

SMD601 LOSS PREVENTION SYSTEM

PREVENTS THE LOSS OF VALUABLE METAL ITEMS

SMD601 Metal Detector

ID Card and Reader

Analysis software

Date Time	Device Name	Direction	Alarm	Alarm Description
13/05/2008 13:05:41	SMD-601	IN	YES	
13/05/2008 13:32:24	SMD-601	OUT	YES	
13/05/2008 16:30:21	SMD-601	IN	NO	
13/05/2008 17:00:03	SMD-601	OUT	NO	
12/05/2008 13:20:39	SMD-601	IN	NO	
12/05/2008 13:22:05	SMD-601	OUT	NO	
12/05/2008 08:35:14	SMD-601	IN	NO	
08/05/2008 17:20:04	SMD-601	OUT	NO	
08/05/2008 13:58:08	SMD-601	IN	NO	
08/05/2008 13:37:42	SMD-601	OUT	NO	
08/05/2008 07:49:23	SMD-601	IN	NO	
08/05/2008 17:00:00	SMD-601	OUT	YES	
08/05/2008 13:17:18	SMD-601	IN	NO	
08/05/2008 12:23:46	SMD-601	OUT	NO	
08/05/2008 08:23:08	SMD-601	IN	NO	
07/05/2008 17:34:18	SMD-601	OUT	NO	
07/05/2008 13:27:08	SMD-601	IN	NO	
07/05/2008 12:41:23	SMD-601	OUT	NO	
07/05/2008 08:23:49	SMD-601	IN	NO	
06/05/2008 17:31:35	SMD-601	OUT	NO	
06/05/2008 13:20:13	SMD-601	IN	NO	

SMD601 LOSS PREVENTION SYSTEM

INTRODUCTION

The SMD601 Loss Prevention System prevents the theft or accidental removal of metallic objects. As people transit the system, the metal content information for each transit is stored in the system's internal data base

The superior uniformity of the electromagnetic field of the SMD601 Metal Detector provides very consistent metal detection readings on every transit of an individual which may be wearing non-removable items like prosthetics, wedding rings, piercings etc.

This is a unique feature of the SMD601 and results in the creation of a true metal content profile for the person being screened.

Each transit is compared with the individual's profile stored in the data base. Any significant differences to previous transits are highlighted by the software.

The personal metal content data is sent securely over the network and stored in encrypted form.

SMD601 Profiling Technology allows detection of these targets while ignoring non-removable personal objects.

SOME EXAMPLES OF TARGET ITEMS



BENEFITS AND ADVANTAGES

- Highest Sensitivity to detect even very small metal targets
- Greatly reduces losses with theft detection and deterrent
- Increases throughput at security checkpoints with automated screening
- Improves privacy with non-invasive search
- Easy browsing of the visual results of all the loss prevention screenings
- Advanced reporting capabilities. Statistical data reports can be exported in Excel, Adobe pdf and html formats
- Remote Management, Diagnostic and Maintenance of the SMD601 through IP-networks

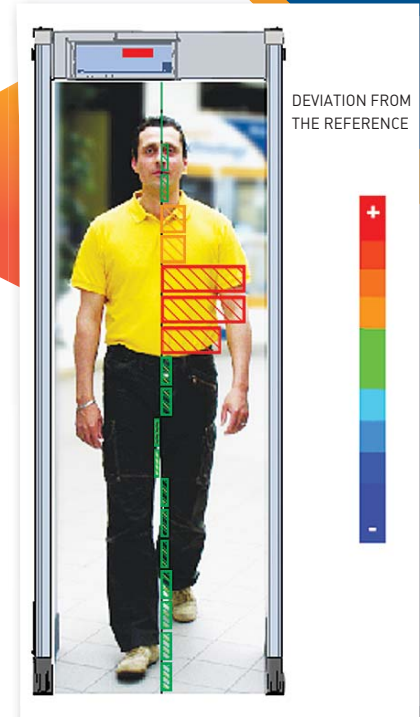
SMD601 LOSS PREVENTION SYSTEM



VISUAL RESULTS OF LOSS PREVENTION SCREENING

Date Time	Device Name	Direction	Alarm	Alarm Description
13/05/2008 17:00:43	SMD 601	OUT	YES	
13/05/2008 13:30:58	SMD 601	IN	NO	
13/05/2008 12:32:24	SMD 601	OUT	YES	
13/05/2008 08:30:37	SMD 601	IN	NO	
12/05/2008 17:05:03	SMD 601	OUT	NO	
12/05/2008 13:25:31	SMD 601	IN	NO	
12/05/2008 12:22:01	SMD 601	OUT	NO	
12/05/2008 08:35:14	SMD 601	IN	NO	
09/05/2008 17:32:04	SMD 601	OUT	NO	
09/05/2008 13:30:59	SMD 601	IN	NO	
09/05/2008 12:37:42	SMD 601	OUT	NO	
08/05/2008 07:49:21	SMD 601	IN	NO	
08/05/2008 17:51:08	SMD 601	OUT	YES	
08/05/2008 13:17:18	SMD 601	IN	NO	
08/05/2008 12:23:46	SMD 601	OUT	NO	
08/05/2008 08:21:06	SMD 601	IN	NO	
07/05/2008 17:34:19	SMD 601	OUT	NO	
07/05/2008 13:31:09	SMD 601	IN	NO	
07/05/2008 12:41:23	SMD 601	OUT	NO	
07/05/2008 08:23:41	SMD 601	IN	NO	
06/05/2008 17:31:51	SMD 601	OUT	NO	
06/05/2008 13:25:12	SMD 601	IN	NO	

Graph parameters: Device name: SMD 601, Security Level: LP (00), Sensitivity: 70, Tolerance: 10%. Legend: PROFILE (solid blue), TRANSIT SIGNAL (solid red), LOWER THRESHOLD (dashed blue), UPPER THRESHOLD (dashed red).

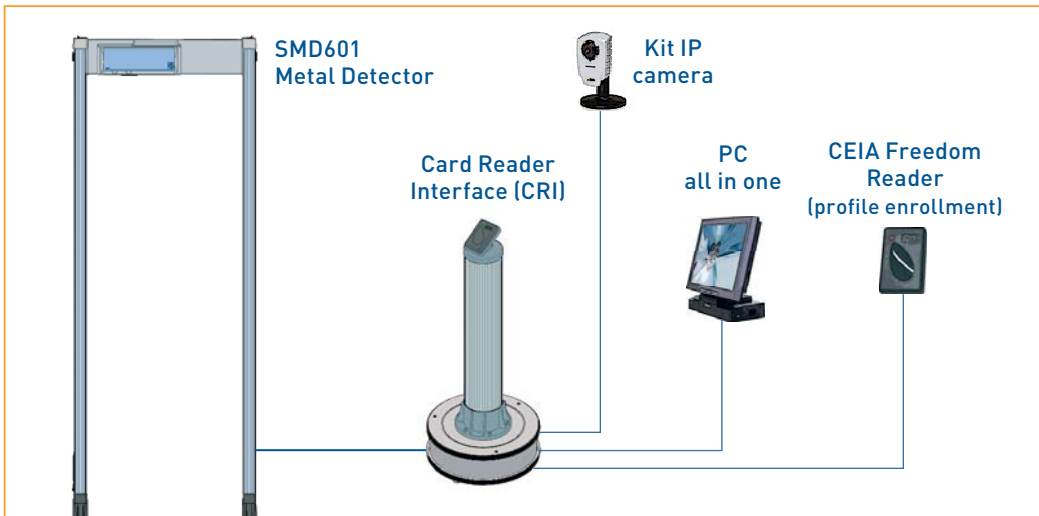


▶ LARGE, CLEAR INDICATION OF POSITION AND SIZE OF THE METAL MASS

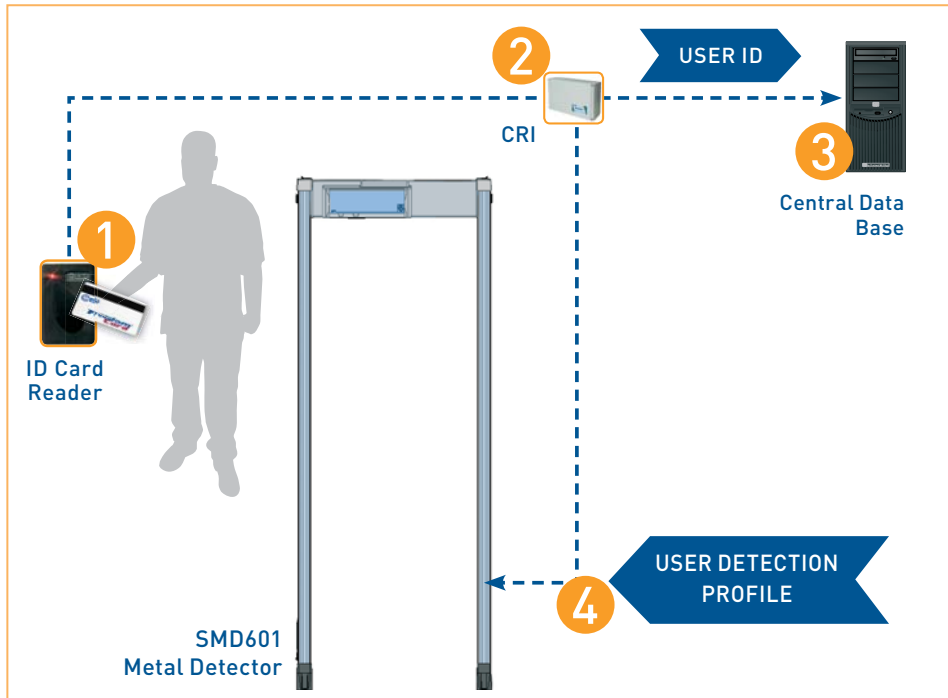
BASE CONFIGURATION

The basic system is composed of one **SMD601**, connected to the network through a **CEIA Card Reader Interface (CRI)** that manages a card reader (mono-directional transit control) or two card readers (bi-directional transit control). The CEIA CRI can be interfaced to

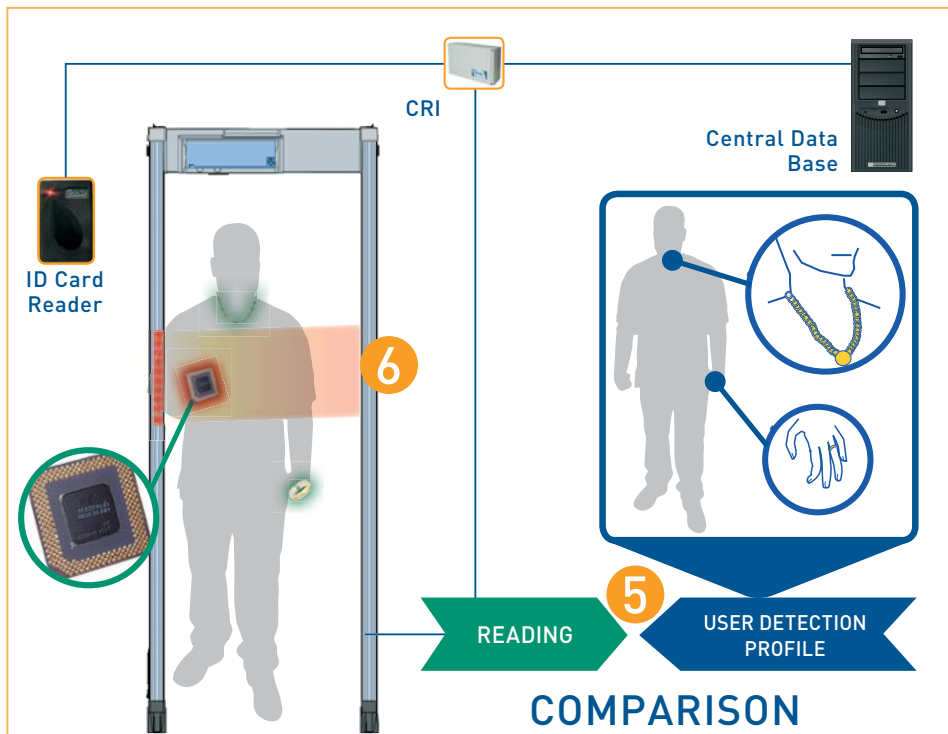
any ID Card Reader Technology. It communicates via an encrypted channel on **Ethernet** and **IP networks with a centralized Server** containing the CEIA Access Control Software and database. **Multiple Loss Prevention Check-points can be connected to the same PC or Server.**



OPERATIONAL SEQUENCE



- 1 THE TRANSITING PERSON PRESENTS THE ID CARD TO THE READER.
- 2 THE CRI (CARD READER INTERFACE) REQUESTS THE DETECTION PROFILE FROM THE CENTRAL DATA BASE.
- 3 THE SYSTEM CHECKS THE CARD CREDENTIALS. CARDS EXPIRED, DISABLED (STOLEN) AND UNRECOGNIZED ARE NOT ALLOWED AND NOTIFICATION IS DISPLAYED.
- 4 THE CENTRAL DATA BASE SENDS THE USER DETECTION PROFILE TO THE CORRESPONDING SMD601 UNIT.



- 5 DURING THE TRANSIT THROUGH THE SMD601, A COMPARATIVE ANALYSIS IS PERFORMED IN THE UNIT BETWEEN THE ELECTROMAGNETIC SIGNAL OF THE CURRENT TRANSIT AND THE CENTRAL DATA BASE PROFILE.
- 6 IF THE MEASURED DATA LIES WITHIN THE STORED USER PROFILE THEN THE PERSON IS CLEARED. OTHERWISE AN ALARM IS GENERATED AND THE ZONES WHERE THE DISCREPANCIES WITH THE USER PROFILE ARE FOUND ARE CLEARLY INDICATED.



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