing reliability and performance. The microprocessor monitors the sensing tip and battery voltage levels 4000 times per second. Compensating for even the most minor fluctuations in signal. This translates into stable and dependable tool in almost any environment.

Convenience features have been added to enhance the usability of the CPU-1G. Seven levels of sensitivity provide an increase of 64 times from level 1 to level 7. Unique Tri-Color LED's show a progressive and wide ranging leak size indication, communicate the sensitivity level, and provide a true voltage indication of battery power level. A tactile keypad controls all functions of operation. A revolutionary new case design gives the user grip a control, and places the visual indicators in direct sight during use.



Batteries	2 x AA battery (3 VDC)
Sensor Life	Approx 30 hours
Battery Life	Approximately 30 hours under normal condition
Max. Sensitivity	R12,R22,R134a are certified to ≤6 g/yr
Ultimate Sensitivity	≤3 g/year for All halogen based refrigerants
Operation Temperature	0-52 °C
Work Mode	Continuous, no limit
Warm up Time	Approximately 6 sec
Response Time	Instantaneous
Reset Time	2 sec
Probe Length	35.5 cm Flexible, stainless probe
Weight	560g
Dimensions	22.9 x6.5x6.5 cm

#### Features:

- 1.Microprocessor control, with advanced digital signal processing
- 2.Tricolor visual display
- 3.Seven levels of sensitivity provide an increase of up to 64
- 4.Tactile keypad controls
- 5.Real time sensitivity adjustment
- 6.Battery test function
- 7.Battery voltage indication
- 8.Detect ALL halogen refrigerants
- 9.True mechanical pumping provides positive airflow through sensing tip
- 10.Mute feature included
- 11.Cordless and portable, operates on 2 cell batteries
- 12.Carrying case included
- 13.Flexible and stainless probe
- 14.Optional carrying holster
- 15.Optional reference leak source
- 16.Two-year warrant

## CPU-200

CPU-200 is a newly high performance intelligent halogen leak detector. The new shell designed with LED displaying is elegant, easily-carried, easy operation, visual and clear display.



Batteries	2 x AA battery (3 VDC)
Sensor Life	Approx 30 hours
Battery Life	Approximately 30 hours under normal condition
Max. Sensitivity	R12,R22,R134a are certified to $\leq 6$ g/yr
Ultimate Sensitivity	$\leq 3$ g/year for All halogen based refrigerants
Operation Temperature	0-52 °C
Work Mode	Continuous, no limitation
Warm up Time	Approximately 6 sec
Response Time	Instantaneous
Reset Time	2 sec
Probe Length	35.5 cm Flexible, stainless probe
Weight	200g
Dimensions	17,x3.4x5.5 cm

### Features:

1. Visual display and single light diode displays the leak degree in large range in the form of gradually lights the light.
2. Providing 6 levels of sensitivity to set the real-time cycle adjustment
3. Easy operation with pushbutton
4. Battery checked function with tricolor display
5. Detect all kinds of halogenated refrigerants.
6. The high effective true mechanical pumping provides positive airflow through sensing tip, which can improve the sensitivity and response speed.

## CPU-C

Microcomputer processor control with advanced digital signal collecting and processing ability, 6-level single color alarm, convenient and practical four key operation keypad, advanced functions with fast RESET key, 6-level sensitivity adjustable and battery voltage display, an economic and practical new detector.



Batteries	2 x AA battery (3 VDC)
Sensor Life	Approx 20 hours
Battery Life	Approximately 30 hours under normal condition
Max. Sensitivity	R12,R22,R134a are certified to $\leq 14$ g/yr
Ultimate Sensitivity	$\leq 3$ g/year for All halogen based refrigerants
Operation Temperature	0-52 °C
Work Mode	Continuous, no limit
Warm up Time	Approximately 6 sec
Response Time	Instantaneous
Reset Time	2 sec
Probe Length	35.5 cm Flexible, stainless probe
Weight	560g
Dimensions	22.9 x6.5x6.5 cm

### Features:

1. Microprocessor control, advanced digital signal processing
2. Single color visual display
3. Seven-level sensitivity provide an increase of up to 64x
4. Tactile keypad
5. Real time sensitivity adjustment
6. Battery voltage indication
7. Certified to delicacy for detecting R134a, R12, R22, etc.
8. Detect all the halogen gases
9. True mechanical pumping provides positive air flow through sensing tip
10. One-year warranty

### CPU-6000

Incorporated with advanced leak detect technology, CPU-6000 is our new product with the functions of easy operation. Stable function and small appearance. It's an ideal and economic halogen leak detector.



Batteries	2 x AA battery (3 VDC)
Sensor Life	Approx 20 hours
Battery Life	Approximately 50 hours under normal condition
Max. Sensitivity	R12,R22,R134a are certified to $\leq 16\text{g/yr}$
Ultimate Sensitivity	$\leq 6\text{ g/year}$ for All halogen based refrigerants
Operation Temperature	0-52 °C
Work Mode	Continuous, no limitation
Warm up Time	Approximately 10 sec
Response Time	Instantaneous
Reset Time	2 to 10sec
Probe Length	20 cm Flexible, stainless probe
Weight	560g
Dimensions	22.9 x6.5x6.5 cm

#### Features:

1. Detect all kinds of halogenated refrigerants.
2. Sensitivity adjusted at any time and it can be adjusted automatically to the best state of detecting
3. Inner precise IC with Ultra-Low power consume circuit design, more stable, longer battery time
4. Double-color visual display of battery voltage
5. Excellent sensor, high sensitivity, longer use time

### CPU-100

CPU-100 halogen leak detector, as the exquisite unit of our company with its feature of higher performance versa lower price, has powerful function and high sensitivity, and is stable and easy to operate.



Batteries	2 x AA battery (3 VDC)
Sensor Life	Approx 20 hours
Battery Life	Approximately 50 hours under normal condition
Max. Sensitivity	R12,R22,R134a are certified to $\leq 16\text{g/yr}$
Ultimate Sensitivity	$\leq 6\text{ g/year}$ for All halogen based refrigerants
Operation Temperature	0-52 °C
Work Mode	Continuous, no limitation
Warm up Time	Approximately 10 sec
Response Time	Instantaneous
Reset Time	2 sec
Probe Length	25.5cm Flexible, stainless probe
Weight	560g
Dimensions	22.9 x6.5x6.5 cm

#### Features:

1. Detects all kinds of halogenated refrigerants.
2. Single color LED display with 6-level leak alarm.
3. Tricolor display of battery voltage.
4. RESET time sensitivity adjustment.
5. Real time sensitivity adjustment.
6. Adopts quality sensors that can detect slightly leaked halogen gases.

**UV Refrigerant Leak Detector**  
**Deluxe UV Leak Detection Kit**  
 UV-0701



- 1pc UV Leak Detection light UV-37092
- 1pc Protection Glass UV-3PFT
- 1pc Cleaner UV-70101
- 1pc Needle Charger UV-681
- 1pc One – Way Valve UV-682
- 1pc Pipe Charger UV-686
- 1pc Quick Coupler UV-683
- 1set Discovery dye for R134a A/C systems 1pc for 1 A/C UV-900033
- 2pcs Discovery dye For R134a A/C Systems 1pc for 4 A/C UV-900337

UV-0702



- 1pc UV Leak Detection light UV-37092
- 1pc Protection Glass UV-3PFT
- 1pc Cleaner UV-70101
- 1pc Needle Charger UV-681
- 1pc One – Way Valve UV-682
- 1pc Pipe Charger UV-686
- 1pc Quick Coupler UV-683
- 1set Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-900033
- 1pc Discovery dye For R134a A/C Systems 1pcs for 4 A/C UV-900337
- 1pc Discovery dye UV-95031
- 1pc Discovery dye UV-91031

UV-0703



- 1pc UV Leak Detection light UV-37092
- 1pc Protection Glass UV-3PFT
- 1pc Needle Charger UV-681
- 1pc One – Way Valve UV-682
- 1pc Pipe Charger UV-686
- 1pc Quick Coupler UV-683
- 1set Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-900033
- 2pcs Discovery dye For R134a A/C Systems 1pcs for 4 A/C UV-900337
- 1pc Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-90Q103
- 1pc Open Valve UV-680

UV-0704



- 1pc UV Leak Detection light UV-37092
- 1pc Protection Glass UV-3PFT
- 1pc Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-90Q103
- 1pc Open Valve UV-680
- 1pc Needle Charger UV-681
- 1pc One – Way Valve UV-682
- 1pc Pipe Charger UV-686
- 1pc Quick Coupler UV-683
- 1set Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-900033
- 1pc Discovery dye For R134a A/C Systems 1pcs for 4 A/C UV-900337
- 1pc Discovery dye UV-95031
- 1pc Discovery dye UV-91031

## UV-0706



- 1pc UV Leak Detection light UV-37092
- 1pc Protection Glass UV-3PFT
- 1pc Needle Charger UV-681
- 1pc One – Way Valve UV-682
- 1pc Pipe Charger UV-686
- 1pc Quick Coupler UV-683
- 1set Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-900033
- 1pc Discovery dye For R134a A/C Systems 1pcs for 4 A/C UV-900337
- 1pc Discovery dye for R134a A/C systems 1pcs for 1 A/C UV-90Q103
- 1pc Open Valve UV-680

### UV Leak Detection Light

#### UV-37092

3 AAA 1.5V battery, no wire; Alalloy, 9 head HLED; NO-heat; length 11.5cm, diameter 3.5cm; service time  $\leq$  8 hour  
Net weight: 84g (No battery)



#### UV-3818P

Automatic low battery alarm ,wireless, easy to carry, 6.0V voltage, safe handling, Instant startup, do not need pre-heating, Long shelf life, 10 times longer than the traditional lamp, guarantee for 1year, Low energy consumption, one tenth of the traditional lamp, well ventilated, Easily converted to normal lamp, Li-ion battery, Service time  $\leq$  3 h, 36 HLED, Length 17cm, diameter4.5m  
Net weight: 230g



#### UV-383P

Automatic low battery alarm, Wireless, easy to carry, 7.4V voltage, safe handling, Instant startup, do not need pre-heating, Long shelf life, 10 times longer than the traditional lamp, guarantee for 1year, Low energy consumption, one tenth of the traditional lamp, well ventilated, Easily converted to normal lamp, Li-ion battery, Service time  $\leq$  3 h, 36 HLED, Length 26.5cm, diameter6.3cm  
Net weight: 660g



#### UV-386P

Wireless, easy to carry, 6V voltage, safe handling, instant startup, do not need pre-heating, long shelf life, 10 times longer than the traditional lamp, guarantee for 1year, Low energy consumption, one tenth of the traditional lamp, well ventilated, Easily converted to normal lamp, Lead-acid batteries (rechargeable)  
Net weight: 1.5Kg





### UV Detection Enhancing Glasses

UV3P

To protect eyes from direct of light in detecting leak



### Quick Coupler

UV-684



### Charging Hose

UV-686

Apply to A/C leak discovery dye



### Check Valve

UV-682

Apply to A/C leak discovery dye



### Needle Charger

UV-681

Apply to R12/R134a/R22 system



### Needle Charger

UV-685

apply to R12/R134a/R22 system



### Needle Charger

UV-671

apply to R12/R134a/ R22 system in beltline of car / air conditioner



### Gun Charger

UV-688

Apply to UV-618



### Gun Charger

UV-689

Apply to UV-689 or UV-618



### Gun Charge Cylinder

UV-618 (175ml)

UV-624 (230ml)

Apply to all system ,circulate



### Dye and Oil Injector

PRJ5

1/2"ACME-M/1/2"ACME-F (R134a)

PRJ6

1/4"SAE-F x 1/4"SAE-M



### Oil Injector

- 1.Body and cap are rugged aluminum with an "O" ring seal. Male fitting is at one end of short length of hose with Schrader
- 2.Ball valve for control is on other end with a short length of hose
- 3.Valve depressor in female end

#### Applications

Add oil or UV dye to system

Easy connection to manifold hose

Push oil with refrigerant or pull in with vacuum



PR5078	PR5079	PR5080	PR5083	PR5084	PR5085		
1/2oz	2oz	4oz	1/2oz	2oz	4oz		
1/4"SAE Female x 1/4" QC Male			Quick coupler x 1/4" QC Male				
PR5086	PR5087	PR5088	PR5089	PR5086A	PR5087A	PR5088A	PR5089A
1/2oz	1/2oz	2oz	4oz	1/2oz	1/2oz	2oz	4oz
1/4"SAE Female			Quick coupler				

## A/C & R Universal Dye

Works with R134a, R404a, R407c, R410a, R507, or PAG、POE、AB and MO

Lowest cost per application

Excellent for large systems

### UV-900033

3ml  
Packing: PE  
1 Standard system



### UV-900037

7.5ml  
Packing: PET  
1 Standard system



### UV-90Q103

100ml  
Packing: Aerosol cans / Aluminum  
1 Standard system



### UV-900337

30ml  
Packing: PET  
4 Standard systems



### UV-901237

120ml  
Packing: PE  
16 Standard systems



### UV-901837

175ml  
Packing: PE Gun Charge cylinder



### UV-902437

233ml  
Packing: PE Gun Charge cylinder



### UV-902537

240ml  
Packing: PE  
36 Standard systems



## A/C & R Universal Dye (Cylinder object)

### UV-90P103

Works with R134a、R404a、R407c、  
R410a、R507、R12、R22 and CFC.



## Lubricant System Dye

For all oil-based fluids (Do not use for brake systems)

**UV-91031** 30ml 4 Standard systems

**UV-91121** 120ml 16 Standard systems

**UV-91241** 240ml 32 Standard systems

**UV-914L3** 4000ml 532 Standard systems

**UV-915G3** 20L 2666 Standard systems



## Water Coolant System Dye

For coolant systems and auto body leaks

**UV-95031** 30ml 4 Standard systems

**UV-95121** 120ml 16 Standard systems

**UV-95241** 240ml 32 Standard systems

**UV-954L2** 4000ml 532 Standard systems

**UV-955G2** 20 L 2666 Standard systems



## Cleaner

### UV-70101

To clean the working area and remove residue,  
100ml/bottle.



## Fluorescent Penetrants

Each type fluorescent penetrants have the same rank classify about Sensitivity: Low、Medium、Higher、Super

**Water-Washable UVPW810**

**Hydrophilic Post-Emulsification UVPH820**

**Lipophilic Post-Emulsification UVPL830**

**Solvent-Removable UVPS840**

## Remarks:

- 1.Poly Run Leak Tracer Dyes of "POE" or "PAG" is used in Air-Conditioning System Where R12、R134a、R404a、R407c、R410a、R507 is Used;
- 2.Poly Run Leak Tracer Dyes of "Minerals Oil" is used in Air-Conditioning System Where R12、R122 is Used.
- 3.Standard System - means one car or household air conditioner.(or by ratio as: 200ml X 3.75%=7.5 ml, where 200ml is amount of cooling medium, then need to charge 7.5ml tracer reagent.)
- 4.Poly Run tracer reagent is compatible with other brand Lamp