AMAG

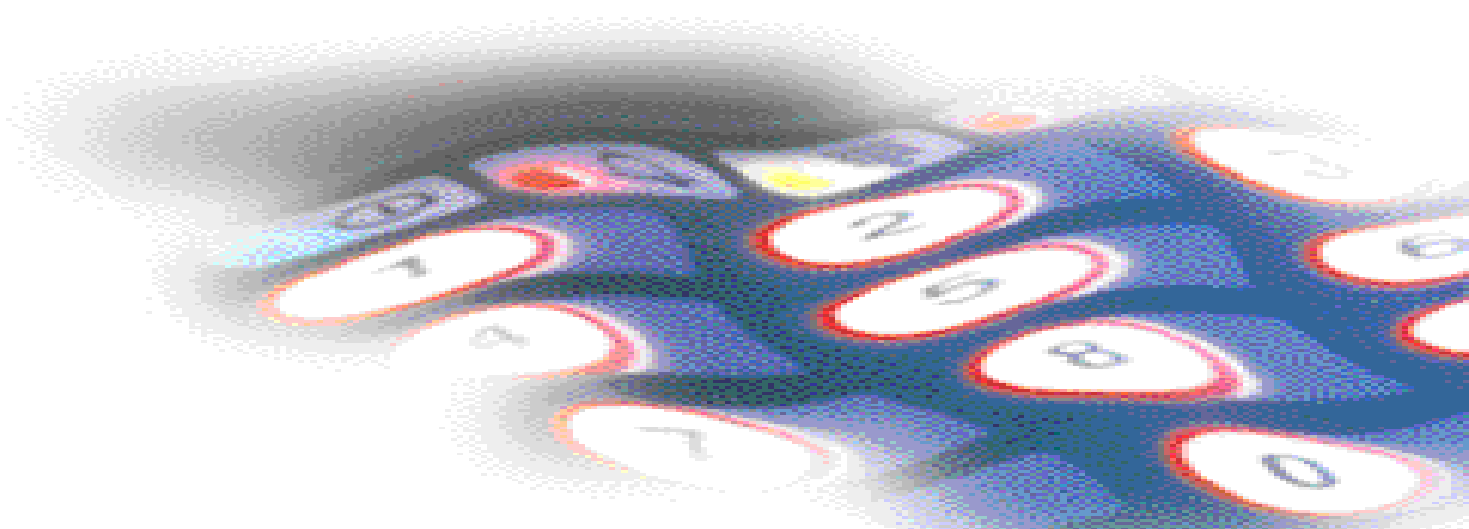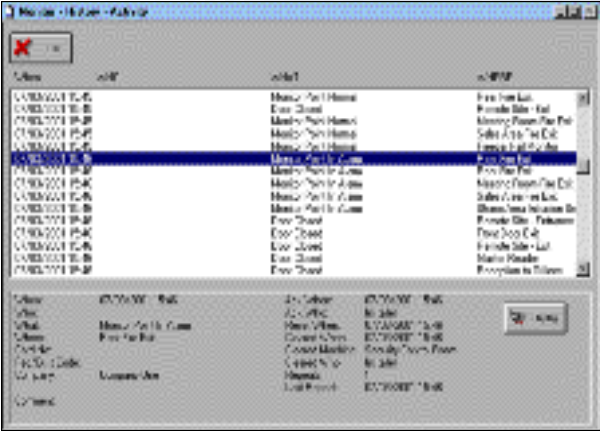## Enterprise Access Control & Security Management Solutions

625 LITE

AMAG 625 Lite Overview

Overview

The AMAG 625 Lite system is designed specifically for use with the multiNODE Lite range of intelligent controllers to provide powerful integrated access control and security management solutions for applications of up to 16 readers, and 3 clients.
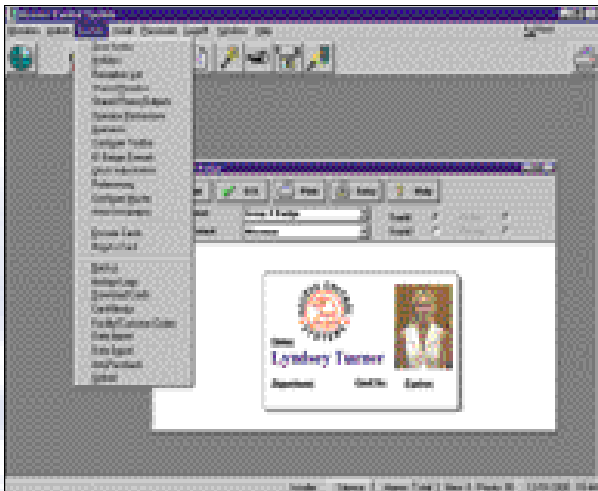
AMAG 625 Lite can be run using either the Windows NT, Windows 2000 or Windows XP Operating system platform and has been designed to provide powerful features, and efficient system management combined with extensive and flexible reporting capabilities. By adopting Industry Standard Solutions, it can also be easily interfaced with other third party systems and packages.

There is an upgrade route to larger configurations of AMAG 625 software when required.

AMAG 625 Lite Software

AMAG 625 Lite Software is very user friendly and incorporates 'best of breed' functionality including:

● Comprehensive on-line help

● Dynamic Maps

● Flexible card administration

● Comprehensive analysis reports

● **Visitor Management**
  — Easy to use visitor management solution utilizing Internet/Intranet based technology. Amongst other features, users are able to enrol visitors, assign them to responsible employees, capture their photograph, assign active dates and produce filtered visitor reports

● **Video Badging**
  — Provides a reliable, easy to use and professional, quality solution when an organization needs to capture and store cardholder Images, design ID badge layouts and print ID badges.

multiNODE Lite Controller

The multiNODE Lite controller provides distributed intelligence processing for access control and alarms monitoring applications for 1000 cardholders.
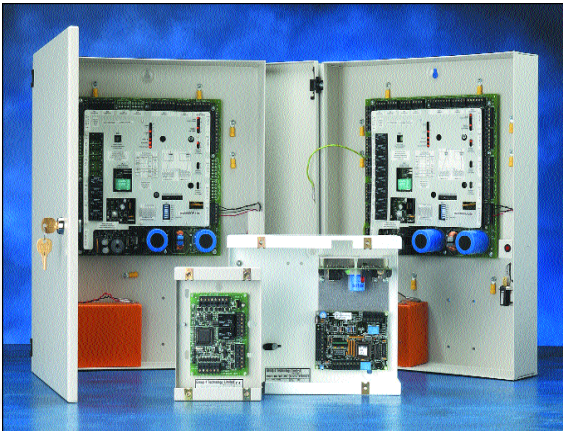
The multiNODE Lite is available in both 2 and 4 door controller configurations. Both are supplied in a common enclosure with a removable hinged lockable lid. A tamper switch and power on indicator are incorporated as standard. The multiNODE Lite operates at 18Vac. A battery recharge facility is included, with space within the enclosure to accommodate a 12v 7AH maintenance free rechargeable battery. A transformer is available as an option.

The multiNODE Lite controllers incorporate Flash Memory supporting downloadable firmware allowing enhancements to be downloaded from a PC, simplifying upgrades and minimizing installation time.

Communication Schemes

The multiNODE Lite controllers supports:

▶ **Wired connection**

▶ **Dial-up via modems**
  – Providing efficient management for remote sites requiring centralized administration

▶ **Network connection**
  – TCP/IP Protocol, using an option board (NIC)

multiNODE Lite Standard Features

● **RS232 Port as standard** – Both the 2-Door AND 4 Door multiNODE Lite Controllers have a built in RS232 port for PC or modem connection.

4 Reader multiNODE Lite Controller

● **Additional Inputs & Outputs as standard** – Both the 2-Door and 4-Door multiNODE Lite Controllers have 4 general purpose supervised inputs, each capable of 2, 3 and 4 state operation.

In addition the 2-Door MultiNODE Lite Controller has 2 auxiliary outputs and the 4-Door MultiNODE Lite Controller has 4 auxiliary outputs which can be used for alarms bypass or other applications.

Reader Interface Module (RIM)

● **The Optional RIM** allows the door monitor/exit request inputs and the lock release/bypass relay outputs to be locally terminated. The unit includes a local PSU for lock and reader and interfaces with AMAGs Series 600 and 700 readers.

Wiegand Interface Unit (WIU)

● The optional WIU enables connection of readers utilizing a Wiegand Electrical Interface. The WIU is powered from its connecting controller.
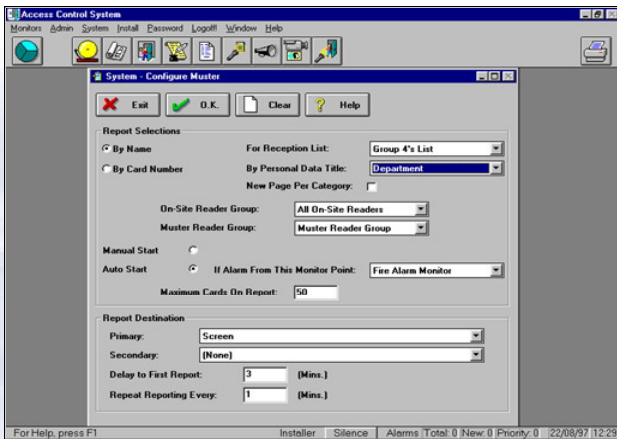
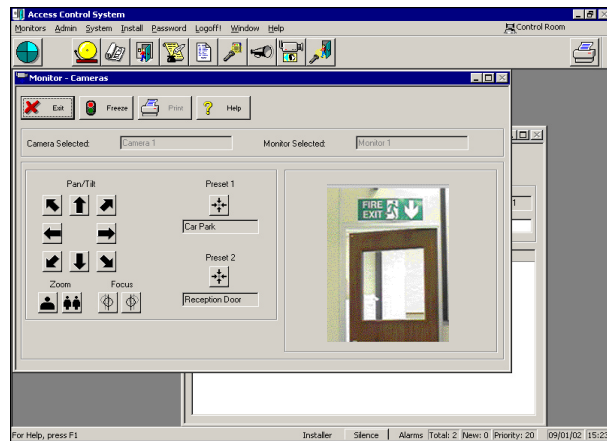## Additional Integrated Software Packages

AMAG 625 Lite

A comprehensive & powerful range of fully integrated additional software packages are available, designed to meet specific application requirements.

Additional Integrated Software Packages include:

- **E-mail alarms**
  - Automatically sends alarms to different E-mail destinations
  - Alarm response instructions can be attached

- **Web Client**

  Allows access to cardholder records via web technologies
  - Industry standard encryption using Secure Socket Layers (SSL)
  - Allows remote cardholder management via Intranet/Internet connections

- **Smart card integration and programming**
  - For Philips MIFARE® smart cards
  - Includes AMAG's own unique smartMAX format, providing customer specific facility codes

- **Biometrics**
  - The 625 Lite system offers a high level of biometrics integration and can give turn–key solutions for template management authentication. Hand geometry & finger print templates can be programmed into Philips MIFARE® smart cards and used with AMAG's S700 Smart Card Readers, when connected to a Recognition Systems™ hand geometry or Bioscrypt™ fingerprint reader.

- **Guard Tour**
  - Allows configurable sequences for patrol tours using card readers and/or monitor points.

- **Card Data Import**
  - Provides an interface to import card holder details from other databases

- **Card Data Export**
  - Provides an interface to export card holder details

- **Digital Video Management**
  - Provides integration with a range of digital video recorders

- **CCTV Switching**
  - Provides connectivity with a wide range of CCTV switchers and multiplexors

- **Intercom Control**
  - Provides a graphical intercom call station connection and logging capability

- **Alarm Panel**
  - Provides integration with an alarm panel to provide a centralized alarm reporting facility

- **Muster**
  - Roll call system for listing on-site card holders. Muster identifies those failing to register at designated muster readers

Reader Types Supported

The multiNODE Lite Controller can connect any of the following readers. Standard and custom card formats of any technology are supported.

● **AMAG Series 600 - Proximity and Magstripe readers**

AMAG Series 600 Proximity and Magnetic Stripe Readers feature an integral buzzer, local door pre-held alarm and two extra programmable LEDs on keypad models for use with card commands input through the keypad. Unlike wiegand readers, AMAG S600 readers use supervised 20mA communications. Both the reader and cable are supervised, and an alarm will occur if the reader is tampered with or communication is lost. A distance from the multiNODE Lite controller to the S600 reader of up to 3000ft (1000m) can also be achieved. S600 Proximity readers have a variety of read ranges and read HID cards. Magstripe readers utilize microMAX or custom formats; track 1 as standard with track 2 as an option.

A Keypad only unit is also available and provides a cost effective, code-only solution. The keypad can also be used with proximity and wiegand card only readers to provide a reader with PIN configuration.

● **AMAG Series 700 - Smart Card readers**

AMAG Series 700 Smart Card Readers feature integral buzzer, local door pre-held alarm and an LCD for verification of card accepted and of card rejected. The LCD on the keypad models is also used for PIN prompt and for verification of command functions initiated through the reader keypad. AMAG S700 readers use supervised 20mA communications. Both the reader and cable are supervised, and an alarm will occur if the reader is tampered with or communication is lost. A distance from the multiNODE Lite controller to the S700 reader of up to 3000ft (1000m) can also be achieved.

Models include:

– S710/S711 Contactless Smart Card Readers - Read Philips Mifare® Contactless Smart Cards

– S720/S721 Contact "Chip" Smart Card Readers - Read microprocessor contact "chip" smart cards which comply with ISO 7816

● Other readers utilizing a Wiegand Electrical Interface (via WIU**)**

Please see individual data sheets for further information on AMAG's Series 600 and Series 700 readers.

General Specifications

multiNODE Lite Dimensions - Includes Enclosure (mm)

	2 & 4 Reader Controllers	RIM	WIU
Width:	15.1″ (385)	10″ (255)	4.7″ (120)
Height:	18.7″ (475)	8.3″ (210)	6.7″ (170)
Depth:	3.4″ (85)	3.5″ (90)	1.6″ (40)

Operating Environment

2 Reader Controller/4 Reader Controller/RIM/WIU
+32°F to +122°F (0°c to +50°c)
15% to 90% humidity, non-condensing

Power Requirements

2 Reader Controller
External Transformer. 18VAC secondary output rated at 50VA
Sufficient power available per lock of up to 400 mA at 12vDC

4 Reader Controller
External Transformer. 18VAC secondary output rated at 75VA
Sufficient power available per lock of up to 400 mA at 12vDC

RIM
External Transformer. 18VAC secondary output rated at 50VA
Sufficient power available for a lock of up to 400 mA at 12vDC

Communication Distances

Controller to PC/Modem (RS232) = 50ft (15m)
Controller to Controller (current loop) = 3000ft (1000m)
Controller to RIM (current loop) = 3000ft (1000m)
RIM to S600/S700 Reader = 30ft (10m)
Controller to WIU (Current loop) = 3000ft (1000m)
Controller to current loop reader = 3000ft (1000m)
WIU to Wiegand reader = 325ft (100m)

Transmission Speed (Host communications)

2/4 Reader Controller
Switch-selectable (9600/19200/38400 baud)

Storage Capacities

2 & 4 Reader Controller
Standard Memory programmable for:
Cardholder Records = 1,000
Off-line stored events = 6,500

Stored and executed by each Controller :
Timed commands = 256
Conditional Commands =99

Controller Inputs/Outputs

	2Reader	4Reader
Reader supply outputs:		
(12V @250mA max/5V @100mA max.)	2	4
Reader ports (current loop or Wiegand)	2	4
Door monitor inputs (2/3/4 state)	2	4
Exit requests inputs (2/3/4 state)	2	4
General Purpose inputs (2/3/4 state)	4	4
Auxiliary Outputs or Bypass/Shunt relay outputs	2	4
Door release relay outputs	2	4
RS 232 Port	1	1

Controllers - Options supported

	2 Reader	4 Reader
Network Interface Card (NIC)	1	1
1 Reader Wiegand Interface Unit (WIU)	2	4