

Raysun X-1
Multi-functional Stun Gun



Unique
Non-lethal Anti-violent Weapon



Features

- ◆ **Multi-Function, anti-Violence electrode shock gun (Stun Gun).**
- ◆ **Flexible of using different cartridges according to your purpose.**
- ◆ **Non-lethal weapon, can be used legally depending on the law and regulations of each country.**
- ◆ **X-1(D) has 33KV DC current output, much safe to human body; X-1(A) has 50KV AC current output, more powerful for incapacitating (especially to the target who is dressing a thick clothes); optional depend on the consideration of different areas and situations.**
- ◆ **Construct of robust carbon composite material to withstand 1.5m drop.**
- ◆ **Design for easy operation and carry.**





Multi-Functional

1. With *Cartridge of probes:*

Fire two probes up to a distance of 3.5M or 6M, which transmits pulsed energy that temporarily overrides the central nervous system of the target causing immediate incapacitation.

2. With *Cartridge of pepper powder / pepper bullet:*

Shoot pepper powder spray out up to a distance of 3 ~ 5M and pepper bullet up to over 20M, which will cause people swells the mucous membranes to make breathing difficult, and swells the veins in the eyes, causing the tears dropped and the eyes to close.



3. With ***Cartridge of rubber bullet:***

Used especially by law enforcement officers and military personnel in crowd control. Over 20 meters effective distance.

4. With ***Cartridge of paint bullet:***

Used especially by law enforcement officers and military personnel in crowd control. Over 20 meters effective distance.

5. With ***Cartridge of SOS Signal bullet:***

Shoot SOS Signal bullet out in the air up to a distance of approx. 100M.



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6. With ***Extended electric stick:***

For extending defense range to around 50cm.

7. Capable of drive stun with or without cartridge of probes installed.

8. Integrated powerful LED light featuring illumination/aiming/girding. It can simply change LED bulb to Laser aimer.



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Applications

Users:

- Law Enforcement:
Police, Coast Guard,
Special Forces, Military,
Security Guard, ...etc.
- Citizen Defense





Security mechanism

- ① Power On/Off switch
- ② Power ON beep
- ③ Safety and charge socket
- ④ Green LED for indicating power on and Red LED for indicating low battery
- ⑤ Bar-code on the cover of cartridge for ID



Safety to human body — Voltage & Current

➤ Testing unit:

- (1). 「 **National Taiwan Technology University** 」 ,
- (2). 「 **Industrial Technology Research Institute** 」
- (3). 「 **Electronics Testing Center,**
Taiwan 」 .

➤ Test report:

- ※ Peak open circuit arcing voltage: **DC 33KV ±10%**
- ※ Output Current: **<100μA ±2%(connect 100MΩ impedance load)**
- ※ Frequency: **0 Hz (DC)**

Testing unit in accordance with IEC479-1 international standard:
AC current below 500μA; DC current below 2,000μA will be no
dangerous to human body. If it is below 100μA, then it will be
completely harmless or life risk to human body.

➤ Test conclusion:

Certification of 「 **No safety misgiving about to normal human
body** 」 .

Testing report (1) – by Industrial Technology Research Institute



Testing report (2) – by National Taiwan Technology University



Testing report (3) – by Electronics Testing Center, Taiwan

ETC 財團法人台灣電子檢驗中心
ELECTRONICS TESTING CENTER

輸出開路電壓與電流測試報告

申請公司：誠益科技實業公司
製造商：金和工業有限公司
產品名稱：封裝機零件運轉機架
機架名稱：E1Y1100
產品型號：E-1
測試編號：ET-0019A-1397
報告完成日期：九十六年六月十四日

受檢產品
財團法人台灣電子檢驗中心
地址：臺南市安平區永興街100號(安平區公所對面)
電話：(06)207-0000 (總機) 傳真：(06)207-0000



ETC 財團法人台灣電子檢驗中心
ELECTRONICS TESTING CENTER

輸出開路電壓與電流測試報告

A. 測試條件及操作狀態：(請依表式填寫) 試驗日期：96年06月13日

測試儀器	儀器產品名稱與型號		
	測試儀器		
	Eisco Sinto Voltmeter Type 2045		
試驗環境	環境溫度：22.0℃	相對濕度：20.0 RH	風速：0.0 m/s
測試標準	本公司		

輸出開路電壓與電流測試結果

測試項目	測試結果
開路輸出 V _{OC} 電壓測試結果	電壓值：4.00V ± 2.5%

測試項目	測試結果
短電路輸出 I _{SC} 電流測試結果	電壓值：200V ± 2.5%

測試項目	測試結果
短電路輸出 I _{SC} 電流值 半載 100% 電流	電壓值：200V ± 2.5%
	電流值：0.200mA ± 2.5%

備註：1. 本測試報告只供其提供測試用。
2. 本測試報告只供其提供測試用，本報告中心人員，不得隨意將報告內容。

測試員：劉其仁  董台成

Safety to human body — Projectile Lethality

◆ 「 Cartridge projectile initial speed 」 Test :

➤ Testing unit:

(1). 「 Automotive Research & Testing Center 」

(2). 「 Central Police University 」

(3). 「 Chung Cheng

Institute of Technology, National Defense University 」

➤ Test report:

※ Initial speed at **10cm** between gun exit is **39.7(m/s)**, so its taking energy per square centimeter is **12.9356 joules**;

※ Speed at **300cm** between gun exit is **15.2(m/s)**, so its taking energy per square centimeter is **2.0216 joules**. ※

According to the verification standard of lethality by Judicial Yuan, R.O.C. is below **20 joules**, so our cartridge is 「 **Non-lethal** 」 .



Current Safety & Shaking ability testing comparison



(1). *Raysun X-1*
DC current
(Frequency 0Hz)



(2). *Taser Gun*
AC current



(3). *Local stun device*
+ *Taser cartridge*
AC current

Much more Efficient !

Electric shock on human body simulation test comparison (Ray X-1 vs. Taser Gun)



**Much
more
Safe !**

Cramping and shrinking down



Whole body stiffing down



Effectiveness & Safety Test (1)

Human body Testing



Effectiveness & Safety Test (2)

Animal Testing





Manufacture & sale permit

- ✦ Raysun X-1 has been permitted to manufacture and sell by the Ministry of the Interior and National Police Agency, Taiwan, R.O.C.



Standard package included

- | | |
|---|---|
| 1. <i>Raysun X1</i> | 1 |
| 2. Cartridges : | 5 |
| * Probes (Yellow) *2 pc | |
| * Pepper powder (Red) *2 pc | |
| * Rubber bullet (Black) *1 pc | |
| 3. Battery Charger | 1 |
| 4. Belt holster for <i>Raysun X1</i> | 1 |
| 5. Belt bag for 2 backup cartridges | 1 |
| 6. Package Carrying Bag | 1 |
| 7. Operation Manual | 1 |
| 8. Practice Target | 1 |

Options

1. Cartridge of paint, pepper & SOS signal bullet
2. Extended electric stick
3. Holster with non-slip leg strap



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2003年10月10日

Thanks for

YOUR attention

