PRIME

EN 50131-1
EN 50131-10
EN 50136-1
EN 50136-2
CEB T031

PrimeLAN

LAN network module

Installation and programming manual

inim

Table of contents

1. Description of PrimeLAN

Prime control panels have the ability to connect directly to LANs and to the Internet.

Network connectivity allows the installer to remotely program and supervise the system via LAN using Prime/STUDIO software, a web-browser, the Inim Electronics application or Cloud connection.

Using the optional PrimeLAN network board provides the user with additional features, such as:

- sending e-mails with attachments in relation to the control panel events
- interaction with the control panel via any browser thanks to an integrated web server. The web interface, after user authorization, allows you to:
  - view status of zones
  - view status of outputs
  - view status of partitions
  - view status of timers
  - view status of the Nexus
  - view contents of the events log
  - faults
  - view virtual keypads
  - view graphic maps
  - view system voltage
  - manage Onvif cameras (real time and video events)
- interface with KNX protocol systems
- interface with Modbus protocol systems

Thus the user will be able to arm/disarm partitions, bypass/unbypass zones, activate/deactivate the alarm and tamper memories.

Note

It is important to note that the e-mail service does not guarantee delivery time of e-mails and their attachments nor even their final delivery.

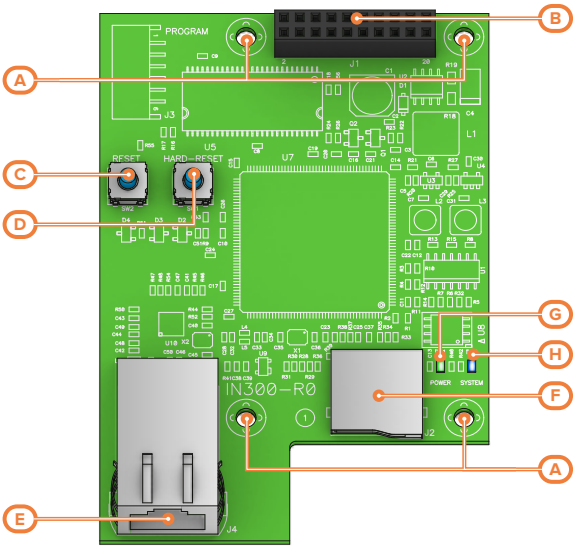
KNX Interface

PrimeLAN allows the Prime control panel to interface with systems that use the KNX protocol via the LAN.

When programming the control panel via Prime/STUDIO software, it is possible to translate commands and events into specific signals from and to the KNX system.

However, it is necessary to use a KNX/IP interface, KNX device to be connected to the LAN and to the KNX BUS.

1.1 Description of parts



[A]	Mounting screw location
[B]	Connectors for the motherboard (on the back) Connector for optional board
[C]	RESET button
[D]	HARD RESET button
[E]	RJ45 connector for LAN network
[F]	µSD-card connector
[G]	LED - board power
[H]	LED - connection between control panel and board

The board comes with:

- 4 x 16mm metal spacers for mounting purposes
- 4 M3 screws

1.2 Technical specifications of PrimeLAN

Operating voltage	13.8 V ⎓
Maximum current draw	30 mA
Operating environmental conditions	
Temperature	from -10 to +40 °C

Relative humidity	≤ 75 % without condensation
Degree of protection	IP 30
Environmental class	II
Dimensions	62.5 x 90 x 19 mm
Weight	30 gr
Maximum capacity of the µSD-card	32Gbyte
Security protocol	128-bit AES

SPT (Supervised Premises Transceiver) consumptions

Consumptions	PrimeLAN
Peak current	30 mA
Hourly average current	31 mA

1.3 ATS categories

Prime control panels whether used alone or combined with any of the optional transmission devices constitute an SPT (Supervised Premises Transceiver) which can be used to create an ATS (Alarm transmission System) as defined in EN 50136-1 and EN 50136-2 standards.

The maximum ATS categories achievable with SPT configurations and the main communication channel used together with the respective parameters are shown in the following tables.

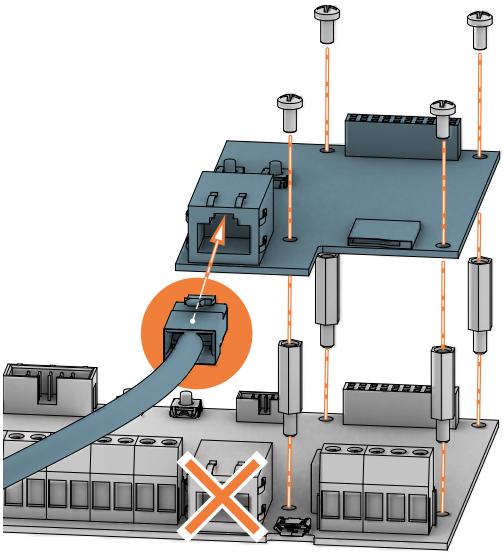
ATS categories based on configurations

SPT Configurations					SPT primary network interface	ATS categories	
Prime control panels	Nexus	Nexus/G-3G-4G	PrimeLAN	PrimeWiFi		Single Path (SP)	Dual Path (DP)
✓					Internet	6	2
✓	✓						
✓			✓				
✓	✓			✓			
✓		✓			Internet or GSM/GPRS/UMTS/HSPA	6	2
✓		✓	✓				
✓		✓		✓			

ATS parameters

ATS Categories		Transmission time		Time relation	Replacement security	Information security	Operating mode
		Classification	Maximum values				
Single Path	2	D2 (60s)	M2 (120s)	T2 (25h)	S0	I0	Pass-through
	6	D4 (10s)	M4 (20s)	T6 (20s)	S2	I3	
Dual Path	2	D3 (20s)	M3 (60s)	T3a (30min)	S0	I0	
	4	D4 (10s)	M4 (20s)	T5 (90s)	S2	I3	

2. Installing the PrimeLAN board



1. Disconnect the primary power supply to the control (230V~) and the backup battery.
2. Remove the 4 screws from the motherboard fixing holes that coincide with the holes for the optional board.
3. Replace the screws with the threaded metal spacers (supplied with the board).
4. Insert the board making sure that the connector on the back corresponds with the one on the mother-board.
5. Fix the 4 screws into the holes in correspondence with the spacers.
6. Power up the control panel by reconnecting the mains power (230V~) and backup battery.

Attention!

Installation of the PrimeLAN board disables the RJ45 connector integrated into the control panel motherboard.
Therefore, connection to the LAN will be possible only via the PrimeLAN board.

2.1 Connection to a LAN network

The Prime control panel can connect to a LAN network, both cabled via an Ethernet port, or via Wi-Fi through the optional PrimeWiFi module, and therefore have access to a local or Internet network.

Note

The connectivity to the Prime control panel LAN is subject to the configuration of the network itself.

The manufacturer strongly recommends that you contact the network administrator for the correct configuration.

The connection of the control panel and configuration of its settings can be carried out by the user from the user menu, which can be accessed via:

- LCD keypad
- keypad with touch-screen, after accessing the 'Settings - Alphanumeric display' section from the home page that operates as an LCD display

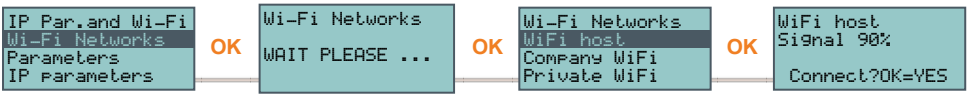
For the programmer it is possible to set the network parameters also thanks to the software, but only if there is a direct connection between the control panel and the PC.

Via keypad

`Type-in Code (User), Settings, IP Par.and Wi-Fi`

This section provides the following sub-sections:

- **Wi-Fi Networks** - by pressing the **OK** button the control panel will start scanning for available networks, those found will be listed in order in accordance with their signal strength.
  At this point the user can select a network and make the connection using the **OK** button, after entering the respective password, if required.



- **Parameters**:
  - **Enable DHCP** - if enabled, the IP connection parameters will be obtained automatically, in accordance with DHCP protocol.
  - **Enable Wi-Fi** - if enabled, the PrimeWiFi module will activate for the Wi-Fi connection.
  - **Test Internet** - if enabled, the control panel will automatically carry out an Internet connection test every 5 minutes, if failed, the system will force the restart of the Wi-Fi connection.

  Once the option has been selected, it is enabled using the " ☑ " button and disabled using " ☐ ". The **OK** button confirms any changes to the options.
- **IP Parameters** - this section is for the network parameter settings (IP address, subnet mask, gateway, DNS, communication port).

1. Use keys and to select the parameter then press **OK**.
2. Using the “left” and “right” arrow keys select the field you wish to change then, by means of the number keys, edit the number.
   Insert the octets inclusive of zeros (e.g.: 192168001010 per 192.168.1.10).
3. Press **OK** to confirm and exit.

After modifying these parameters, and in general, on exiting the “Settings” menu item, the control panel may restart completely.

Via software

1. Start the Prime/STUDIO software application and access the “Settings, Communication port” section of the menu.
2. Select the “LAN/WiFi” connection in the “Communication type” field.
3. In the “IP Address” section, type in your credentials in the “IP Address” and “Password” fields.
4. Click on **OK** to start the connection.

As an alternative to the procedure indicated above, it is possible to set the Wi-Fi network and connect to it by following the quick guide made available through the appropriate menu button on the left.

Note

The procedure is available only when the connection between the PC in use and the control panel is made via USB.

2.2 Network connection test

You can start the Internet/Cloud connectivity test via your user menu.

Via keypad

`Type-in Code (User), Settings, Connection test`

This test starts the following checks in succession:

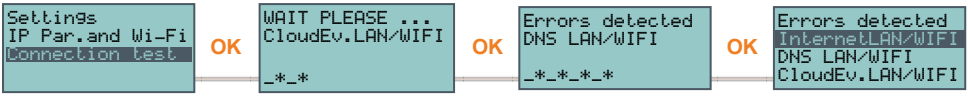
- Internet connection test via LAN/Wi-Fi network
- Internet connection test via GSM communicator
- DNS resolution test via LAN/Wi-Fi network
- DNS resolution test via GSM communicator
- Cloud “Events” channel connection test via LAN/Wi-Fi network
- Cloud “Events” channel connection test via GSM communicator
- Cloud “Commands” channel connection test via LAN/Wi-Fi network
- Cloud “Commands” channel connection test via GSM communicator

During the execution of the test, the first line of the display will show the wording ‘Wait’ while the second line of the display shows the description of the test currently in progress.

On completion of each test, the keypad display shows the test result on the fourth line:

- an asterisk (“*”) if the test is completed successfully;
- a dash (“_”) if the test fails.

On completion of all the tests, if communication is successful, the following message will be shown on the first two lines: “Test carried out successfully” otherwise the generic wording “Errors detected Press OK” will be shown. When the **OK** button is pressed, any failed tests will be listed.



Note

If the Ethernet connector is disconnected or if the Nexus GSM communicator is not present or does not respond, or if there is a GSM communicator model without IP communication capacity, the tests relating to these communication channels will not be carried out.
If a PrimeLAN module is present on the control panel, the test relating to the LAN channels will be started regardless of whether the Ethernet connector is connected or not to a network.

3. Programming the PrimeLAN board

Attention!

Programming of the PrimeLAN board is possible only via the Prime/STUDIO software.

Via software

The button on menu on the left-**PrimeLAN settings** allows you to read and program the PrimeLAN Ethernet interface board.

The programming data read is that of the board, the sent programming data will be saved to the memory of the board connected to the control panel and not to the control panel memory.

3.1 Programming IP parameters

Connectivity to the LAN network is subject to the configuration of the network itself.

The manufacturer strongly recommends that you contact the network administrator for the correct configuration.

IP connection

Parameter		Software section	Installer menu section	User menu section
IP Address **Subnet mask** **Gateway** **DNS** **Communication port**	Connection parameters	IP connection parameters, Connection parameters	Other parameters, IP parameters	Settings, IP Par. and Wi-Fi IP parameters
Web server port **SSL port**			–	–
Obtain an IP address automatically	If this option is enabled the above items are not required. The protocol used is DHCP.		Parameters Enable DHCP	Parameters Enable DHCP
Enable UPnP	This option enables UPnP protocol which automatically activates "port-forwarding" through the network router of the communication, web and SSL ports.		–	–
Domain **User name** **Password**	In the case of a connection with a dynamic public IP address, it is useful to use a domain name in order to be able to track the LAN card at all times. Prime supports the service offered by: • dyndns.org • freedns.afraid.org • no-ip.com • camsec.net • inimdns.biz	IP Connection parameters, DNS dynamic	–	–

Parameter		Software section	Installer menu section	User menu section
	By registering at one of these addresses, you will obtain the access data required in this programming section:			
Update every	This interval (expressed in seconds) will be applied by the LAN when updating the association of the selected domain with the public IP address.		–	–
Check DDNS account	This button start the DDNS account verification (for “inimdns.biz” service only).		–	–
Enable NTP synchronization	If enabled, the Prime control panel clock will be synchronized with NTP protocol, therefore, it will be necessary to indicate: • **Server** • **Update every** - this is the time, expressed in seconds, that elapses between successive time updates.	IP connection parameters, Configure NTP client	–	–
Enable Modbus	If enabled, the Modbus/IP service on the LAN board will be activated; in this case it is necessary to indicate: • **Port** • **Access Codes**	Connection parameters, Modbus	–	–
This section allows the programming of the parameters of the IP connection test.		IP connection parameters, IP connection test parameters	–	–
IP address	Pv4 Address and port connection attempts are directed to.		–	–
Port				
Range	Time, expressed in seconds, between connection tests. If “0” is set, the connection test will be disabled.		–	–
Number of attempts	Number of connection attempts for each test.		–	–

3.2 Programming e-mails

The use of the optional PrimeLAN board provides the user with the possibility of sending e-mails with attachments relating to the control panel events.

The sending of e-mails on activation or restoral of events depends on the activation of the ‘Memory’ option of each event.

E-mail parameters

Parameter		Software section
Subject	This is the “Subject” field of e-mails, the PrimeLAN board will use this parameter as the subject for all types of events. Depending on the configuration of the e-mail messages, the “Subject” field can be integrated with a general indication of the type of event or a customized text	E-mail parameters, Parameters
Sender	This is the e-mail address of the sender.	
Mail Server	Address of the SMTP server of outgoing post.	
Port	This is the out port of the post server (SMTP).	
Account	This field is for the selection of a domain for which an automatic configuration of the parameters can be obtained by pressing **Preconfigure**.	
SSL Method	Checkbox for the selection of the SSL protocol	
Timeout (s)	Selection field for the maximum time (from 60 to 300 seconds) within which the control panel must send an email to the post server.	

Parameter		Software section
Authentication request	Checkbox for the selection of the authentication type	
User name **Password**	Authentication credentials of the SMTP server selected above	
Id. **Name** **Address**	Section for the creation of the address book, with the data of the recipients of the e-mail messages. This data can be programmed both in this section and during the assignment of the recipients to the e-mail message. It is possible to save up to 20 e-mail contacts.	 E-mail parameters, Address book

Following are the parameters that allow you to configure the e-mail messages, setting the text and associating it with the occurrence of events and certain recipients:

Email message configuration

Parameter		Software section
Event type	Selection field for the selection of type of events to be programmed. The application will show all the programmable events for the selected type.	 Email configuration
Activation / Restoral	The “Activation” and “Restoral” sections are the same and are intended, respectively, for the programming of the dispatch of e-mails when the event occurs (Activation) and when the event ends (Restoral).	
Sel	If you click on the respective check boxes of events with this option enabled, you can program simultaneously the recipient contacts, text and attachments, as described in the following paragraphs. If you right click on the header on this column, you will be able to carry out selections/deselections which involve all the control panel events or all the events of the same type.	
Re: (events log)	If this option is enabled, the message text of the event will be saved to the control panel memory. If you right click on the header on this column, you will can carry out selections/deselections which involve all the control panel events or all the events of the same type.	
Recipients	Double click on the respective check box to access the e-mail addresses in the contact list. The **Contacts** window allows you to select and change the e-mail addresses of the recipients. There are 3 buttons: • **Apply** - this option allows you to add or delete the recipients of the selected event only. • **Apply to events of the selected group** - this option allows you to add or delete the recipients of all events of the same type as the selected event. • **Apply to all the selected control panel events** - this option allows you to add or delete the recipient contacts for all the selected control panel events.	
Subject	For each event, this option allows you to edit the information provided with the subject of the e-mail in addition to what is indicated in *Tabella: E-mail parameters*. Double-clicking on the checkbox of the relevant event accesses the **Message subject** field where you can edit a text: • if this text filed is left empty, the e-mail subject will also contain the generic type of event • if a text is entered, the subject will also include the text specified for the single event The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described. The **Set default for selected** button automatically configures the object in the format: “event type - reference”. If the mouse arrow is positioned on the text body, the contents will be shown as a tooltip.	
Text body	This option allows you to edit the text body of the e-mail for each event. Double click on the respective event field to access the message **Text body** window where you can write a text of up to 512 characters on several lines. You can also add links for direct access to web pages or LAN devices (for example, IP cameras), in this case, you must always include ‘http://’. The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described. If the mouse arrow is positioned on the text body, the contents will be shown as a tooltip.	

Parameter		Software section
Attachment	This allows you to attach a document/file to the e-mail for each event. A double click on the checkbox of the selected event accesses the **Explore** window where you can load or cancel the selected file from the SD-card. The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described.	
Camera	It is possible to associate a camera to each event. A double click on the relative field of the selected event will open the **Select Onvif camera** window. This window will allow you to select a camera from those configured and select two presets for it. The presets can be selected from those listed after updating the dedicated section (refer to *Onvif cameras*). The 3 buttons **Apply**, **Apply to events of the selected group** and **Apply to all the selected control panel events** have the same functions as previously described.	
Record on SD	If enabled, the recorded frames will be saved to the SD card that is inserted into the PrimeLAN board.	

3.3 Graphic map configuration

The Prime monitoring functions are based on graphic maps which can accessed by the end-user through an Alien keypad or web interface. The user, by means of access to a graphic map, can view the supervised partition and also access the security system functions.

The Alien keypad can manage up to 10 maps (revisions below 2.00 can manage up to 5 maps) and the web interface up to 20. Each map supports up to 20 objects/buttons represented by icons.

Note

In order to use the graphic maps it is necessary to use an SDcard in micro-SD format.

The card must inserted into the slot on the Alien keypad, for the configuration and access to the Alien keypad maps, or inserted into the slot on the PrimeLAN Ethernet interface board for the web accessible maps.

The programming of the maps of an Alien keypad is uniquely linked to the SDcard used.
Changing the SDcard or using it in several keypads causes the programming to be completely lost and can cause keypad malfunction.

Via software

Exclusively using the Prime/STUDIO software, access to the map configuration is achieved through the sections:

- **Graphic maps of the Alien keypad** - click on the **Keypads** button on the menu on the left, from the section on the right select the “Touchscreen” keypad type to access the “Maps” section.

- **Graphic maps of the web interface** - click on the **PrimeLAN settings** button on the menu on the left then go to the ‘Programming - Alien Maps’ section on the right.

A field, located in the centre of both sections, shows the images of the current maps.

Above this is a bar with the icons of the objects to be inserted and the buttons to edit the current map.

To the left of this is the graphic-map tree with the objects inserted.

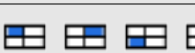
New map

The construction of a new map is carried out as follows:

1. Add a new map by clicking on the button.
2. Associate an image with the map by selecting a file by means of the button.
3. Insert an object from among those available on the icons bar.
   The objects are inserted by clicking on the respective icon on the bar and then by clicking on the point on the map where you wish to place it.
4. Load the configured map in the control panel by means of the button.

If, instead, you intend to change the maps that are already programmed in the control panel, you must first read the configuration by means of the button and then implement the changes.

Map configuration buttons

Keys	Alien Programming	Programming Web interface
Object icons		
	Left-clicking on any one of the icons positioned on the map will highlight the icon which will then be shown in a frame that allows its resizing or repositioning. Right-clicking on any one of the icons positioned on the map or map tree on the left allows the deletion of the object concerned or modification of its settings; in this case a window will open showing all the editable settings (refer to *Tabella: Map object settings*).	
	Button to show or hide the map tree located to the left of the displayed map.	
	Buttons for the addition of a new map in the last position on the map tree or for the deletion of the last map on the map tree.	
	Button for the insertion or overwriting of the background image of the current map. The name of the current image file is indicated in the lower section.	
	The selection of several icons by means of these buttons will allow you to create their alignment.	
	By selecting several icons, with these buttons it is possible to change their dimensions by assigning them the dimensions of the first icon selected (width, height or both).	
	Not available	The selection of an icon, by means of these buttons, will allow you to resize and reposition the icon so that it occupies a quarter of the image.
	Button to read the configured maps from the keypad or from the PrimeLAN so that they can be modified.	
	Button to write on the keypad or on the PrimeLAN the newly configured or modified maps after a reading.	

Map object settings

Section	Parameter		Note
Size and position	**Height, Width, Position X and Y**	Number fields for the dimensions of the object icon and its position on the map.	
	String	Field for the string that appears over the icon.	For Alien only
		Button for the definition of the colour of the string.	
Control panel	**Selection checkbox for the selection of the part of the anti-intrusion system the icon refers to.**		Zone, partition, output, scenario, keypad
Map link	**Field for the selection of the map the link refers to.** **For web interfaces it is possible to indicate the home page.**		

Section	Parameter		Note
Web cam	**URL** **jpeg, m-jpeg**	Configuration parameters for the webcam.	For the web interface only.
Images	**Section containing the icons which replace the current icons in the event of status change of the represented object.** **For keypad maps, it is possible to indicate the strings that will appear (when the occurrence requires) below the current string, indicated previously mentioned.**		
		Button to select the image that will replace the default image.	
		Button for the deletion of the selected image.	For the web interface only.
		Button for the definition of the colour of the string.	For Alien only
		Button to reset the factory default images	
Options	**Command selection window**	If enabled, touching the icon on the map will open a window on the display for command selection.	For Alien only. The commands implement a status change on the object. The type of status depends on the type of object: Arming type - for a “Partition status” object Activation/Enablement status - for a “Zone” object Activation/Enablement status - for an “Output” object Activation/Enablement status - for a “Scenario” object
	Command with authorization request	If enabled, the keypad will request user-code entry before activating the command associated with the icon.	
	Switch/Invert	If enabled, touching the icon on the map will immediately switch/invert the status of the object it represents. The “Partition status” object requires further indications relating to the arming type which is to be switched to Away status (totally disarmed).	
	Immediate command	If enabled, touching the icon on the map will almost immediately activate the command. The command can be selected from the drop-down menu which appears.	
	View status	If enabled, this option allows the visualization on the display of status changes on an object by means of changes on the icon, in accordance with the configuration selected in the “Image” section.	
		Button to reset the factory default settings.	

3.4 Onvif Camera

Remote PTZ control and preset audio/video profiles allow hassle-free user interaction with ONVIF protocol cameras.

The PrimeLAN board provides support for JPEG and MJPEG streams for surveillance cameras and allows users to retrieve and view video recordings and snapshots. Interaction with ONVIF cameras allows viewing of recorded images (videos and snapshots) previous to and after the occurrence of an event.

The frames are sent as attachments to emails associated with events or are stored for viewing using a web interface or Inim Electronics application, through the ‘Camera’ section.

To do this it is necessary to:

1. program the ONVIF camera (using its own presets), provide it with the PTZ presets necessary for viewing the zone under surveillance and recorded video
2. associate a camera with the occurrence (activation or restoral) of an event through the *Email configuration* section

3. activate the **Record on SD** option for the viewing of recorded frames through a web interface
4. using the Prime/STUDIO software, configure the ONVIF camera by clicking-on the **PrimeLAN settings** button and then going to the 'Programming - ONVIF camera management' section on the right.

This section provides a pane containing the list of the configured cameras. At the side of this is another section containing the parameters relative to the selected camera:

ONVIF camera parameters

Parameter		Software section
	Buttons for the addition of a new camera or for the deletion of the selected camera.	 ONVIF camera management
Include Security Header in messages	This option, if enabled, includes the 'Security Header' in the SOAP messages for the communication with Onvif devices.	
Description	This is the description of the selected camera.	 ONVIF camera management, Camera
IP address **Port** **User name** **Password**	Parameter that permits access to the selected camera.	
https	If selected, a secure HTTPS connection will be used.	
Multimedial profile	Field for the selection of one of the multimedia profiles of the camera. These profiles are listed following a read operation requested by pressing the  button. The  button opens a window showing all the available profiles and where you can edit the 'Token' and name of each one. The window provides two buttons: •  - for manual entry of a profile in the list •  - for deletion of the selected profile	
Pan - Tilt - Zoom	This field indicates whether the selected camera is equipped with PTZ (Pan, Tilt, Zoom) capabilities.	
Preset available for the selected profile	This section lists all the presets relating to the profile selected in the previously mentioned programming field. These presets are listed following a read operation requested by pressing the  button. The  button opens a window showing all the available presets and where you can edit the 'Token' and name of each one. The window provides two buttons: •  - for manual entry of a preset in the list •  - for deletion of the selected preset	
URI Snapshot **URI Stream**	This field allows you to view the addresses (URIs) of frames shots and audio/video streams. These addresses are listed following read operation requested by pressing the  button.	
Sampling frequency	This is the time that must elapse between two successive frame shots (max. 60 seconds).	
Number of frames pre/post event	This is the number of frames (from 0 to 5) which will be saved to the memory before/after the occurrence of the event the camera is associated with.	
Images	The image in the lower part of the section reproduces the instant frame of the camera selected after pressing the  button. Clicking on the image itself opens window for the viewing of video footage in real-time, control of the camera functions and display of the available presets.	

3.5 Programming KNX interface

By clicking on the **PrimeLAN settings** button on the menu on the left, you will access the 'Programming KNX' section.

This section contains three further sections, one for setting the parameters of the KNX gateway and communicating with it, the other boards for translating of signals to and from the KNX system.

KNX gateway parameters

Parameter		Software section
Enable KNX function	This option enables communication between Prime and KNX systems.	Programming KNX, General settings
IP address / UDP Port / Group address of the KNX gateway	Check boxes for setting the KNX-IP interface gateway data.	
Control panel code	Checkbox to indicate the Prime user code for commands and actions from KNX devices.	
Polling time	Time interval in seconds of interrogation of the Prime control panel.	
KeepAlive time	Time interval in seconds between two successive supervision signals of the KNX gateway.	
Enable SYNC function	Option that enables the SYNC function. If enabled, it is necessary to enter the address and bit in the appropriate checkboxes.	

Control panel code

When necessary for the security system, it is useful for the installer to create an additional Prime user equipped with a PIN code, capable of carrying out commands and actions from KNX devices even when validation from the Prime control panel is required.

SYNC function

By activating this option, the PrimeLAN board sends an update of the control panel statuses to the KNX system either automatically, whenever the connection with the system is lost, or manually, on receipt of the specified telegram.

From control panel to KNX

This section allows you to define which panel events must be communicated to the KNX system via commands or actions and to translate these into "KNX telegrams".

These events (maximum of 3000) are added to the list below via the appropriate button  .

Signals from control panel to KNX system

Parameter		Software section
Value	Checkbox to indicate the event type.	Programming KNX, From control panel to KNX
Element	Checkbox to indicate the parameter of the type of event that defines the event itself.	
Element category	Checkbox to indicate the category of the element that defines the event.	
KNX telegram	Check boxes to enter the KNX telegram to be sent following the corresponding event.	
Activation/Restoral	Fields for the datapoint value relating to the telegram to be transmitted on activation and restoral.	
...	Button to open the "Add KNX telegram" window.	
Delete	Button to delete the corresponding event from the list	

KNX solutions

The 'Add KNX telegram' window, which is opened by the button '**...**', provides the **Open** button to open '.esf' format files, the solution files of KNX programming software.

Once one of these solutions has been selected the window will show a tree structure with the various elements of the KNX system and the relative telegrams. A double click on one of these items allows you to import the telegram into the appropriate field.

From KNX to control panel

This section allows you to define which signals from the KNX system in the form of 'KNX telegrams' must be communicated to the control panel and which actions must be performed.

These events are added to the list below via the appropriate button  for a maximum of 3000 actions.

Signals from KNX system to Prime control panel

Parameter		Software section
KNX Event	Field for the insertion KNX telegram, signal from the KNX system corresponding to an event.	 Programming KNX, From KNX to control panel
...	Button to open the "Add KNX telegram" window.	
Actions on control panel	Checkbox to indicate the action to be activated on the Prime control panel.	
Element /Mode	Action parameter.	
Execute if bit=0	Options that activate the action on the control panel depending on the bit associated with the signal from the KNX.	
Execute if bit=1		
Execute anyway		
Execute as a bit		
Delete	Button to delete the corresponding event from the list	

The activation of an action in the Prime control panel triggered by a signal from a KNX system depends on the value of the bit that accompanies each telegram and on the selection of one of the "execute" parameters indicated above. Following is an explanatory table:

Actions on control panel from KNX system

Action		Execute if bit=0		Execute if bit=1		Execute anyway		Execute as a bit	
on control panel	**Mode**	**bit=0**	**bit=1**	**bit=0**	**bit=1**	**bit=0**	**bit=1**	**bit=0**	**bit=1**
Arm in Stay mode	**Away mode**	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation "Disarm"	Activation action
	Stay Arm	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation "Disarm"	Activation action
	Instant mode	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation "Disarm"	Activation action
	Disarm	Activation action	No action	No action	**Activation action**	Activation action	Activation action	No action	Activation action
	Reset	Activation action	No action	No action	**Activation action**	Activation action	Activation action	No action	Activation action
Zone bypass	**Bypass**	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation "Unbypass"	Activation action
	Unbypass	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation "Bypass"	Activation action
Activate exit	**Activation**	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation "Deactivation"	Activation action

Action		Execute if bit=0		Execute if bit=1		Execute anyway		Execute as a bit	
on control panel	Mode	bit=0	bit=1	bit=0	bit=1	bit=0	bit=1	bit=0	bit=1
	Deactivation	Activation action	No action	No action	**Activation action**	Activation action	Activation action	Activation “Activation”	Activation action
Activation scenario	**Activation**	Activation action	No action	No action	**Activation action**	Activation action	Activation action	No action	Activation action

3.6 Firmware updating

Through a direct connection between the Prime/STUDIO software and the Prime control panel, it is possible to update the PrimeLAN board firmware to the latest revision available at moment of the software release.

Via software

Clicking on the **Firmware update** button on the menu on the top right opens a section with the available updates and the start procedure button.

Click on the button to start the updating of the control-panel peripherals and, on completion, just before the PrimeLAN update, you will be asked to confirm the operation.

Attention!

In order to avoid invalidating the procedure, do not switch off or disconnect the PC or control panel during the updating process.

4. General information

4.1 About this manual

Manual code: DCMIINE0PRIMELAN

Revision: 120

4.2 Manufacturer's details

Manufacturer: Inim Electronics S.r.l.

Production plant: Centobuchi, via Dei Lavoratori 10

63076 Monteprandone (AP), Italy

Tel.: +39 0735 705007

Fax: +39 0735 734912

E-mail info@inim.biz

Web: www.inim.biz

The persons authorized by the manufacturer to repair or replace the parts of this system have authorization to work only on devices marketed under the brand Inim Electronics.

4.3 Warranty

Inim Electronics S.r.l.. (Seller, Our, Us) warrants the original purchaser that this product shall be free from defects in materials and workmanship under normal use for a period of 24 months.

As Inim Electronics does not install this product directly, and due to the possibility that it may be used with other equipment not approved by Us;Inim Electronics does not warrant against loss of quality, degradation of performance of this product or actual damage that results from the use of products, parts or other replaceable items (such as consumables) that are neither made nor recommended by Inim Electronics. Seller obligation and liability under this warranty is expressly limited to repairing or replacing, at Seller's option, any product not meeting the specifications. In no event shall Inim Electronics be liable to the purchaser or any other person for any loss or damage whether direct of indirect or consequential or incidental, including without limitation, any damages for lost profits, stolen goods, or claims by any other party caused by defective products or otherwise arising from the incorrect or otherwise improper installation or use of this product.

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover damage arising from improper maintenance or negligence, damage caused by fire, flood, wind or lightning, vandalism, fair wear and tear.

Inim Electronics S.r.l. shall, at its option, repair or replace any defective products. Improper use, that is, use for purposes other than those mentioned in this manual will void the warranty. Contact Our authorized dealer, or visit our website for further information regarding this warranty.

4.4 Limited warranty

Inim Electronics S.r.l. shall not be liable to the purchaser or any other person for damage arising from improper storage, handling or use of this product.

Installation of this Product must be carried out by qualified persons appointed by Inim Electronics. Installation of this Product must be carried out in accordance with Our instructions in the product manual.

4.5 Processing of personal data

Prime control panels, by attributing them to installers and users registered with the Inim Cloud service, can be managed through dedicated web pages and/or apps available to both the installer and the end user.

In order to allow management of the control panel via Inim Cloud an explicit request is required from the users to whom the control panel is to be associated.

As soon as a control panel is connected to a LAN or a GSM/LTE network, it will be available on the Inim Cloud, however, until the association is explicitly requested by a user the data exchanged are:

- purely technical (in order to allow an association to a user in the future) and do not include any personal data
- always encrypted
- free from any correlation with personal data that may already be present in the Inim Cloud

The control panel events log becomes available only after associating the control panel with the users and can be viewed chronologically from the moment of such an association.

If you do not want to manage the control panel via Inim Cloud and/or do not want to allow any type of connection to Inim Cloud in advance, simply disable the connection with the service via programming (refer to "*Enablement for programming*").

4.6 Documents for the users

Declarations of Performance, Declarations of Conformity and Certificates concerning to Inim Electronics S.r.l. products may be downloaded free of charge from the web address www.inim.biz, getting access to Extended Access and then selecting "Certifications" or requested to the e-mail address info@inim.biz or requested by ordinary mail to the address shown in this document.

Manuals may be downloaded free of charge from the web address www.inim.biz, getting access to the reserved area, after the login, and then to the section of each product.

4.7 Disposal of the product

Informative notice regarding the disposal of electrical and electronic equipment (applicable in countries with differentiated waste collection systems)

The crossed-out bin symbol on the equipment or on its packaging indicates that the product must be disposed of correctly at the end of its working life and should never be disposed of together with general household waste. The user, therefore, must take the equipment that has reached the end of its working

life to the appropriate civic amenities site designated to the differentiated collection of electrical and electronic waste. As an alternative to the autonomous-management of electrical and electronic waste, you can hand over the equipment you wish to dispose of to a dealer when purchasing new equipment of the same type. You are also entitled to convey for disposal small electronic-waste products with dimensions of less than 25cm to the premises of electronic retail outlets with sales areas of at least 400m2, free of charge and without any obligation to buy. Appropriate differentiated waste collection for the subsequent recycling of the discarded equipment, its treatment and its environmentally compatible disposal helps to avoid possible negative effects on the environment and on health and favours the re-use and/or recycling of the materials it is made of.

Evolving Security

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