



# SMARTLIVING



Live Smart with Ness SmartLiving



## SmartLiving Control Panels

505 / 515 / 1050L / 10100L



ALIEN 7" Touch keypad



ALIEN Touch keypad



nCODE keypad



ALIEN iOS and Android app

### Control panel versions

The control panel is the heart of the SmartLiving system.

Ness offers four versions, all in metal enclosures: SmartLiving505, SmartLiving515 with housing for a 7Ah battery and SmartLiving1050L and SmartLiving10100L with housing for a 17Ah battery.

The vast application range of this system spans from five terminals (10 zones) with the "505" version, to a hundred terminals (200 zones) with the "10100" version all with an extensive suite of powerful features.

### Innovative BUS technologies

A particularly interesting feature is the new concept of "terminals" attributable to FlexIO technology. "Terminals" revolutionizes the standard concept of inputs and outputs and provides the installer with a more adaptable approach to system customisation and what is more, a different perception of in-stock needs.

Application of Easy4U technology provides installers and end users alike with all the advantages of an uncomplicated yet effective interface.

The innovative concept of "shortcuts" makes system control effortless and greatly simplifies system programming, which is fully piloted by this straightforward interface.

Ness' new-generation I-BUS is the backbone of the SmartLiving system. The I-BUS is capable of extremely high bus speeds unmatched in this market segment.

The performance capabilities of the I-BUS have been utilized in such a way as to allow it to manage complex topologies, provide fast-load-insensitive response and end-to-end noise immune voice transmissions, all without need of any extra wiring.

From this new-generation bus came VoB technology for voice over bus transmissions. The I-BUS allows the SmartLiving system to grow in accordance with installation needs. The bus accepts proximity readers, keypads with graphic displays, input/output expansions, wireless transceivers, GSM diallers and high security sirens/strobes. The SmartLiving system is capable of enrolling all the bus peripherals automatically for easy system configuration. The I-BUS can be protected, sectioned and regenerated by means of IB100 bus isolators/regenerators.



SmartLiving505 board



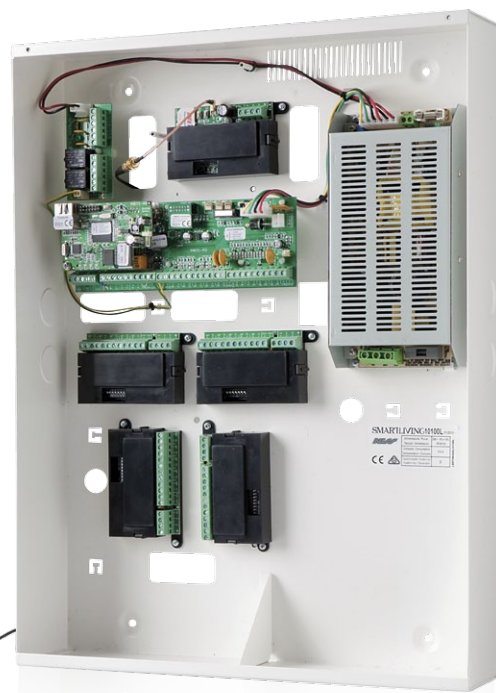
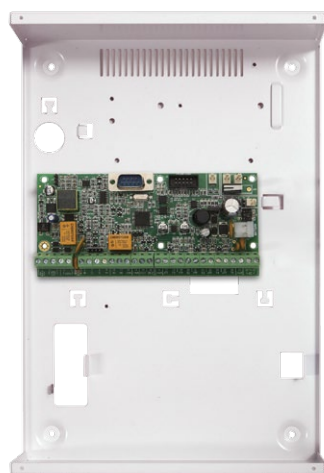
SmartLiving515 board



SmartLiving1050 board



SmartLiving10100 board



### System functions, features and options

The control panel can be enhanced with a SmartLogos Voice board. This board provides a vast assortment of advanced voice functions which make the Ness SmartLiving system a breakthrough product in the sector of intrusion control. The matrix is the brain of the system and allows the correlation of the actions and events the system manages. Each of the system events can be associated with output actions, voice dialler actions and digital dialler actions. The system can be accessed by user codes and proximity keys/cards. It is possible to associate each code/key/card with one of the Weekly Timers which can then be programmed to enable/disable it at certain times of the day.

The smartLiving system can be configured as a "hybrid" system in view of the fact that it is capable of managing both hardwired and "Air2" wireless peripherals. This type of configuration allows it to integrate the new-generation wireless capabilities provided by the "Air2" two-way transceiver. The excellence of connection flexibility offered by the SmartLiving system is yet another of its strong points.

The system offers an all-set-to-go Voice dialler and a likewise friendly Digital dialler that readily satisfies all the requirements of alarm central stations. The SmartLiving system can also be accessed and controlled over-the phone (PSTN). Additionally, if you wish to provide the system with an alternative communication channel over the GSM network, simply install the Ness Nexus. This innovative GSM device manages voice and digital communications, receives SMS commands and sends programmable SMS messages when specific events occur.

The SmartLAN/SI and SmartLAN/G boards also offer a level of connection flexibility which is unparalleled. These boards provide TCP/IP connectivity and allow the intrusion control panel to send e-mails and attachments. They allow end users/operators to access the system via the Internet and provide a web-server function. The latter allows end users/operators to connect to the control panel from any PC and verify the status of the system and interact with it. The web-server, embedded in the SmartLAN/G, also allows users/operators to use their Smartphones as SmartLiving wireless keypads, both inside the protected premises, via WiFi, or from any part of the world over GPRS.

The control panel can be programmed from any keypad or via a PC running SmartLeague software. Programming from a keypad is quick and easy, as it is possible to use the default settings which completely eliminate the need to configure the parameters of the Voice dialler and Digital dialler. This programming method is very straightforward, as the operator is guided through the process by means of explicit graphics and easily understandable visual instructions. Configuring the system from a PC is totally trouble free, as it is mainly a series of cut-and-paste and drag-and-drop operations which reduce the operators work to a minimum. SmartLeague software provides an innovative Text-to speech function which allows operators to create voice messages by merely typing-in the relative text. This function eliminates all the difficulties attached to normal voice recording. The high-speed RS232 port reduces local on-site programming to a split-second task.



**NCODE KEYPAD**

The SmartLiving nCode keypad provides a convenient and robust interface for your SmartLiving control panel. nCODE connects on the SmartLiving data bus for convenience of installation.

- Multi-line backlit matrix LCD with installer-customisable icons
- 4 x indicator LEDs
- 4 x programmable Function keys
- Tamper protected
- Dimensions 87x129x16.5mm WxHxD
- 1 x FlexIO terminal
- I-Bus device
- programmable as Inputs or outputs
- Compatible with all Ness SmartLiving control panels

Part No. 106-405



**ALIEN-S TOUCH SCREEN KEYPAD**

Alien-S is the touchscreen user interface the security market has been awaiting. For the ultimate in simplicity and clarity, It delivers an easy-to-use, intuitive interface for fast selection, interactive input and much more. Just a fingertip touch on the display arms, disarms or bypasses parts of the system or even activates pre-programmed scenarios and access advanced information on system status (zones, outputs) and event memory.

- 4.3" Colour Touch Screen
- Display brightness and contrast control
- Transparency adjustment
- On-board proximity reader and a sensor for room-temperature readings
- I-Bus device
- SD Card slot (SD card not supplied)
- USB port for system programming and saving images on the SD card
- Tamper protection
- Dimensions 131x81x17mm WxHxD

Part No. 106-406



**ALIEN-G TOUCH SCREEN KEYPAD**

In addition to all features and benefits of its companion keypad, Alien-G 7" touch screen offers an extra large 7" touch screen display and two programmable Input/Output terminals.

Just a fingertip touch on the display arms, disarms or bypasses parts of the system or even activates pre-programmed scenarios and access advanced information on system status (zones, outputs) and event memory.

- 7" Colour Touch Screen
- Display brightness and contrast control
- Transparency adjustment
- On-board proximity reader and a sensor for room-temperature readings
- I-Bus device
- SD Card slot (SD card not supplied)
- 2 x I/O terminals
- USB port for system programming and saving images on the SD card
- Tamper protection
- Dimensions 219x143x34mm WxHxD

Part No. 106-407



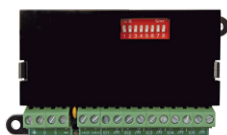
**EVOLUTION-S MULTIMEDIA INTERFACE**

Multimedia device for domotic (home automation) control on SmartLiving systems with Ethernet interface. In addition to intrusion-control functions, Evolution provides a generous range of multimedia and domotic functions. Supports up to 10 SmartLiving systems simultaneously.

- 7" Colour Touch Screen
- I-Bus device
- Dimensions 219x143x34mm WxHxD

Part No. 106-429

**Expansion & GSM/GPRS**



**FLEX5 I/O EXPANDER**

FLEX5 provides input and output expansion on the SmartLiving I-Bus

- 5 input/output terminals
- 4 terminals with vibration and roller-blind management
- Power terminals protected against short-circuit and polarity inversion
- Buzzer

Part No. 106-408



**NEXUS-G GSM/GPRS MODULE**

I-Bus integrated GSM/GPRS module for SmartLiving control panels. Nexus-G connects to the SmartLiving control panel data bus to provide data and voice alarm reports via GSM/GPRS, operation of the control panel via SMS as well as remote access and management via the SmartLeague software application.

Nexus-G can be programmed to send voice calls and digital reports via landline (PSTN) and GSM network (interfaced through the Nexus). Nexus provides a supplementary phone number (SIM number) for the management of incoming calls to the control panel. This allows the system to manage the voice-menu (DTMF commands over-the-phone)

Part No. 106-413



**SMARTLOGOS30M VOICE MODULE**

Plug-in voice message option for SmartLiving panels • Up to 30 minute voice capacity • Up to 400 voice messages

Part No. 106-409



**IB100A BUS ISOLATOR**

SmartLiving data bus and voltage isolator/repeater.

Part No. 106-410

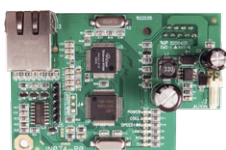


**SMARTLAN/G**

Ethernet board for network and Internet connection - TCP-IP and UDP protocols management

- Email with attachments • Manage any type of file as attachment
- Embedded webserver • Panel programming via Internet

Part No. 106-412



**SMARTLAN/SI**

Ethernet board for network and Internet connection. Provides panel programming via Internet

Part No. 106-411



**SMARTLIVING PROX READER - SURFACE**

Proximity RFID reader surface mount • 4 LEDs • Buzzer • I-Bus device • IP34

Part No. 106-424



**SMARTLIVING PROX READER - FLUSH**

Proximity RFID reader surface mount • 4 LEDs • Buzzer • I-Bus device • IP34

Part No. 106-425



**IVY-BF SIREN**

Outdoor siren with provision for battery backup • I-Bus device • Foam detection • Auxiliary activation input • Auxiliary inhibition input • Fault output • Double skin • Bus programmable parameters • LED strobe • Supports 12V 1.2Ah backup battery (not included) • IP34 rated • Dimensions 207x288x106 mm WxHxD

Part No. 106-422

**IVY SIREN**

Outdoor self-powered siren. Similar to the IVY-BF siren, this model is not an I-Bus device and can be used as a stand-alone universal siren on most other control panels.

Part No. 106-421



**AIR2-BS100/10 TRANSCEIVER**

10 Channel two-way transceiver. I-Bus device. Supports up to 10 detectors, up to 30 keyfobs. Part No. 106-414

**AIR2-BS100/50 TRANSCEIVER**

50 Channel two-way transceiver. I-Bus device. Supports up to 50 detectors, up to 100 keyfobs. Part No. 106-415



**AIR2-IR100 WIRELESS PIR**

Two-way communication PIR detector. 12m volumetric coverage. Remote sensitivity adjustment. Includes a unique battery saving option to disable device operation when the system is disarmed. CR123A battery included.

Part No. 106-416



**AIR2-KF100 KEY FOB**

Two-way wireless key fob with 4 buttons programmable from the SmartLiving panel • Multi-tone buzzer • Key lock function • CR2032 battery included

Part No. 106-417



**AIR2-MC100B WIRELESS REED SWITCH**

Two-way wireless reed switch • 2 inputs/outputs for wireless expansion • CR123A battery included

Part No. 106-418



**AIR2-MC200/B WIRELESS REED SWITCH+**

Two-way wireless reed switch with tilt and shock sensor • Programmable shock sensor (16 sensitivity levels) • Programmable tilt sensor • CR2 battery included. Part No. 106-419



**AIR2-FD100 WIRELESS SMOKE DETECTOR**

Two-way wireless advanced smoke detector • Tri-colour LED indicator: Normal operating status, fault, contamination in the optical chamber, low battery, alarm • CR17450 battery included.

Part No. 106-420

**SMARTLIVING CONTROL PANEL**

505      515      1050L      10100L

**Voice functions on SmartLogos30M board (accessory item)**

Automatic-Answerphone function (customizable)	Yes
Local voice-prompt menu (customizable)	Yes
Voice-prompt menu over-the-phone (customizable)	Yes
Automatic Voice-dialler	Yes
Message recording from PC (using microphone or .wav)	Yes
Message recording from PC (using text-to-speech function)	Yes

**Nexus and Nexus/G GSM functions**

Voice dialler over GSM Network	Yes
Sends pre-edited and customizable SMS text messages for each event	Yes
Programmable priority-management of PSTN and GSM channels for each event	Yes
Activates control panel shortcuts via SMS text message or CallerID	Yes
Answerphone and DTMF command management functions	Yes
Automatic credit enquiry	Yes
Voice, digital and SMS message Emergency communication	Yes

**Nexus/G functions**

SIA-IP protocol digital communicator	Yes
Control panel programming and management via GPRS	Yes
UCS2 character set management	Yes

**Other features**

Week-to-week timers (each with 15 'exception' periods) for automatic arming and enablement	10		20
Thermostats with manual, daily, weekly and antifreeze management	5	10	15
Programmable timer-controlled events	10	30	50
Automatic daylight saving time	Yes		
Programmable scenarios (arming configurations)	30		
Shortcuts (one-stroke actions)	37		
Programmable icons	50		
Number of trigger events	360	430	840      1430
Rolling event buffer	500		1000
Events log filter	Yes		
Saves compact event details	Yes		
Shortcuts on LEDs (4) on nBy Readers	Yes		
Manages Events-Actions matrix	Yes		
Generates "start of" event-related actions	Yes		
Generates "end of" event-related actions	Yes		
Zone test from keypad	Yes		
Programming software runs under Windows	Yes		

**SMARTLIVING CONTROL PANELS**

	505	515	1050L	10100L
<b>Hardware features</b>				
Number of terminals on the main board (Total with expansion)	5 (5)	5 (15)	10 (50)	10 (100)
Number of zones supported on the main board (Total with expansion)	10 (10)	10 (30)	20 (100)	20 (200)
Number of terminals available for mapping and relocation	5	15	50	100
Terminals on main board (configurable as inputs or outputs) •	5 (0)	5 (0)	10 (5)	10 (5)
Programmable relay on main board	1	1	1	1
Number of programmable open-collector outputs on main board	2 (150mA)		2 (500mA)	
Number of partitions available	5		10	15
Relay and power-diffusion board (accessory item)	-	-	Yes	
IP Connectivity management (using SmartLAN)			Yes	
Digital communicator with SIA-IP protocol (options SmartLAN/SI, SmartLAN/G, Nexus/G)			Yes	
Flex5 expansion board housing	-	-	Yes	
GSM device housing			Yes	
RS232 Port			Yes	
Power charge monitored by temperature probe (ProbeTh accessory item)			Yes	
Battery test circuit			Yes	
Control-panel firmware upgrading capability			Yes	
Peripheral-firmware upgrading capability via control panel			Yes	
Power supply	1.2A		6A	
Battery size supported in enclosure	7Ah		2 x 17Ah	
Enclosure construction, Dimensions (WxHxD)	Metal, 220x305x80 mm		Metal, 380x500x95 mm	
Weight without battery	2.5 Kg	2.5 Kg	5.1 Kg	5.3 Kg

**Input terminals**

Auto-learning of zone-balance •			Yes	
Zone doubling (each input manages 2 zones)			Yes	
Input terminals for vibration sensors (Nessensor) on main board			2	
Number of input terminals for vibration sensors (Nessensor) on expansion boards configurable as inputs or outputs			4	
Programmable End Of Line resistor values per terminal			Yes	
3 State (4 State) Monitoring per terminal			Yes (Yes, programmable)	
Input threshold trimmer •			Yes	

**I-Bus devices**

I-BUS peripherals enrolled automatically			Yes	
Number of nCode/G keypads supported	5		10	15
Number of nBy readers supported	10		20	30
Number of Flex5 5-terminal Expansions supported	4	10	20	40
Ivy-B Sounderflasher			10	
Air2 Wireless Transceivers supported (with automatic channel search)	4	10	20	30
Nexus GSM/GPRS module			1	

**Air2 wireless devices**

MC100 magnetic contact, IR100 infrared detector and FD100 smoke detector	5	15	50	100
Wireless keyfobs (KF100)	50		100	150

**Authentication**

Installer access codes			2	
Number of user-access codes (can be controlled by timers)	30		50	100
Number of nKey Tags or nCards card (can be controlled by timers)	50		100	150

**Telephone communications**

Telephone contact numbers			15	
Telephone line check			Yes	
Automatic voice dialler (SmartLogos30M option, refer to Voice functions)			Yes	
Integrated automatic digital-dialler			Yes	
Integrated remote programming modem			Yes	

• Patent Pending



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