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COMPANY PROFILE

INTRODUCTION

Adams Electronics is firmly positioned as market leader within the field of metal detection. The company is highly responsive to the varying needs of its customers by continuously formulating innovative new ideas and products for the ever changing and ever challenging needs of the security professional. This is reflected in the superior performance and quality of its products, together with unsurpassed customer service.

HISTORY

Adams Electronics was originally founded in 1965 with the introduction of the first truly portable hand held metal detector (*Model B100*). This detector was designed by John D. Adams. From this beginning the company quickly expanded. Today, Adams Electronics is under the personal direction of Robert E. Adams as Chairman. The company is now dedicated to designing and manufacturing the most comprehensive range of portable metal detector products available, with uncompromising standards for perfection, whether it be our general purpose models: *AD10-2 & AD11-V*, for use in airports, court rooms and general guarding applications, or our super high sensitivity models *AD2600S and ER-3000*, for more specialized applications, such as locating extremely small metal objects concealed deep within skin tissue or body cavities, with pin point accuracy.

With manufacturing facilities in both the United Kingdom and the United States of America, Adams Electronics products are in use extensively world-wide by customers with some of the most demanding and diverse applications.

Adams Electronics is also a contracted supplier to the U.K and U.S. Governments. With the great success of the model AD15 hand held metal detector within the United States prison systems. Adams Electronics has been able to set a previously unattainable standard and benchmark in specialized high sensitivity metal detection. This continued success is reflected in the more recent Ultra Series models AD2600S and ER3000 detectors.

THE FUTURE

With the introduction of the world's very first "**Hands Free**" metal detectors, the only metal detectors that the operator wears **on the hand** instead of holding **with the hand**. With these exciting new Models **MIT** and **HF-1**, together with the new highly advanced **AX777** ground search metal detector, Adams Electronics once again leads the field of specialist portable metal detection with design and innovation.

Our constant research and development produces the results that have earned Adams the kind of reputation that security professionals the world over, trust..... But don't take our word for it. Try our products and see the difference for yourself!



AD - SERIES

After many years of active service our “AD” series hand held metal detectors need no introduction. They have been operating around the clock under some of the harshest working conditions year after year.

As a result of our uncompromising standards in manufacturing and design, Adams Electronics has a continuous development program in progress. The ongoing improvement of micro-technology has allowed us to constantly upgrade our “AD” series detectors, maintaining our position at the cutting edge of modern technology.

With many thousands of these detectors in use around the world, the Adams AD Series detectors are the preferred choice of metal detector where superlative performance, durability and reliability are essential requirements.



AD10-2

Our general-purpose hand held metal detectors are designed and manufactured to endure 24- hour continuous use in the toughest of working environments.

After many years of reliable service our model AD10-2 is currently supplied world wide to Airports, Law enforcement, Federal, and State Departments, as well as Military and many other applications.

* **Sensitivity to 0.1 grams**

* **Detection mass – long alarm: large target - short alarm: small target**

* **Alarm indication: High intensity L.E.D and piezo sounder –**



AD11-2

Suitable for similar applications as our model AD10-2, Model AD11-2 also has a simultaneous audio/visual alarm facility, with the added ability, via a two-position rocker switch, to turn off the audio sounder, giving the operator a “visual only” alarm indication for more discreet user-operation.

This model has proven to be very successful for a wide range of applications including Airport security, VIP security screening Warehouse loss prevention, Nightclub security, Courtrooms, Law enforcement applications and many more.



AD11-V *Vibration Alert*

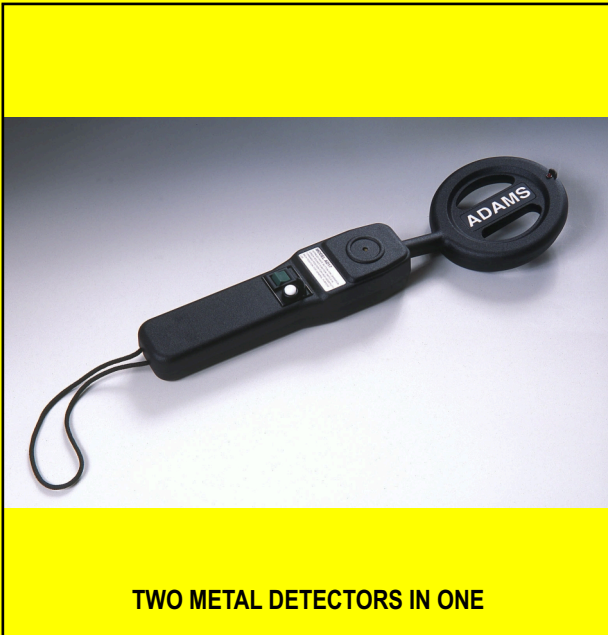
Model AD11-V has our standard simultaneous audio/visual alarm facility, but with the added ability, via a two-position rocker switch, to switch the detector to either standard “audio/visual” setting or “Vibration” only mode. This feature gives the AD11-V the ability to alert the operator of a potential weapon silently. This feature has proven very useful when working in a noisy environment or if the operator wishes to conduct a search procedure, while keeping eye contact with the subject being screened

AD16 – AD17



AD16

Our model AD16 has been very effective when the user demands greater sensitivity and a higher definition search capability. Airports, Police forces and Loss prevention officers are currently using our model AD16. With its built in digital auto ranging circuitry, this metal detector is very user-friendly and is ideally suitable for the specialized detection of medium size targets as well as for rapid, general personnel screening.



AD17

Adams Model AD17 is a fully automatic, high sensitivity hand held metal detector that is easy to use and is suitable for applications where a higher degree of performance is required. It features a two-position rocker switch. In the back position the rocker switch enables the AD17 to perform as a very effective, general-purpose metal detector with a very high operational speed and accuracy. With the rocker switch in the forward position the AD17 converts to a super high sensitivity detector requiring no manual adjustment. It is like having two metal detectors in one with just the flick of a switch. (Ideal for medium to small size targets)

TWO METAL DETECTORS IN ONE

AD15 (AD18) – AD2300



* Please note AD15 is also known as model AD18 outside of the USA.
Supplied with training video or CD

AD15

This highly respected and widely used model is accepted today as the *benchmark* of hand held metal detectors for use in prison and correctional applications worldwide.

The AD15 is particularly effective for locating tiny metal objects that may have been concealed, or ingested within body cavities, with pinpoint accuracy.

The AD15 has the ability to be a fully adjustable detector to allow for "*maximum find capability*". It also features a green two-position rocker switch or "Turbo Control", to the left of the on/off switch. In the forward position it enables the operator to fully adjust the detector's sensitivity to the desired setting. The operator can then conduct a super high sensitivity search sweep of the subject. By switching the "Turbo Control" to the *back* position, the AD15 can eliminate large amounts of static metal in flooring (i.e. re-bar or steel beams), walls and ceiling, while still being able to detect, a hand cuff key or a small piece of razor blade in the shoe or sock area, with precision and accuracy.



AD2300

Our model AD2300 is the first in our "Ultra Series" high sensitivity metal detectors. This fully automatic detector features high speed, high definition technology.

The AD2300 is operated in two modes: Forward position (1) rocker switch "ON" all the time. Position (2) "OFF" all the time. Directly to the right of the rocker switch is an alternative "periodical" push button switch, offering the user two options of operation, depending on the environment and application.

This makes our AD2300 suitable for applications that require a high sensitivity search procedure with no physical contact with the subject, or greater depth penetration into the target being screened.

SPECIFICATION FOR ADAMS HAND HELD AD SERIES METAL DETECTORS

AD10-2 / AD11-2 / AD11-V

Length: 362mm. Width: 55mm. Height: 30mm

Weight: 262 grms. including battery.

Sensitivity: Target size AD10-2 down to 0.1 grms. AD11-2/AD11-V down to 0.1 grms.

AD16

Length: 360mm. Width: 105mm (probe) Body 55mm. Height: 35mm.

Weight: 280grms. including battery

Sensitivity: Target size down to 0.05grms.

AD17 (AD14)

Length 360mm. Width 105mm (probe) Body 55mm. Height: 35mm.

Weight: 280grms including battery

Sensitivity: High factory internally pre-set Turbo sensitivity

AD15 (AD18)

Length 360mm. Width: 105mm (probe) Body: 55mm. Height: 35mm

Weight: 280grms. including battery

Sensitivity: High Sensitivity - Operator adjustable Turbo Control.

THE ABOVE MODELS MEET THE FOLLOWING TECHNICAL SPECIFICATIONS

Operating temperature: -20°C to +65°C

Storage temperature: -30°C to +80°C

Protection of unit against environmental conditions and waterproofing to IP64 (IEC 529)

Humidity: 98%

Tested and approved to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1 Radiated emissions

Conforms to international standards IEC, NILEC-0602.02 of FCC, FAA.

Medically tested and approved - No risk to persons with pacemakers.

Non interference to magnetic recorded material.

Battery condition constant monitoring. A prolonged alarm signals need to replace battery. When battery is exhausted a continuous audio/visual LED signal is produced.

Quiescent current 3mA

Alarm current: 6mA

Alarm indication by means of piezo audio alarm and High intensity L.E.D.

Sound: Switchable on/off allowing discreet detection (AD11-2)

"Vibration only" by means of rocker switch in forward position/Audio/Visual in back position: (AD11-V)

Battery inserted "cartridge" style - no wires or connectors for greater reliability.

No false alarms.

Battery: 9 volt block battery can be either replaceable 9 Volt 550mA hours or optional rechargeable NiCad 180mA hours

Minimum pressure push button switch operation.

Instant response to all metals.

Size of target indication: At constant sweep speed: short digital pulse = small target. Long pulse = large target

Medically tested and approved

No Risk to persons with pacemakers

2 YEAR WARRANTY ON ALL MODELS

SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE

AD 2600S AND ER3000



AD2600S

Adams model AD2600S is a direct development from our model AD15, in response to the varying needs of prison and correctional officers demands for a higher sensitivity, user-friendly metal detector, specifically designed for body cavity searches.

This device has become known and trusted as a metal detector that *really* gets the job done!

Now in use all over the world, the AD2600S has proved itself time and time again and is considered the only serious choice for the professional, where an extremely high level of performance is expected.

Supplied with training video or CD ROM



ER3000

The ER3000 has been specifically designed for the detection and location of tiny foreign metal objects that have been concealed or ingested deep within the skin tissue or body cavities.

This new technology advancement has established a new level of performance for super high sensitivity metal detection, giving the user the ability to detect objects that were previously impossible to detect with a standard hand held metal detector.

ER3000 has the ability to detect metal fragments that are concealed or buried deep within the skin tissue, making the Adams ER3000 a major step forward in the detection of weapons and contraband concealed within the body cavities.

SPECIFICATION FOR ADAMS HAND HELD ULTRA METAL DETECTORS ULTRA LOW POWER CONSUMPTION - ULTRA HIGH SPEED DETECTOR

AD2600S/ER3000//AD2300 - ULTRA SPECIFICATIONS

DIMENSIONS:	Length: 360mm. Width: 105mm (probe). Body 55mm. H35mm
WEIGHT:	Weight: 290 grams (AD2300); 295 grams (ER3000); 300 grams (AD2600S) including battery
SENSITIVITY:	Target Size better than 0.03 grams (Continuously adjustable: ER3000/AD2600S/AD2500)
OPERATING TEMPERATURE:	-20°C to +65°C
STORAGE TEMPERATURE:	-30°C to +80°C
HUMIDITY:	98%
INGRESS PROTECTION: (Waterproofing & environmental protection)	IP64 (IEC 529)
POWER CONSUMPTION:	
Standby Current:	Nil
Active Mode Current: (No detection)	Less than 1 mA(0.9 mA)
Alarm Mode Current: (metal detected)	6.5 mA
OPERATING TIME:	360 hours continuous at +25°C (alkaline battery) 100 hours continuous at +25°C (rechargeable battery single charge)
BATTERY:	9 Volt block battery MN 1604, 6LR61 or equivalent alkaline disposable or rechargeable.

Tested and approved to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1 Radiated emissions
Conforms to international standards IEC, NILEC STANDARD 0602.02 - FCC, FAA.
Medically tested and approved - No risk to persons with pacemakers.
Non interference to magnetic recorded material.

Full Battery Management System - Precision monitoring. Low voltage is signalled in two stages:
Yellow LED lights warning the user that the battery will need replacing or recharging in the near future.
When the battery is exhausted a continuous audio and Red + Yellow visual alarm signal is produced.

Alarm indication by means of piezo audio alarm and High intensity L.E.D.

Sound: Switchable on/off allowing discreet detection (AD2600S).

On/Off: by means of Rocker switch (permanently "on" or "Off") and or momentary pushbutton switch.

Speed of detection: Ultra fast; 'Detect - alarm - reset' ready for another target - 0.1 second

Size of target indication: At constant sweep speed: short digital pulse = small target. Long pulse = large target

Battery inserted "cartridge" style - no wires.

No false alarms.

Instant response to all metals.

Medically tested and approved

No Risk to persons with pacemakers

HF-1 DETECTOR GLOVES



**ADAMS
PRESENTS
ANOTHER NEW
INNOVATIVE
CONCEPT IN
METAL
DETECTION
TECHNOLOGY**

HANDS FREE METAL DETECTION WITH THE PROTECTION OF KEVLAR

Adams new model HF-1 detector gloves give the operator the ability to have "Hands Free" metal detection with the protection of "Kevlar". This gives the wearer the added protection from infected hypodermic needles, knife and razor blade wounds, during pat-down procedures, but still retain the ability to search and detect for concealed weapons or contraband with the aid of a powerful metal detector. When the HF-1 has detected a metal object it will give an alarm indication by means of a vibration against the operator's wrist.

Adams HF-1 detector gloves are of a very rugged and durable construction. They are light-weight and comfortable to wear, as well as being easy to use, with no adjustments necessary for use. Just switch them on and they are ready to go, it's that simple!

The electronic circuitry is housed inside the glove so each hand is a self contained metal detector with no visible wires or switches etc. The detector is powered by one standard 9 volt battery or optional re-chargeable NiCad. The HF-1 gloves are available as a "Dual Active" (D/A) pair (one metal detector for each hand) or as a "Passive Active" (P/A) (one glove, of the operator's choice, either left or right hand has metal detector technology built in) while the other corresponding glove (left or right) is "Blank" (has no technology inside).

HF-1 is suitable for law enforcement, tactical operations, crowd control and military applications.

MIT™



**ADAMS
PRESENTS AN
INNOVATIVE
NEW CONCEPT
FOR
PAT-DOWN AND
HAND
SEARCHES**



METAL DETECTION THAT GIVES THE WEARER A SIXTH SENSE

Adams new "MIT" is the world's very first metal detector that the operator *wears* instead of holds. The MIT has been specifically designed for Pat down and hand search procedures where the operator wants to be in close contact with the subject being searched. The "MIT" can be worn on either left or right hand or one "MIT" on each hand, giving the operator the power of two metal detectors in use at the same time! This gives the operator the ability for fast processing of people.

When the operator has located a metal target the "MIT" gives an alarm indication by means of a vibration against the wearer's wrist. As the vibration is to the operator's wrist and not to the hand, the person being searched does not feel vibration. This offers the operator a covert approach to pat-down procedures. The "MIT" also gives the operator's fingers complete dexterity to feel for concealed objects that are of a non-metallic nature, simultaneously.

"MIT" is fully automatic and requires no adjustments for use. It is powered by one standard 9 Volt battery or optional NiCad rechargeable battery. There are no visible wires, switches or buttons. Everything is housed in a machine washable, soft stretching neoprene (wet-suit) material. The operator just puts the "MIT" into the "On" mode and begins a pat-down search.....It's that simple!

**ADAMS "MIT" DETECTS ALL METALS AND ALLOYS
("MIT" is sold as a single unit)**

TECHNICAL SPECIFICATION
MIT™ - HF-1™




CONSTRUCTION:	<i>Neoprene - Velcro (HF-1 Kevlar and Neoprene)</i>
DIMENSIONS:	Medium or Large, standard generic size. (HF-1 Large - XL - XXL)
WEIGHT:	Weight: 5.2oz or (149 grams) including battery
SENSITIVITY:	Target Size 0.5 grams Fully automatic. No adjustment necessary. All metals, including alloys.
OPERATING TEMPERATURE:	-20°C to +65°C
STORAGE TEMPERATURE:	-30°C to +80°C
HUMIDITY:	98%
INGRESS PROTECTION: (Waterproofing & environmental protection)	IP64 (IEC 529)
OPERATING TIME:	Up to 3 months with normal use 48 hours continuous at +25°C (alkaline battery) 40 hours continuous at +25°C (rechargeable battery single charge)
BATTERY:	Standard 9 Volt block battery MN 1604, 6LR61 or equivalent alkaline disposable or rechargeable.

Tested and approved to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1 Radiated emissions ("CE" mark)

Conforms to international standards IEC, N I LEC STANDARD-0602.02 - FCC, FAA.
Medically tested and approved - No risk to persons with pacemakers.
Non interference to magnetic recorded material.

When the battery is exhausted a continuous tactile alarm signal is produced.

Alarm indication by means of vibrating tactile indicator.
Detection Speed: Ultra fast; 'Detect - alarm - reset' ready for another target - 0.1 second.
Pinpoint target accuracy from  search head at the base of index finger, concealed inside water resistant *neoprene* fabric lining

Mass proportion discrimination alarm indication: At constant sweep speed: short digital pulse = small target. long pulse = large target

Battery inserted inside water resistant *neoprene* & *velcro* pocket. No wires visible.
No false alarms.
Minimum pressure push button latching switch On/Off switch operation, inside water resistant *neoprene* fabric layer.
Instant response to all metals.

MODEL TZ-20 AND TZ-20(V)



A POWERFUL POCKET SIZED METAL DETECTOR

Adams new models TZ-20 and TZ-20(V) are light weight (6.4oz or 18 grams) compact metal detectors that are truly pocket sized: (11.5cm x 6.5cm x 3cm)

These models utilize Adams new "APT" (active probe technology) operating system. They are simplicity to use and enable the operator to locate small or large metal objects with a speed and precision not normally associated with a low cost compact metal detector.

These new pocket size detectors are suitable for a multitude of applications from general security and law enforcement work to other more diverse applications such as locating wires, pipes and conduit etc., buried beneath the surface of walls ceiling and floors of buildings and other structures.

TZ-20 gives a loud and clear audio/visual beep tone when a metal target has been located.

TZ-20(V) gives the operator a very positive and silent vibration alarm in the palm of the hand when a metal object has been detected. Both models have a single push button operation, with no further operational adjustments necessary for use, as both detectors are fully automatic and self-adjusting. TZ-20 and TZ-20(V) use one standard 9 Volt battery.

SPECIFICATION FOR ADAMS TZ-20 & TZ-20(V) PALM HELD - METAL DETECTOR.



DIMENSIONS:	Length: 11.5cm (4.5 inches) - Width: 6.5cm (2.5 inches) Height: 3cm (1.25 inches)
WEIGHT:	6.4 oz - (181 grms) including battery
SENSITIVITY:	Target Size 0.1 grams
CONTROLS:	On/Off Switch - Fully Automatic - (No Sensitivity Adjustment Required)
OPERATING TEMPERATURE:	-20°C to +65°C
STORAGE TEMPERATURE:	-30°C to +80°C
HUMIDITY:	98%
INGRESS PROTECTION:	IP64 (IEC 529) (waterproofing & environmental protection)
POWER CONSUMPTION:	
Standby	
Active Mode Current: (No detection)	Less than 1 mA
Alarm Mode Current: (metal detected)	6.5 mA
BATTERY:	One 9 Volt block battery MN1604, 6LR61 or equivalent alkaline disposable or rechargeable

Operating Time: **TZ-20(V)** 150 hours continuous (or greater) at +25°C (alkaline battery)
80 hours at +25°C (rechargeable battery single charge)
TZ-20: 550mA hours (Standard 9 Volt Block battery) 180mA hours NiCad rechargeable.

Battery Management System: - Precision monitoring. Low voltage or defective battery is signalled by a continuous vibration (TZ-20(V)) or audio tone (TZ-20) alarm signal.

Alarm indication: Audio/visual (TZ-20) Vibration Alarm (tactile) indicator (TZ-20V)

Speed of detection: Ultra fast; 'Detect - alarm - reset' ready for another target - 0.1 second

Size of target indication: At constant sweep speed: short digital pulse = small target. Long pulse = large target

Simple single control operation: (Single switch On/Off)

No false alarms.

Instant response to all metals.

Technology: tested and approved to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1 Radiated emissions. Conforms to international standards IEC, NILEC STANDARD-0602.02 - FCC, FAA.
Medically tested and approved - No risk to persons with pacemakers.
Non interference to magnetic recorded material.

MODEL AX777

GROUND SEARCH DETECTOR



- **POWERED BY A SINGLE STANDARD 9 VOLT BATTERY**
- **ULTRA HIGH SENSITIVITY TO VERY SMALL AND LARGE TARGETS**
- **SPECIFICALLY DESIGNED FOR GRID SEARCHES AND SCENES OF CRIME APPLICATIONS**
- **AUDIO/VISUAL AND SILENT VIBRATING ALARM**
- **ULTRA LIGHT WEIGHT CONSTRUCTION (1KG or 35-oz) INCLUDING BATTERY**
- **SIMPLE TO USE. PRESS THE "ON" BUTTON AND START SEARCHING**

SPECIFICATIONS FOR ADAMS MODEL AX777 GROUND SEARCH METAL DETECTOR



CONSTRUCTION:	Polycarbonate, aluminium and ABS. Ultra strong and light construction.
PROBE DIMENSIONS:	Diameter: 21 cm (8 inches).
HEIGHT:	91cm (36 inches) handle to floor (short mode) 142cm (56 inches) fully extended.
WEIGHT:	48.2 oz – 1.5kg (including battery)
SENSITIVITY:	Fully adjustable sensitivity. Target size better than 0.05 grams.
OPERATING TEMP:	-20°C to +65°C
STORAGE TEMP:	-30°C to +80°C
HUMIDITY:	98%
INGRESS PROTECTION:	[IP64 (IEC 529) CONTROL PANEL] – [SEARCH PROBE SUBMERSIBLE]
POWER SOURCE:	One Standard 9 Volt alkaline (MN1604, 6LR61 or equivalent disposable or rechargeable block battery. Loaded “Cartridge style”. Operation to “ON” mode by on/off rocker switch.
POWER CONSUMPTION:	
Standby Current:	Nil
Active Mode Current:	Less than 1mA
<i>(No detection)</i>	
Alarm Mode:	6.5mA (audio/visual mode)
<i>(Metal detected)</i>	
BATTERY MANAGEMENT:	Precision battery monitoring. Yellow L.E.D indicator on main control panel signals low power. Continuous Red and Yellow LED indicate expired battery (in alarm mode)
BATTERY LIFE:	Battery life from 1 single 9-volt battery up to 360 Hrs., continuous use in audio/visual mode . (Standard Alkaline) (100 Hrs. NiCad Rechargeable) Please note: <i>Vibration</i> mode will run battery down faster than Audio/Visual mode).
ALARM INDICATION:	Alarm indicated in two modes with 2-way rocker switch (a) Audio Visual (beeper and Red LED) (b) Vibration only (tactile vibration from the handle of the detector to the hand of operator. Detector beeps only when metal is present.
DETECTION SPEED:	Ultra fast Detect Alarm and Reset ready for another target: 0.1 seconds.
TARGET SIZE INDICATION:	At constant sweep speed: short alarm = small target Long alarm = larger target.
CONTROLS:	(a) On/Off rocker switch (green flashing LED indicates ON mode) (b) Red LED indicates alarm mode. (c) Yellow LED indicates battery power is low and needs changing or re-charging. (d) Two way switch changing between A/V (Audio/Visual) and VIB (Vibration mode) (e) Miniature sensitivity adjustment knob.
TARGET TYPES:	Detects all metals including alloys, with instant response to all metals.
TESTING:	(a) Tested and approved to EEC EN5008-1 Table 1. EN50082-1 Table 1:1.1 radiated emissions (CE marked). (b) Conforms to international standards IEC, NILEC, FCC, FAA. (c) Medically tested – No risk to persons with pacemakers. (d) Non-interference with magnetic recorded material.

HEALTH & SAFETY

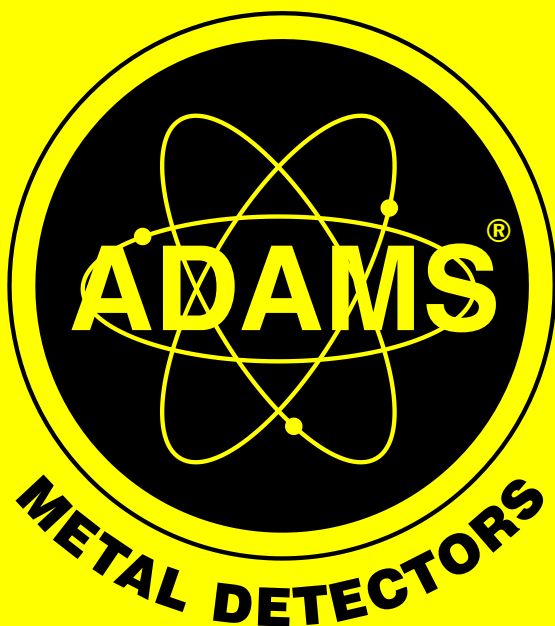
ADAMS ELECTRONICS PRODUCTS HAVE BEEN TESTED AND PROVEN TO BE SAFE FOR USE ON PERSONS WITH HEART PACEMAKERS, DEFIBRILLATORS AND PREGNANT WOMEN NOT HARMFUL TO RECORDED MATERIAL OR FILM.

(More information available at: adamsinc.com)

OPTIONAL ACCESSORIES

ACCESSORY NAME	ADAMS ELECTRONIC PART NUMBER
1. Cleaning Kit	# ACK-100
2. Carrying Case / Holder	# ACCH-101 (please state product model)
3. Training video or CD Rom	# ATV-102 (video) ATCD-102A (CD-Rom)
4. Rechargeable 9 Volt Battery	# ARB-103
5. Active Ear-Piece	# AEP-104
6. Battery Charger	# ABCH-105





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