E.A.S. Electronic Article Surveillance is a way of protecting a retail stores merchandise.

What is a Tagging System?
A tagging system comprises of a transmitter, receiver and a tuned circuit (a tag). The majority of tagging systems are presence only detection systems. When a tag is put into the field, the field is detuned and this detuning is detected by the receiver. The receiver has many high Q filters to reduce the risk of false alarms. The receiver has to look at more than one frequency (sweep).

SINGLE PEDESTAL SYSTEMS (XL SUPRA MONO, 8.2 MHz)
These systems combine a transmitter and receiver in one aerial. Lower frequencies are used for these systems, normally below 3.25 MHz. Generally 1.95 MHz is used for RF (Radio Frequency) systems but has limited capabilities ie. cannot use paper labels. The XL Supra Mono systems operate on 8.25 MHz allowing the use of paper labels on a single pedestal system. (1.95 MHz versions are available but are not compatible with paper labels).

DUAL PEDESTAL SYSTEMS (XS NUDA, XS SUPRA and XL SUPRA, 8.2 MHz)
These systems consist of a separate transmitter and receiver, making them capable of covering greater distances. RF Systems operate at 3.25 MHz, 4.75 MHz and 8.25 MHz. They give a high pick rate >98% when using hard tags. When using multiple transmitters, slaving is necessary.

An RF System offers the following benefits:
- *Well established technology with a significant cost saving on tags*
- *Large tags present a strong visual deterrent to shoplifters*
- *Offers entry level (single pillar) systems for smaller garment retailers.*
- *The ability to detect paper labels as well as hard tags.*

E.A.S. Electronic Article Surveillance (1 Year Warranty)

Code

Radio frequency systems & equipment

Single Pedestal System

This advanced single pedestal 8.25 MHz system is capable of operating either as a standalone system or in an installation of up to 18 systems. Active and passive aerials can also be added to make it cost effective for dual aisle installations.

Specifications

	XL SUPRA MONO
Width	390mm
Height	1550mm
Depth	40mm
Mains Supply 100-230V ac	

Detection distances either side of the aerial

Aura Tag	1.2 metres (928-0854)
Mini Aura Tag	1.0 metre (928-0855)
5 X 5 Adhesive Label	0.9 metres (928-0862)
4 X 4 Adhesive Label	0.75 metres (928-0864)

Note: each tag requires a pin, sold separately in packs of 1000

930-0001 **XLSUPRAMONO8.25** XL SUPRA MONO 8.25MHz single pedestal system

XS Nuda Systems (1550 x 250 x 40mm (HxWxD)) 100-230V ac

With a size less than half that of a standard system the XS Nuda shows only minimal presence in the shop entrance. The advanced digital electronics provide a level of performance that is unmatched for this size of system.
The system operates on 100-230V ac and the minimal centre operating frequency is 8.25 MHz.
The transmitters and receivers can be installed at a maximum distance of 1.90 metres apart when a pungo hard tag is used. (928-0852).
The systems come with a PSU complete with a 2m lead.

927-1176 **XPXSNUDA23GSFTX** XS Nuda 8.25 MHz Transmitter
927-1177 **XPXSNUDA23GSFRX** XS Nuda 8.25 MHz Receiver including PSU

XS Supra Systems (1550 x 250 x 40mm (HxWxD)) 100-230V ac

The ultra compact XS SUPRA is equipped with Omni Directional Detection (ODD) technology. ODD provides an optimal detection performance, even when the smallest paper labels are used. The XS SUPRA is supplied as standard with customisable Plexiglass panels and an integrated sounder with light.

927-1891 **XPXSSUPRATX** XS Supra 23GSF 8.25 MHz Transmitter
927-1890 **XPXSSUPRARX** XS Supra 23GSF 8.25 MHz Receiver including PSU

XL Supra Systems (1550 x 390 x 40mm (HxWxD)) 100-230V ac

The XL Supra is a true wide aisle system for those retailers requiring the maximum possible detection width and reliability.
Using Omni-Directional Detection (ODD) technology, paper labels can be detected as easily as hard tags on distances up to 1.6 metres.
The system operates on 100-230V ac and the operating frequency is 8.25 MHz.
The transmitters and receivers can be installed at a maximum distance of 2.2 metres apart when a pungo hard tag is used. (928-0852).
The systems come with a PSU complete with a 2m lead.

Features
- XL Slimline design
- Visual and audible alarm
- Optimal detection characteristics
- Omni-directional detection (ODD)
- Brushed aluminium finish
- Plexiglass Panels

927-1178 **XPXLSUPRAGSFTX** XL Supra 23GSF 8.25 MHz Transmitter
927-1179 **XPXLSUPRAGSFRX** XL Supra 23GSF 8.25 MHz Receiver including PSU

Detection Distances

	XS Nuda Systems	XS Supra Systems	XL Supra Systems
Pungo Tag (928-0852)	up to 1.9 metres	up to 1.8 metres	up to 2.2 metres
Ostra D50 Tag (928-0856)	up to 1.7 metres	up to 1.6 metres	up to 2.0 metres
5 X 5 Adhesive Label (928-0862)	up to 0.9 metres	up to 1.4 metres	up to 1.9 metres
4 X 4 Adhesive Label (928-0864)	up to 0.75 metres	up to 1.3 metres	up to 1.75 metres

Note: each tag requires a pin, sold separately in packs of 1000

Meters

We recommend each installer purchases one of each of the meters listed below. If there are issues with a system not performing correctly, a couple of fundamental questions that will be asked by our Technical Sales Support Team will always require the RFTSYSMETER meter to answer them. If the installer does not have these meters the Technical Sales Support Team will NOT be able to help the installer. There are two types of meters, one is for testing that the frequency of the tag is correct and the other is for checking that the system is operating at the correct frequency. These meters are for SWEPT SYSTEMS only and will not be of any use with the PULSED single pedestal systems (XL SUPRA MONO). Due to being single pedestal systems, the XL SUPRA MONO systems do not require any test equipment.

If the system installed is not picking up the tags, there are a number of meters available to check the frequencies. Alternatively one can use the meters when installing the systems to check everything is operating correctly. The FREQUENCY meter for testing the tags is 210 x 80 x 21mm and requires 4 x AA batteries. The SYSTEM meter is 104 x 57 x 19mm and requires a PP3 battery.

928-0870 **RFTFREQTEST** Tag frequency meter, requires 4 x AA batteries
928-0871 **RFTSYSMETER** 8.2 GSF system meter, requires a PP3 battery

Code

Accessories

928-0872 **LAN120DLOOP** Lanyard double loop, pack of 100

The double loop lanyard has a loop at both ends and is 20cm in length in white plastic. This is used to attach difficult shaped items to a tag.

928-0873 **LAN120FLEXS** Flex string, pack of 100

The Flex strings are like galvanised wire and are about 20cm in length. These are, used to attach difficult shaped items to a tag. However the tag needs to have a hole in it so the wire can be pushed in - this refers to the Aura mini tag only.

RFI Ferrite Cable Clamps

XS NUDA and XL SUPRA systems

If upon activation an external sounder or signalling device is required, this can be achieved by using the dry contact output. To prevent any stray RFI from the signalling device, a Ferrite cable clamp MUST BE USED.

928-0920 **FERRITE-SIZE-B** Ferrite cable clamp for providing a quick "Retro-fit" solution to RFI problems, pack of 4

CABLE SPECIFICATION

The cable required between the XS Nuda or XL Supra transmitter & receiver is a belden GAR9534STY cable

Cable

927-0040 **GAR9534STY** Belden style, 4 conductor overall screen cable, 24AWG, 100m

Pungo tags

928-0852 **RFTPU825SLW** Pungo tag 8.25 MHz, white, standard lock, pack of 1000 (each tag requires a pin, sold separately in packs of 1000)

Aura tags

The Aura tags have a conical coil to aid detection and reduce the effect of 'plane consciousness'. The frequency can be from 1.95 to 8.25 MHz with the standard colour as white for standard lock tags.*

Note* 'plane consciousness' = if the tag has a flat coil the tag performance may appear to vary at different angles in wider systems, that's where the conical coil comes in. The Aura tag is 62mm in diameter & 23mm in depth
The Aura mini tag is 42mm in diameter & 23mm in depth

The Aura tag offers a slightly better detection range between system pedestals, but some retailers prefer the smaller Aura mini tag for their clothing, this still has a good detection range of up to 1.6m.

928-0854 **RFTAU825SLW** Aura tag 8.25 MHz, white, standard lock, pack of 1000 (each tag requires a pin, sold separately in packs of 1000)

928-0855 **RFTMA825SLW** Aura mini tag 8.25 MHz, white, standard lock, pack of 1000 (each tag requires a pin, sold separately in packs of 1000)

Ostra tags

928-0856 **RFTOSD58SLW** Ostra D50, white, standard lock, pack of 1000 (each tag requires a pin, sold separately in packs of 1000)

Pins

There are two types of pins available - 16mm conical plastic head with smooth or grooved shank and 19mm flat plastic head with smooth or grooved shank. Pins do not come with the tags as they are a separate item. However a pin is required to attach the tags to garments and, when the garment is sold, the tag is detached from the pin.

928-0857 **PIN016SMCON** Standard 16mm Pins, pack of 1000

928-0858 **PINTED00D65** Ostra TED 16mm Pins, pack of 1000

Adhesive labels

Often known as soft tagging. These are applied to solid objects and are either plain or printed with a dummy barcode to disguise its real function. The labels are either 4cm x 4cm or 5cm x 5cm (actual size). The larger the label the better the detection, but more retailers prefer 4 x 4 labels because of their smaller size.

928-0862 **RFTLAB5X5PL** Adhesive labels 8.25 MHz, 5 x 5cm, plain, pack of 2000

928-0863 **RFTLAB5X5BC** Adhesive labels 8.25 MHz, 5 x 5cm, barcoded, pack of 2000

928-0864 **RFTLAB4X4PL** Adhesive labels 8.25 MHz, 4 x 4cm, plain, pack of 2000

928-0865 **RFTLAB4X4BC** Adhesive labels 8.25 MHz, 4 x 4cm, barcoded, pack of 2000

Detacher & Deactivator

A magnetic detacher unit releases hard tags without damage to garments. It must be secured to a counter. The RF Deactivator is where labels are passed over the plate at the cash desk to deactivate them.

928-0866 **MRELSTDSURF** Detacher, standard strength

928-0867 **RFDEACDUOPC** Adhesive label deactivator with dual outputs, includes a control unit (for controlling 2 pads) and a deactivator pad

928-0868 **RFDEACCONBX** Adhesive label deactivator control unit

928-0869 **RFDEAC00PAD** Extra deactivator pad for an adhesive label deactivator control unit (supplied with 900cm of cable)

927-1423 **RDDEACWAND2** Deactivator wand, requires control unit

934-0001 **RFLABELDESE** Label Scanner/Deactivator unit