Simply Better Connections

VK108US / VK112EU

ATEN Keypad

User Manual

Compliance Statements

FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Warning

Operation of this equipment in a residential environment could cause radio interference.

Achtung

Der Gebrauch dieses Geräts in Wohnumgebung kann Funkstörungen verursachen.

KCC Statement

유선 제품용 / A 급 기기 (업무용 방송 통신 기기)
이 기기는 업무용 (A 급) 전자파적합기기로서 판매자 또는 사용자는 이 점을 주의하시기 바라며 , 가정 외의 지역에서 사용하는 것을 목적으로 합니다 .

Industry Canada Statement

This Class A digital apparatus complies with Canadian ICES-003.

CAN ICES-003 (A) / NMB-003 (A)

RoHS

This product is RoHS compliant.

User Information

Online Registration

Be sure to register your product at our online support center:

International	http://eservice.aten.com

Telephone Support

For telephone support, call this number:

International	886-2-8692-6959
China	86-400-810-0-810
Japan	81-3-5615-5811
Korea	82-2-467-6789
North America	1-888-999-ATEN ext 4988 1-949-428-1111

User Notice

All information, documentation, and specifications contained in this manual are subject to change without prior notification by the manufacturer. The manufacturer makes no representations or warranties, either expressed or implied, with respect to the contents hereof and specifically disclaims any warranties as to merchantability or fitness for any particular purpose. Any of the manufacturer's software described in this manual is sold or licensed *as is*. Should the programs prove defective following their purchase, the buyer (and not the manufacturer, its distributor, or its dealer), assumes the entire cost of all necessary servicing, repair and any incidental or consequential damages resulting from any defect in the software.

The manufacturer of this system is not responsible for any radio and/or TV interference caused by unauthorized modifications to this device. It is the responsibility of the user to correct such interference.

The manufacturer is not responsible for any damage incurred in the operation of this system if the correct operational voltage setting was not selected prior to operation. PLEASE VERIFY THAT THE VOLTAGE SETTING IS CORRECT BEFORE USE.

Product Information

For information about all ATEN products and how they can help you connect without limits, visit ATEN on the Web or contact an ATEN Authorized Reseller. Visit ATEN on the Web for a list of locations and telephone numbers:

International	http://www.aten.com
North America	http://www.aten-usa.com

Package Contents

Check to make sure that all the components are in working order. If you encounter any problem, please contact your dealer.

VK112EU

- 1 VK112EU 12-Button Keypad
- 1 button pack
- 1 2-pin terminal block
- 1 faceplate
- 1 user instructions

VK108US

- 1 VK108US 8-Button Keypad
- 1 button pack
- 1 2-pin terminal block
- 1 faceplate
- 1 user instructions

About this Manual

This user manual is provided to help you get the most from your ATEN Control System. It covers all aspects of installation, configuration, and operation of the ATEN controllers, configuration software, and their accessories, including:

Model Number	Description
VK108US	8-Button Keypad (US, 1 Gang), white panel
VK112EU	12-Button Keypad (EU, 2 Gang), white panel

Note:

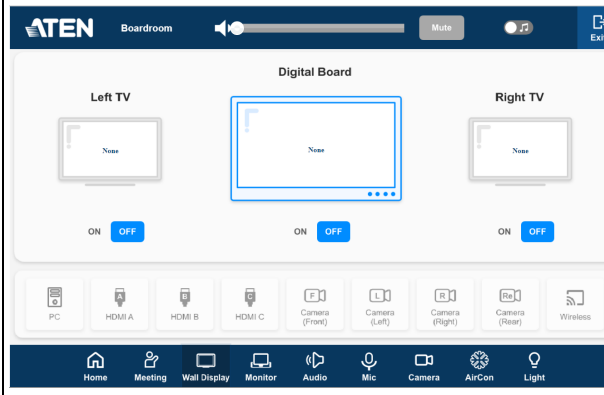
- Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit and/or connected devices.
- The product may be updated, with features and functions added, improved, or removed since the release of this manual. For an up-to-date user manual, visit http://www.aten.com/global/en/

Conventions

This manual uses the following conventions:

`Monospaced`	Indicates text that you should key in.
[ ]	Indicates keys you should press. For example, [Enter] means to press the **Enter** key. If keys need to be chorded, they appear together in the same bracket with a plus sign between them: [Ctrl+Alt].
1.	Numbered lists represent procedures with sequential steps.
♦	Bullet lists provide information, but do not involve sequential steps.
>	Indicates consecutive selecting options (such as on a menu or dialog box). For example, Start > Run means to open the *Start* menu, and then select *Run*.
⚠	Indicates critical information.

Terminology

Terminology	Description
controller	A controller refers to any model of ATEN Control Box Gen. 2 and Control Pad.
Viewer	A Viewer is a software control interface that system operators use to control and operate devices managed by ATEN control system. The Viewer is fully configurable and customizable using ATEN Configurator. For example: 
Project	A project is a configuration file, generated using ATEN Configurator to specify settings of an ATEN Control System, including one or multiple controllers, managed devices, and control interfaces.

Contents

Compliance Statements ii
User Information iv
Telephone Support iv
Product Information v
Package Contents v
VK112EU v
VK108US v
About this Manual vi
Conventions vi
Terminology vii
Contents viii

1. Introduction

Features 1
Compatible Products and Accessories 2
Application Diagram 2

2. Hardware Setup

Hardware Overview 3
VK112EU 4
LED Indications 5
Layout Examples 5
VK112EU 6
Button Engraving Service 6
Installing ATEN Keypad 7

3. Web-based Configuration

Keypad IP Address 11
Determining the Keypad IP Address 11
Login 13
System Settings 14
General 14
Network 15
System Log 15
Access 16

Appendix

Safety Instructions 17
Technical Support 19

Specifications 20
VK108US 20
VK112EU 20
CAD and Panel Cutout Diagrams 21
VK108US 21
VK112EU 25
ATEN Standard Warranty Policy 29

Chapter 1
Introduction

The ATEN Keypad is a fully customizable keypad designed to work with an ATEN Control Box to provide easy and quick access to frequently used controls for small to medium-sized meeting rooms or classrooms. This chapter provides the following information:

- *Features*
- *Compatible Products and Accessories*
- *Application Diagram*

Features

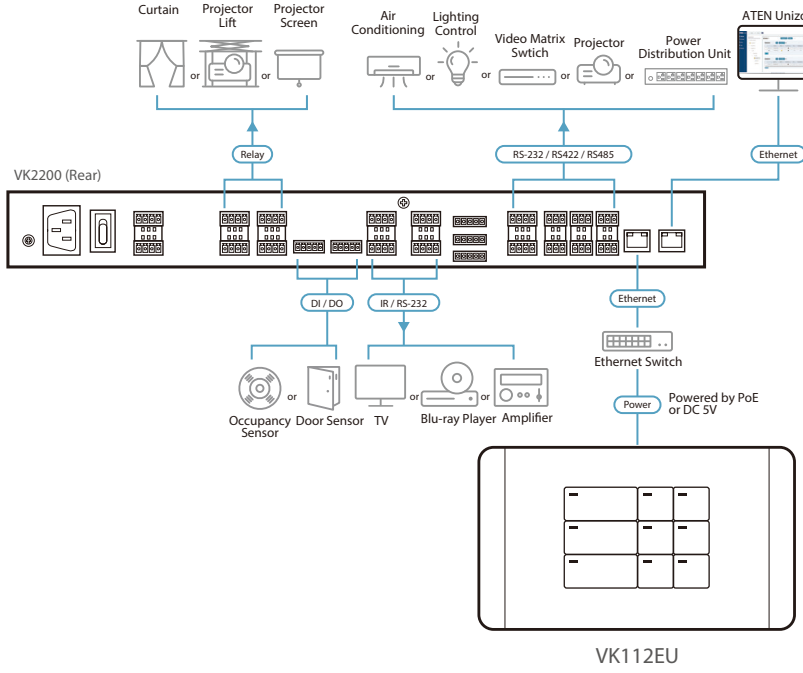
- Fully customizable layout combinations
  - VK112EU—supports 125 layout combinations using 6 to 12 buttons
  - VK108US—supports 14 layout combinations using 4 to 8 buttons
- Available in black or white
- Convenient connection status check with the system LED
- Dual-color button LEDs for clear indication and visibility in dark environments
- Easy ID pairing with Control Box for Ethernet communication
- Scalable setup—supports up to 8 Keypads per Control Box
- Versatile modes for flexible behavior settings per button
- Intuitive web GUI for easy keypad configuration
- Dual power supplies with Power over Ethernet (PoE) and DC power
- Customized button engraving service available
- Flexible installation using the VK112EUTTK keypad tabletop kit—supports table and wall mounting

Compatible Products and Accessories

The ATEN Keypad is compatible with the ATEN Control Boxes, Control Pads, and a tabletop kit. For more information on these products, visit the ATEN Keypad product page.

Application Diagram

The ATEN Keypad mounts to a wall to provide control of hardware through a controller. The setup of the Keypad to the Control System can be illustrated as follows:



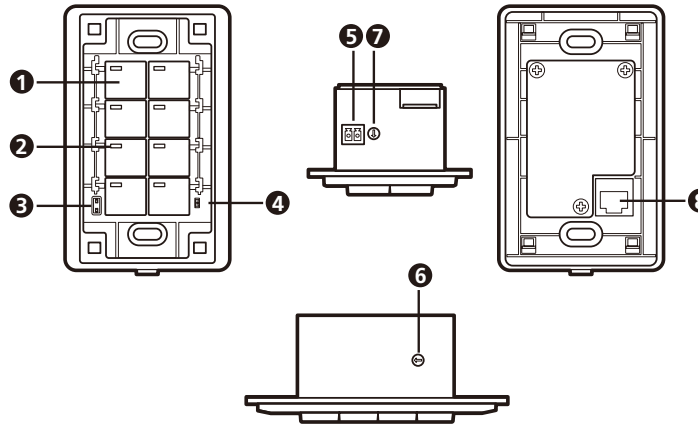
Chapter 2
Hardware Setup

This chapter provides the following information:

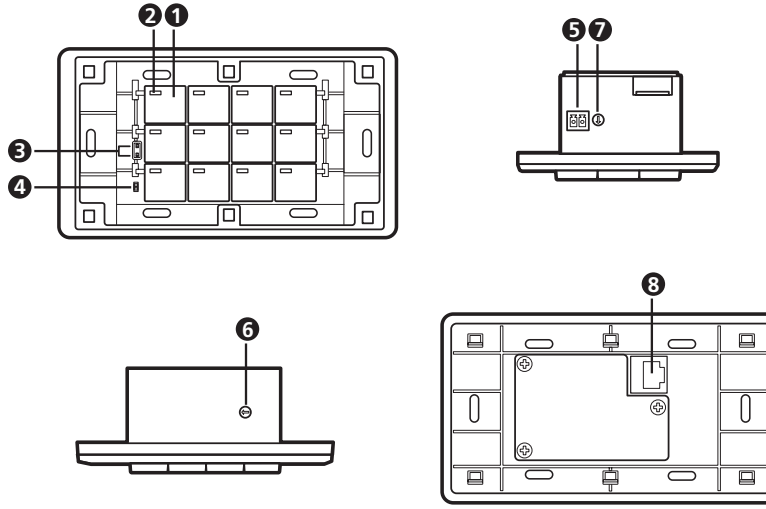
- *Hardware Overview*
  - *VK108US*
  - *VK112EU*
  - *LED Indications*
  - *Layout Examples*
  - *Button Engraving Service*
- *Installing ATEN Keypad*

Hardware Overview

VK108US



VK112EU



No.	Component	Description
1	buttons	**VK108US** The Keypad can be customized up to 14 different layouts using 4 to 8 buttons. **VK112EU** The Keypad can be customized up to 12 different layouts using 6 to 12 buttons.
2	button LEDs	Indicate function and Keypad statuses. For detailed information, see *LED Indications*, page 5.
3	system LED indicators	◆ LAN: lights green to indicate that the Keypad is connected to LAN. ◆ Link: lights green to indicate that the Keypad is connected to the assigned controller.
4	reset pushbutton	Press to reset the Keypad to its default network settings.
5	DC power	Plug a power adapter into this DC power input.
6	keypad ID switch	Sets an ID to the Keypad (1~8).
7	controller ID switch	Sets the ID of the controller (1 ~ 16) to which the Keypad connects.

No.	Component	Description
8	LAN port	◆ Connects the Keypad to LAN ◆ Supplies power (PoE) if a power sourcing equipment is installed.

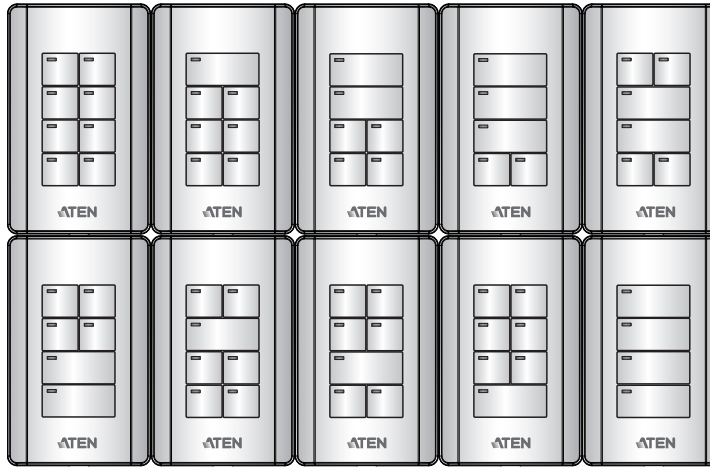
LED Indications

Refer to the table below for Keypad status based on different button LEDs indications.

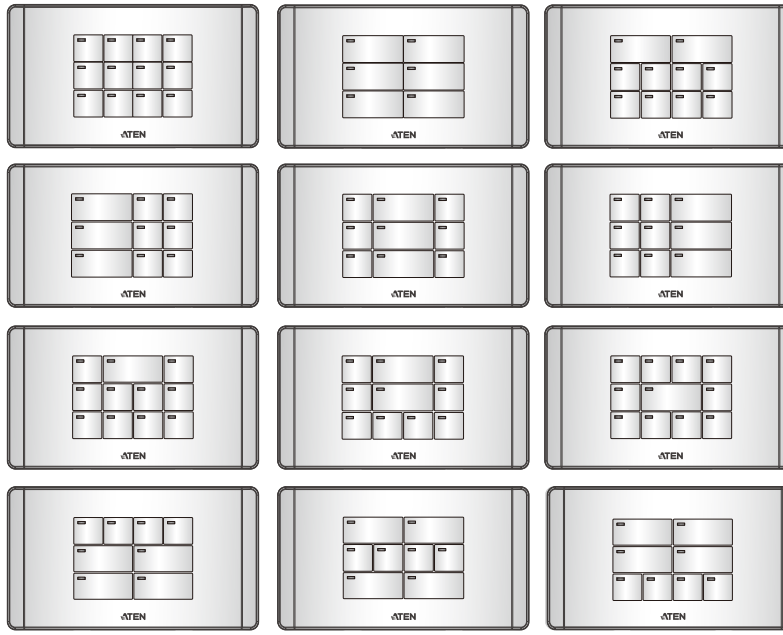
Keypad Button	LED Activity	Keypad Status
a button LED	lights orange	The Keypad is powered on and the button is currently off.
	lights white	The Keypad is powered on and the button is currently on.
	blinks orange and white repeatedly	The function assigned to the button is being executed.
all button LEDs	blink orange and white repeatedly	The firmware of the Control Pad is being upgraded.
	blink orange	The Keypad is disconnected from the Control Box.

Layout Examples

VK108US



VK112EU



Button Engraving Service

To have your Keypad buttons customized with text engraving, visit this page to specify the layout and text for your Keypad:
https://www.aten.com/ext_data/global_en/VK_Keypad_Engraving_Service/aten_keypad.html

Installing ATEN Keypad

- Important safety information regarding the placement of this device is provided on *Safety Instructions*, page 17. Please review it before proceeding.
- Make sure that the power to all devices connected to the installation are turned off. You must unplug the power cords of any computers that have the Keyboard Power On function.

1. Prepare the installation site.

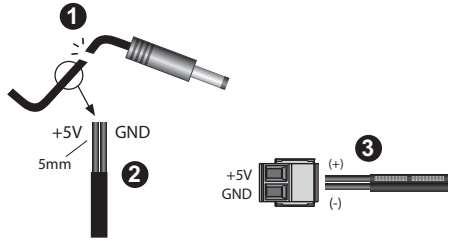
   a) Choose a location where cables are free of interference. You can install the keypad on walls, desks, and podiums.

   b) Prepare a recession on the chosen location to accommodate the keypad. You can install the keypad directly on the chosen location or through a wall box. For recommended cutout dimensions, see *CAD and Panel Cutout Diagrams*, page 21.

2. Use the keypad ID switch to set an ID for the unit, and set the controller ID switch to the ID of the controller to which you wish to connect.

   Note: One ATEN Control Box/ Control Pad can work with up to 8 Keypads.

3. Supply power and network connectivity to the keypad. Do one of the following:
   - Use an Ethernet cable to connect the keypad to a PoE switch.
   - If you do not have a power sourcing equipment, use an Ethernet cable to connect the keypad to LAN and a power adapter to supply power. Follow the steps below to install a terminal block to the power adapter.



(1) Cut the connector end of the power adapter.

(2) Strip 5 mm(0.5 cm) off the insulation cover of the power adapter cable to expose the +5V wire and the grounding wire.

(3) Insert the expose +5V wire and the grounding wire tightly into the provided 2-pin terminal block connector. Use a voltmeter to determine the polarity of an exposed wire.

The LAN LED light green to indicate that the Keypad is supplied with power and successfully linked to the network.

Note:

- Make sure to install the Keypad to the same subnet with its assigned controller.
- The Keypad adopts the default IP address **192.168.0.60** if the network switch does not support DHCP. To configure the IP address, log in the web interface using the default IP address and the default password (**password**).

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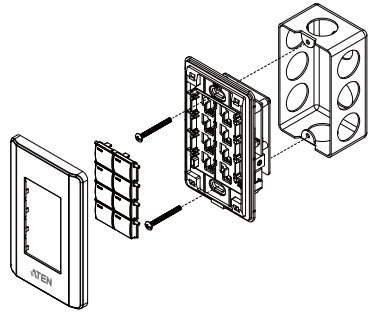
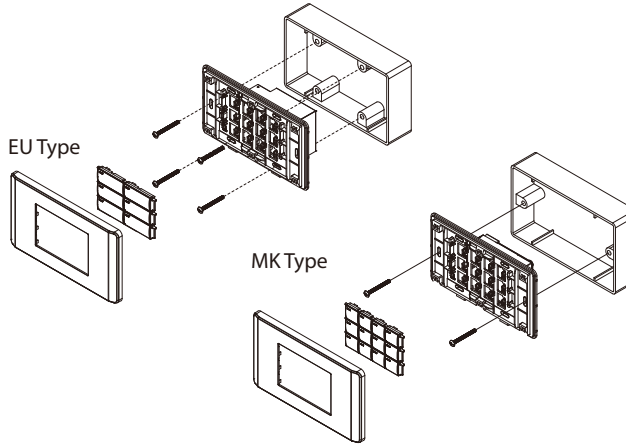
4. Secure the Keypad to the chosen surface and install the button caps and faceplate.

   a) Secure the Keypad to the chosen surface using two screws.

   VK108US



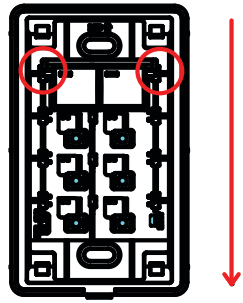
VK112EU



b) Follow the layout created in the Viewer and assemble the button caps onto the Keypad.

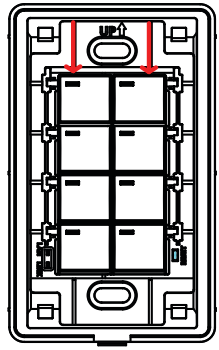
- Assemble button caps of the same row with each other. Put the button with two latches to the far right.

- From the top row, attach each row of button caps to the Keypad by pressing on the latches.



Caution: When removing button caps, place your fingers on the top of button caps and then press downwards, as illustrated below.

Pressing upwards from the bottom may cause damages to the button caps.



5. Attach the faceplate to the Keypad.

IMPORTANT: After installing the Keypad, create a control interface (Viewer) and upload the Viewer to the controller. For details, see *Design*, page 100.

Chapter 3
Web-based Configuration

The ATEN Keypad allows configuration of several system settings through its web interface, including IP address assignment, access key setup, log download, and firmware upgrade. This chapter provides an overview of these features.

- *Keypad IP Address*
  - *IP Address Assignment*
  - *Determining the Keypad IP Address*
- *Login*
- *System Settings*
  - *General*
  - *Network*
  - *System Log*
  - *Access*

Keypad IP Address

IP Address Assignment

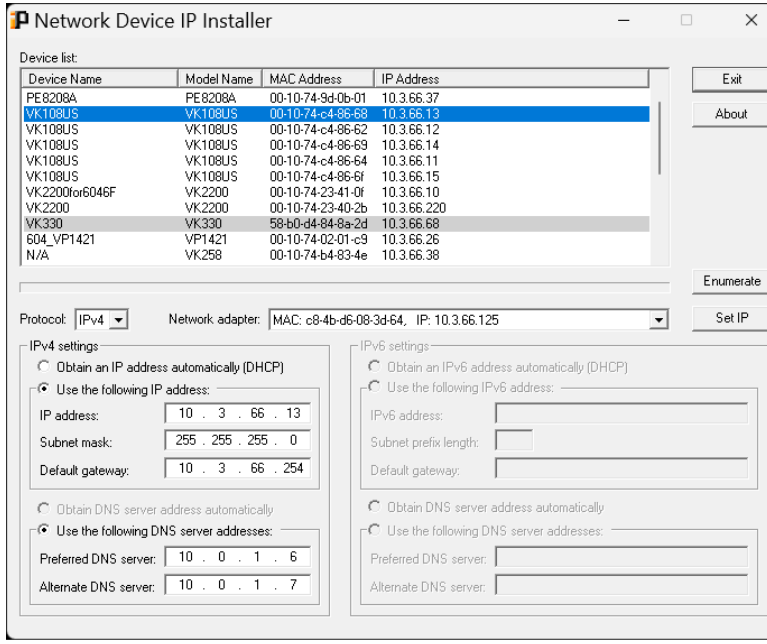
- **DHCP:** When connected to a DHCP network, the ATEN Keypad is automatically assigned with an IP address upon startup. To determine its IP address, see *Determining the Keypad IP Address*.
- **Non-DHCP:** When no dynamic IP address is assigned to the ATEN Keypad within 30 seconds after network connection, the default IP address **192.168.0.60** will be applied.

Determining the Keypad IP Address

To determine the Keypad IP address, follow the steps below to install and use an utility software, IP Installer.

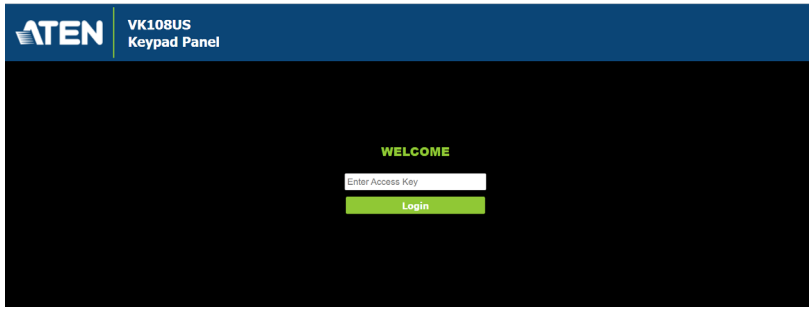
1. Using a Windows PC, go to the Keypad product web page.

2. Go to the **Support and Downloads** tab.
3. From the Software & Drivers table, download the **IP Installer** zip file. Then extract and execute **IPInstaller.exe**. A window similar to the one below appears.
4. Make sure the proper network adapter is selected and click **Enumerate** to search for and display your Keypad within the *Device List*.



Login

To access the GUI, type the IP address of the Keypad into the address bar of any browser. If a Security Alert dialog box appears, accept the certificate — it can be trusted. The Welcome screen appears:

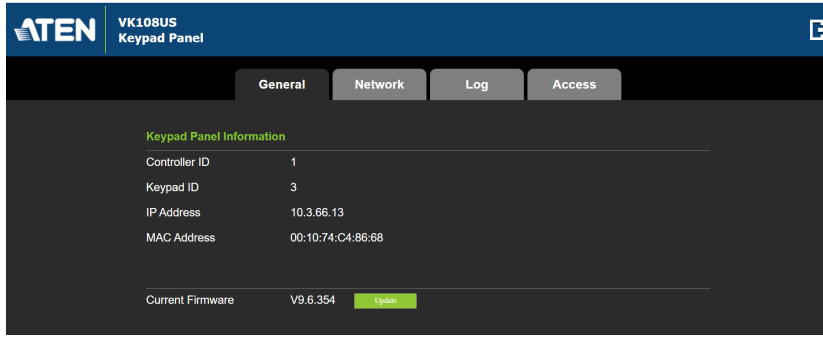


- The default access key is: **password**
- A valid password should contain 30 or fewer alphanumeric characters.

System Settings

General

The General tab indicates firmware version and provides network and identification information pertaining to the Keypad. See the table below for details.

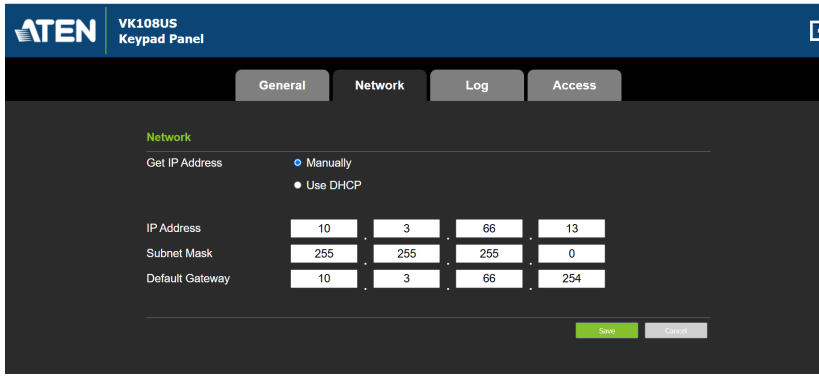


Setting	Descriptions
Controller ID	Identifies ID number of the connected ATEN controller. This ID is set on the rear panel of the controller.
Keypad ID	Identifies the ID number of the Keypad. This ID is set on the Keypad using its keypad ID switch.
IP Address	Indicates the Keypad's IP address.
MAC Address	Indicates the Keypad's MAC address.
Current Firmware	◆ Displays the current firmware version of the Keypad. ◆ To upgrade/downgrade the firmware, click **Update**.

Network

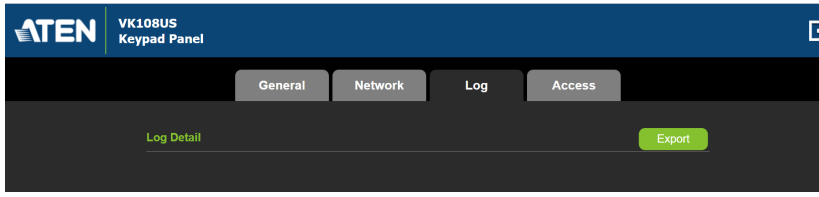
The Network tab allows you to view and configure the controller's network settings. Select **Manually (DHCP off)** to set a static *IP Address*, *Subnet Mask*, and *Default Gateway*, or **Use DHCP** to have the server assign an IP address to the controller.

Note: Make sure to set the ATEN controller's IP address and Default Gateway to the same subnet.



System Log

The ATEN Keypad keeps logs its connection status and setting changes. Click **Export** to download the logs.

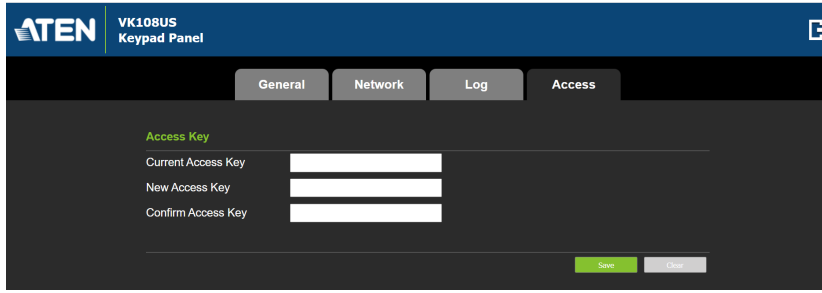


Access

Use the access page to configure the Keypad's access key—password for web interface login.

- The default access key is **password**.
- A **valid password** should only contain **upper-case alphabets, lower-case alphabets, and/or numerals**.

Note: For security reasons, you will be prompted to modify the access key with your first web interface login.



Appendix

Safety Instructions

General

- Read all of these instructions. Save them for future reference.
- Follow all warnings and instructions marked on the device.
- This product is for indoor use only.
- Do not place the device on any unstable surface (cart, stand, table, etc.). If the device falls, serious damage will result.
- Caution: Risk of explosion if the battery is replaced by an incorrect type. Always dispose of used batteries according to the proper instructions.
- Do not use the device near water.
- Do not place the device near, or over, radiators or heat registers.
- The device cabinet is provided with slots and openings to allow for adequate ventilation. To ensure reliable operation, and to protect against overheating, these openings must never be blocked or covered.
- The device should never be placed on a soft surface (bed, sofa, rug, etc.) as this will block its ventilation openings. Likewise, the device should not be placed in a built in enclosure unless adequate ventilation has been provided.
- Never spill liquid of any kind on the device.
- Unplug the device from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
- The device should be operated from the type of power source indicated on the marking label. If you are not sure of the type of power available, consult your dealer or local power company.
- To prevent damage to your installation it is important that all devices are properly grounded.
- Do not allow anything to rest on the power cord or cables. Route the power cord and cables so that they cannot be stepped on or tripped over.
- Position system cables and power cables carefully; Be sure that nothing rests on any cables.

- Never push objects of any kind into or through cabinet slots. They may touch dangerous voltage points or short out parts resulting in a risk of fire or electrical shock.
- Do not attempt to service the device yourself. Refer all servicing to qualified service personnel.
- If the following conditions occur, unplug the device from the wall outlet and bring it to qualified service personnel for repair.
  - The power cord or plug has become damaged or frayed.
  - Liquid has been spilled into the device.
  - The device has been exposed to rain or water.
  - The device has been dropped, or the cabinet has been damaged.
  - The device exhibits a distinct change in performance, indicating a need for service.
  - The device does not operate normally when the operating instructions are followed.
- Only adjust those controls that are covered in the operating instructions. Improper adjustment of other controls may result in damage that will require extensive work by a qualified technician to repair.
- Avoid circuit overloads. Before connecting equipment to a circuit, know the power supply’s limit and never exceed it. Always review the electrical specifications of a circuit to ensure that you are not creating a dangerous condition or that one doesn’t already exist. Circuit overloads can cause a fire and destroy equipment.

Technical Support

International

- For online technical support – including troubleshooting, documentation, and software updates: **http://eservice.aten.com**
- For telephone support, see *Telephone Support*, page iv:

North America

Email Support		support@aten-usa.com
Online Technical Support	Troubleshooting Documentation Software Updates	https://eservice.aten.com
Telephone Support		1-888-999-ATEN ext 4988

When you contact us, please have the following information ready beforehand:

- Product model number, serial number, and date of purchase.
- Your computer configuration, including operating system, revision level, expansion cards, and software.
- Any error messages displayed at the time the error occurred.
- The sequence of operations that led up to the error.
- Any other information you feel may be of help.

Specifications

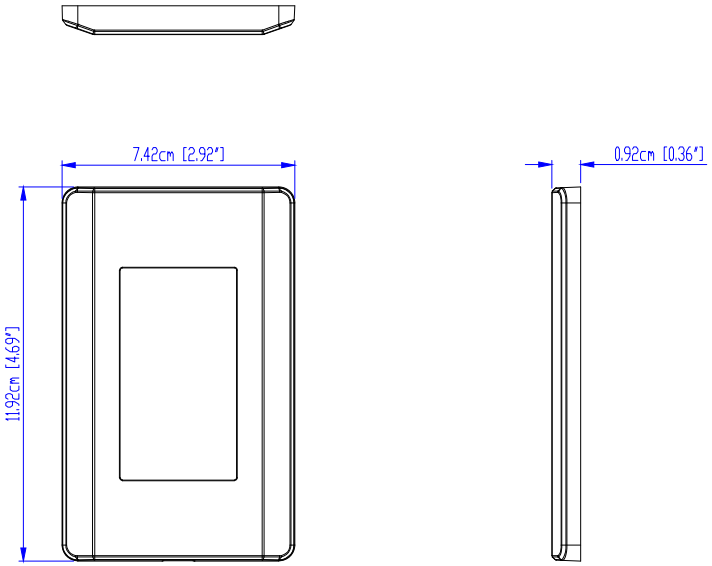
	VK108US	VK112EU
Interface		
Keypad Layout	Up to 14 layout variations using 4 ~ 8 buttons	Up to 125 layout variations using 6 ~ 12 buttons
Ethernet	• 1 x RJ-45 Female, 10/100Base-T • Supported Protocol: ARP, ICMP, TCP/IP, DHCP, HTTPS • DHCP-enabled. Default IP settings (IP address **192.168.0.60**, subnet mask **255.255.255.0**) will be automatically applied if no IP address is assigned within 30 seconds of connecting to the network.	
Switches & Buttons		
Controller ID Switch	1 x 16-segment switch	
Keypad ID Switch	1 x 8-segment switch	
Reset Button		
1 x semi-recessed pushbutton		
Power		
Power Consumption	DC 5V : 1.25W : 6 BTU/h PoE : 1.58W : 7BTU/h	DC 5V : 1.25W : 6 BTU/h PoE : 1.56W : 7BTU/h

Note:

- The measurement in Watts indicates the typical power consumption of the device with no external loading.
- The measurement in BTU/h indicates the power consumption of the device when it is fully loaded.

Environmental		
Operating Temperature	0 – 50 °C	
Storage Temperature	–20 – 60 °C	
Humidity	0 - 80% RH, Non-Condensing	
Physical Properties		
Housing	Plastic	
Weight	0.13 kg (0.29 lb)	0.17 kg (0.37 lb)
Device Dimensions	11.63 x 7.06 x 4.84 cm (4.58 x 2.78 x 1.91 in)	8.32 x 14.76 x 4.80 cm (3.28 x 5.81 x 1.89 in)
Faceplate Dimensions	11.92 x 7.42 x 0.92 cm (4.69 x 2.92 x 0.36 in)	8.62 x 15.12 x 0.92 cm (3.39 x 5.95 x 0.36 in)

CAD Drawings



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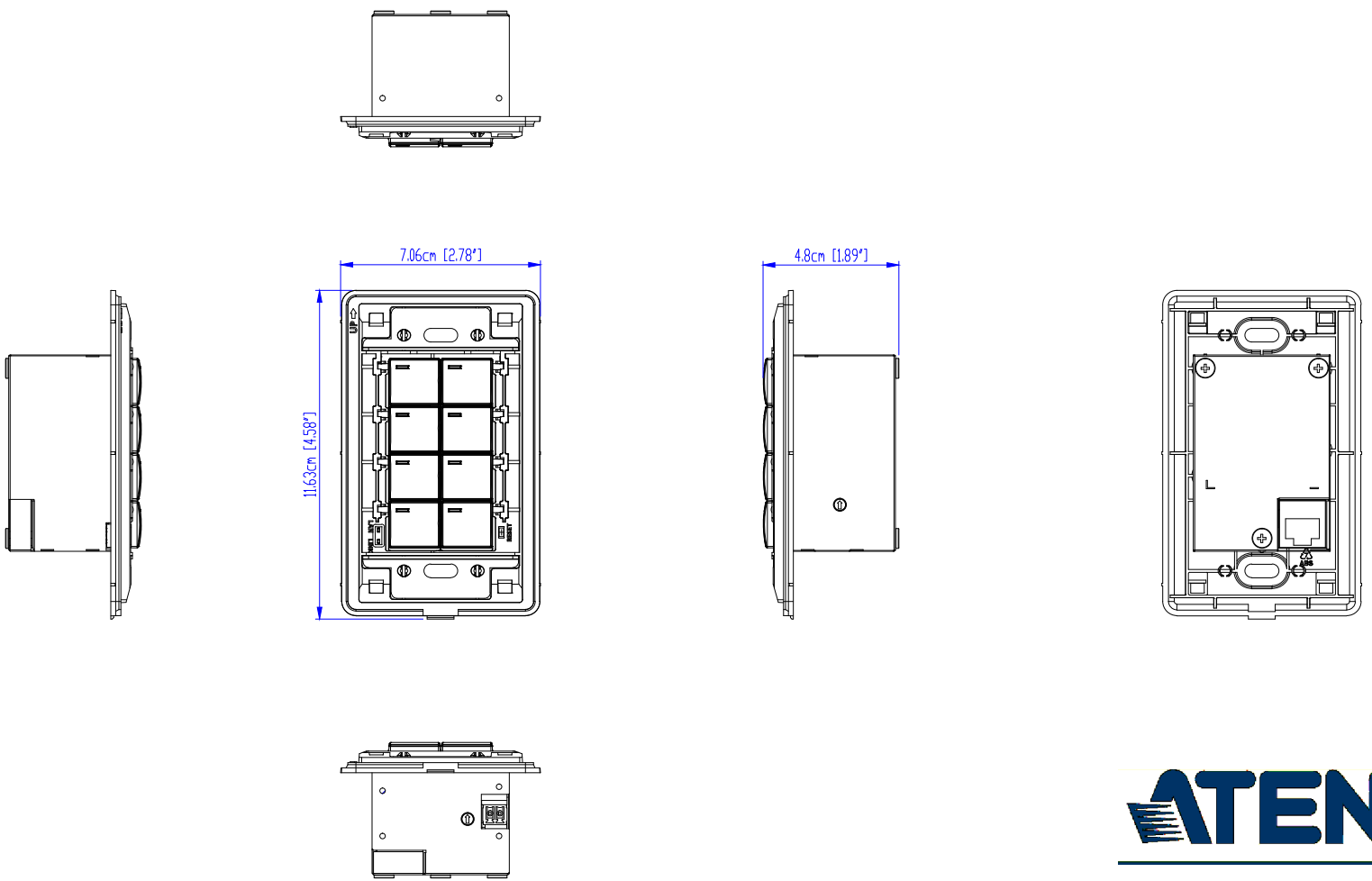
VK108US



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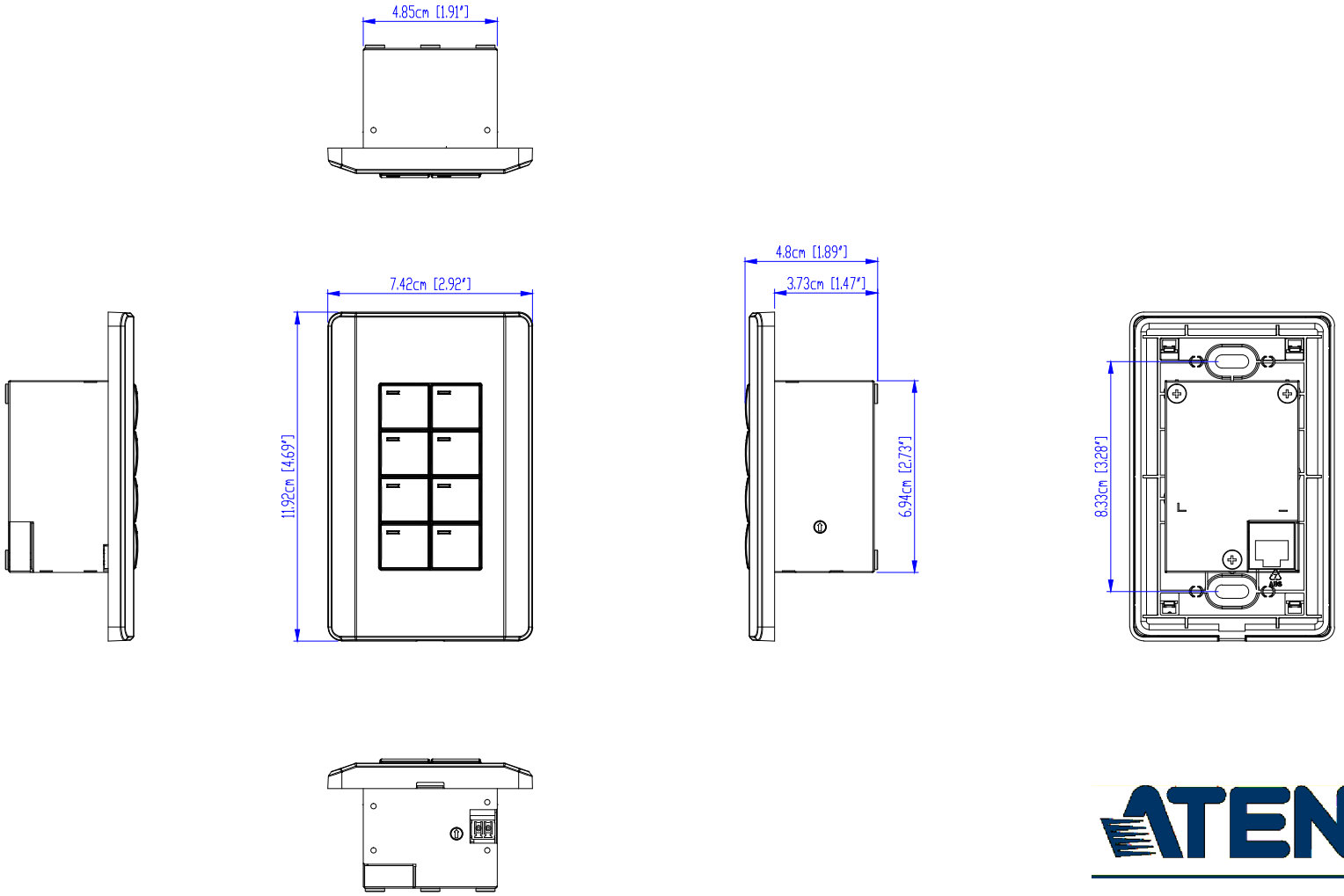
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7.42cm [2.92"]
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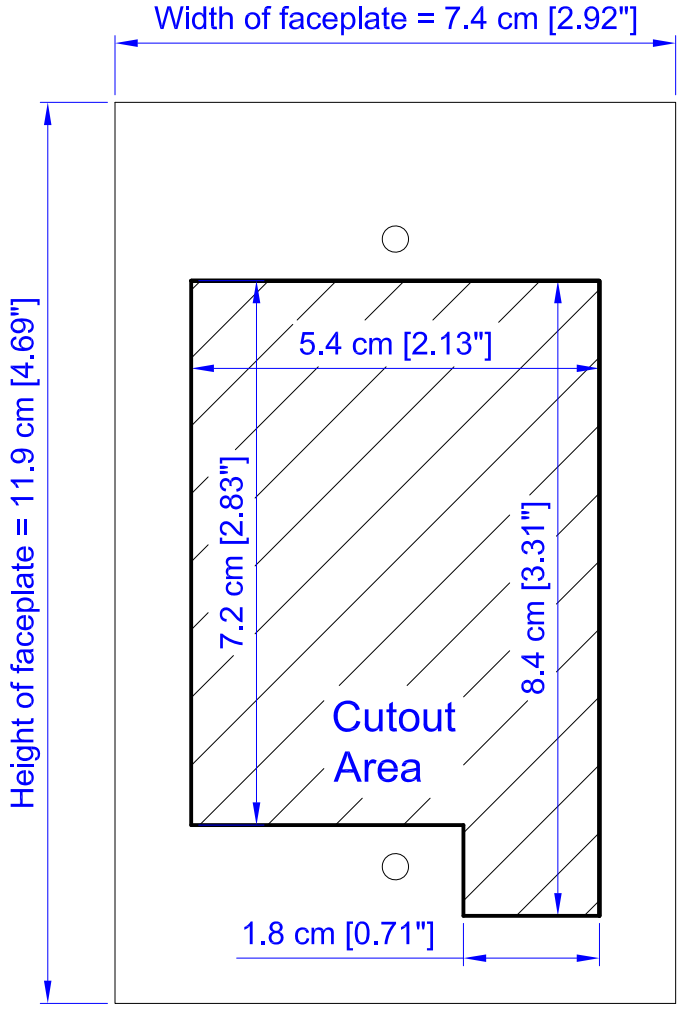
8.33cm [3.28"]

VK108US

Panel Mount Cutout



Note: ATEN recommends a 1-gang wall box with a depth of at least 5 cm (1.97 inches) to accommodate the connectors and cables.

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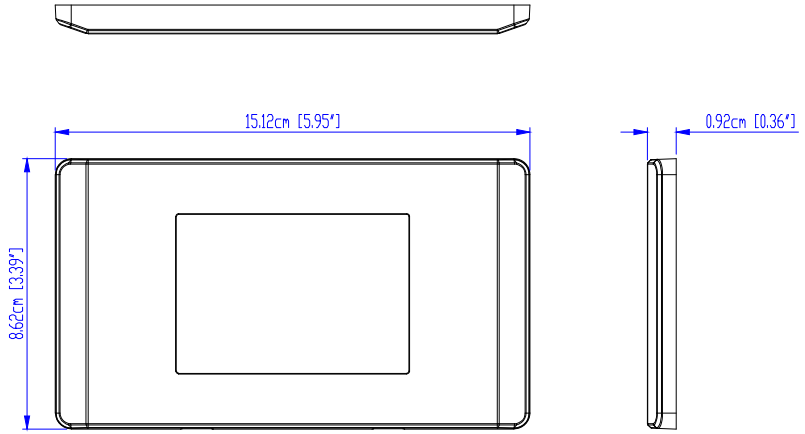
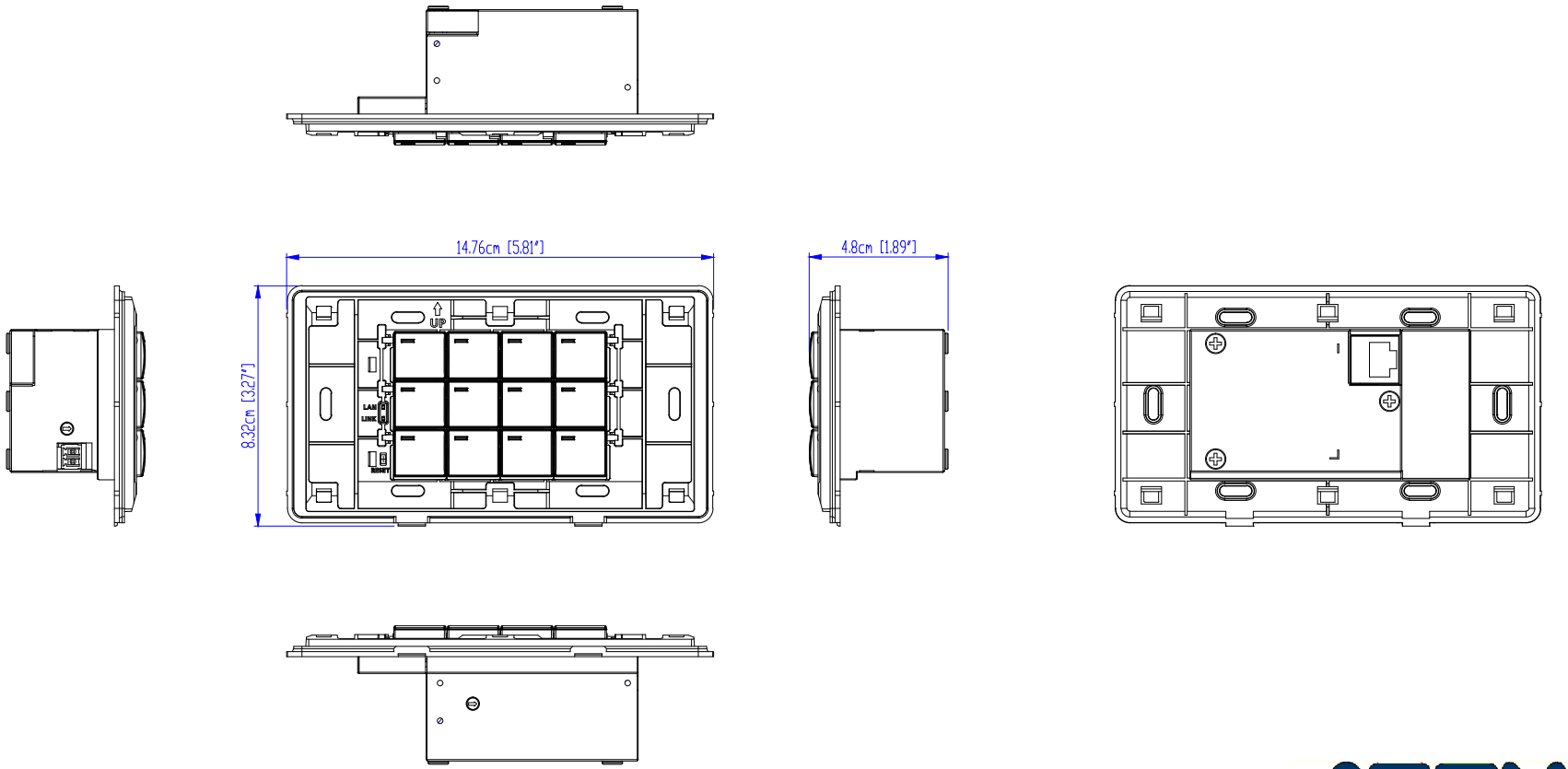
VK108US

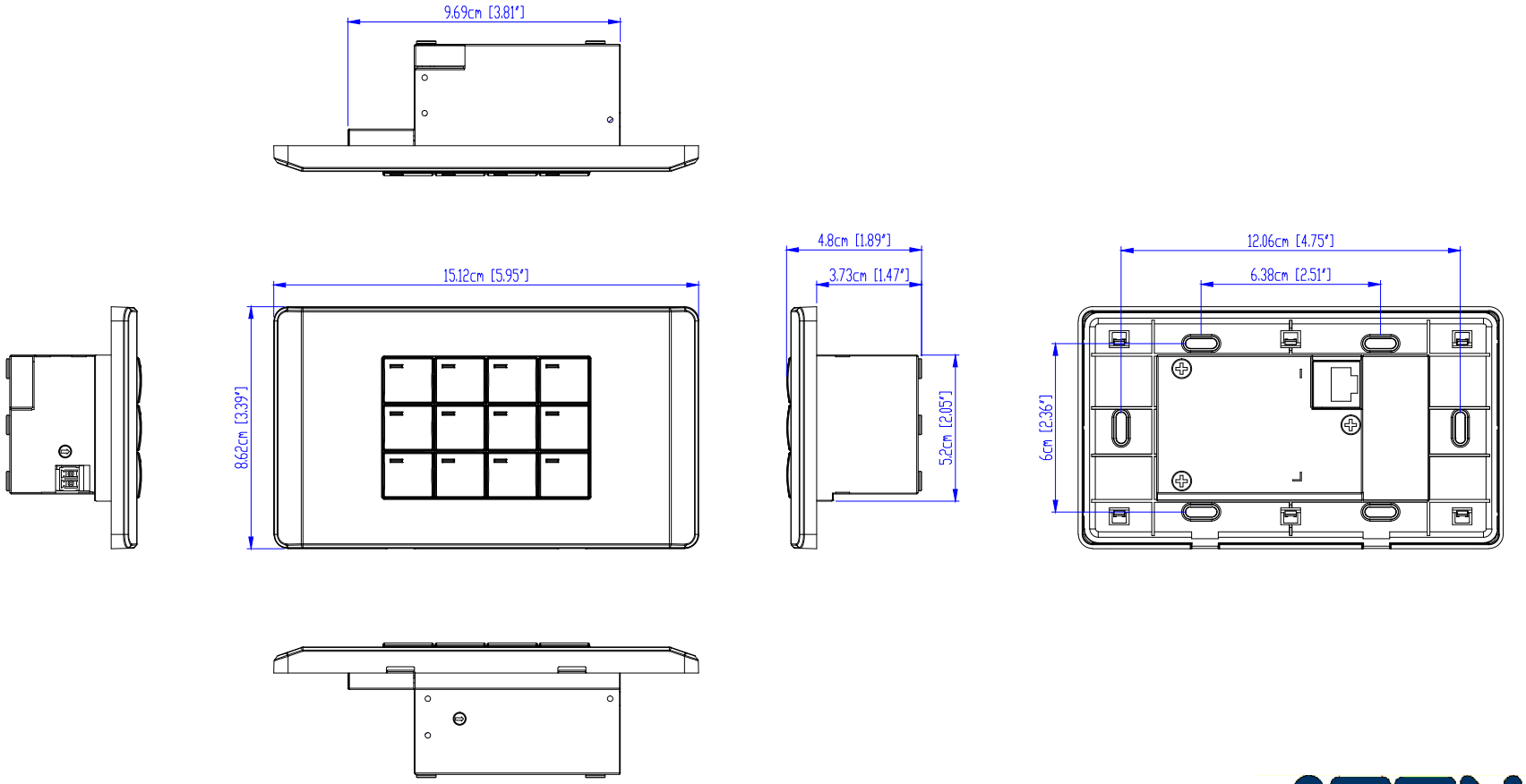
CAD Drawings



VK112EU



VK112EU



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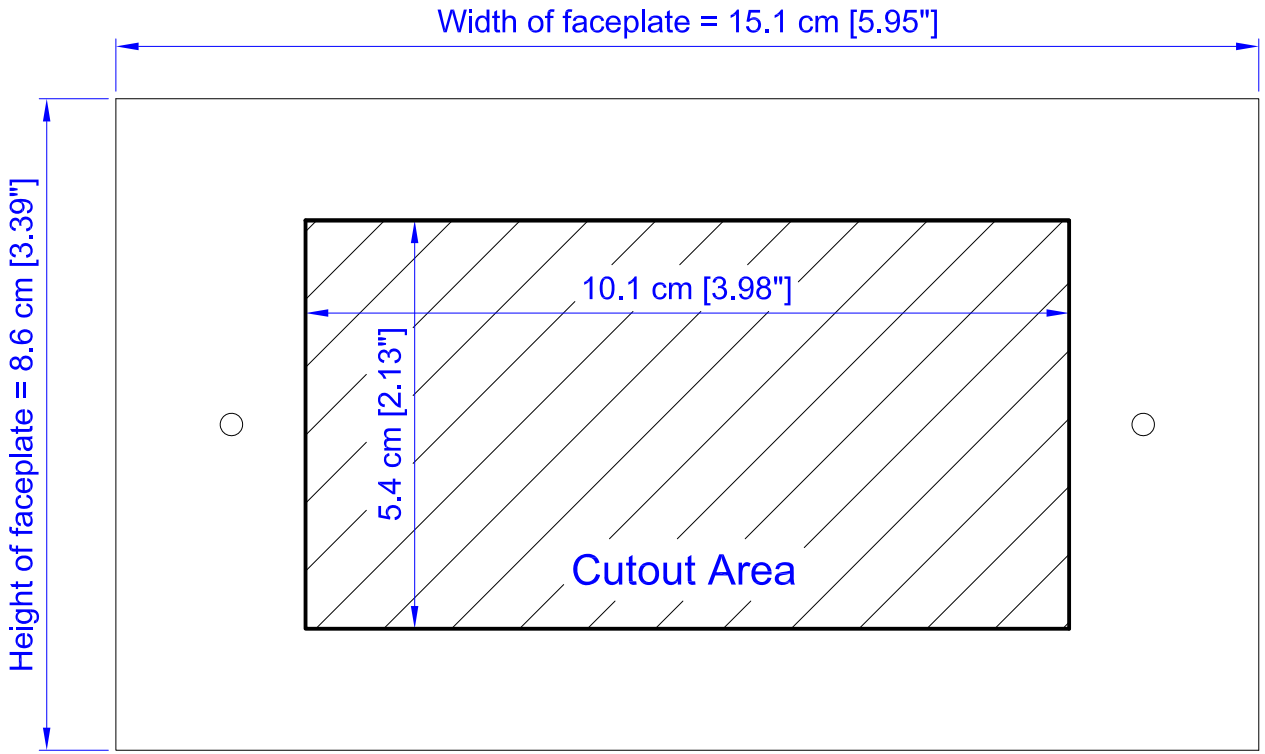
VK112EU

Panel Mount Cutout



Note: ATEN recommends a 2-gang wall box with a depth of at least 5 cm (1.97 inches) to accommodate the connectors and cables.

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VK112EU

ATEN Standard Warranty Policy

The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/ regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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