

enado mini

ENA-MINI-010

WyreStorm Enado™ mini IP Controller

Instruction Manual

Thank you for choosing this WyreStorm product.
Please read these instructions carefully before installing to avoid complications later.

Safety Precautions

IMPORTANT! Safety Information

Safety Classifications

Note:	Provides special information for installing, configuring, and operating the equipment.
⚠ IMPORTANT!	Provides special information that is critical to installing, configuring, and operating the equipment.
⚠ CAUTION!	Provides special information on avoiding situations that may cause damage to equipment.
⚠ WARNING!	Provides special information on avoiding situations that may cause physical danger to the installer, end user, etc.
⚠ ELECTRIC SHOCK!	The source power poses an electric shock hazard that has the potential to cause serious injury to installers and end users.
⚠ ELECTRICAL DISCONNECT:	The source power outlet and power supply input power sockets should be easily accessible to disconnect power in the event of an electrical hazard or malfunction.
⚠ WEIGHT INJURY!	Installing some of the equipment requires two installers to ensure safe handling during installation. Failure to use two installers may result in injury.

Safety Statements

1. Read these instructions in their entirety and retain a copy for later reference.
2. Follow all instructions and heed all warnings.
3. Do not expose this apparatus to rain, moisture, sprays, drips or splashes and ensure that no objects containing liquids are placed on the apparatus, including cups, glasses and vases.
4. Do not place this unit in a confined space such as enclosed shelving, cabinets or bookshelves. Ensure the unit is adequately ventilated.
5. To prevent the risk of electric shock or fire hazard due to overheating, do not cover the unit or obstruct ventilation openings with material, newspaper, cardboard or anything that may restrict airflow into the unit.
6. Do not install near external heat sources such as radiators, heat registers, boilers or any device that produces heat such as amplifiers or computers and do not place near sources of naked flame.
7. Unplug apparatus from power supply during lightning storms or when unused for long periods of time.
8. Protect the power cable from being walked on, pinched or restricted in any way, especially at plug connections.
9. Only use attachments/accessories specified by the manufacturer.
10. Units contain non-serviceable parts - Refer all servicing to qualified service personnel.

⚠ IMPORTANT! Do Not Hot swap HDMI plugs or HDBaseT connectors - Please insert and extract cables carefully with the power SWITCHED OFF. Power is passed along transmissions so connecting and disconnecting cables while powered can result in damage to circuitry or possible injury.

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Introduction

Enado Mini is a small form factor IP-only control system easily installed in any location; essentially a small computer system housing the full Enado software suite that acts as a powerful web server user interface for control of virtually any device with Ethernet connectivity by any device with a web browser.

As with Enado, the IP controller can sit anywhere on the network and control any IP device on the network with the web server-based control software eliminating the need for Apps, PC software windows drivers or control device configuration with no additional costs for Apps upgrades, updates or licenses, whilst delivering an App-like installer/user experience with systems configured and controlled from literally anywhere in the world with a web-capable device.

In fact, it's so easy to configure a new control device such as a smartphone or tablet with Enado, the user need only to scan a QR code and bookmark the link.

Although it offers many of the same features as the full size 1U Enado controller, including the same functionality of the Enado software itself, Enado Mini is streamlined by removing IR, RS232 and relay/cc connectivity, which help keep costs low enough so they have minimal impact on project budget. However, it's smart enough to allow connection of these outputs using iTach and Flex devices from Global Cache.

Enado Mini offers IP control of both JPEG2000 and H.264 100 and 200 series NetworkHD products as well as any connected WyreStorm matrix switchers, AV Receivers, Blu-ray players, set-top boxes, media players like AppleTV, Roku, Sky Now, XBMC and Kaleidescape as well as a growing number of Smart TVs, all over IP with no additional hardware required.

It's also just as versatile as its bigger Enado sibling with full compatibility with the huge Enado online code library and custom control templates for these connected devices, with WyreStorm project examples and popular device templates built in for unlimited control of all WyreStorm distribution devices over IP while controlling all other sources with Global Cache for quick, simple configuration – all with just two cables to one tiny box.

For further information on this product and other WyreStorm ranges, visit our website or download our latest product guide at **wyrestorm.com**

Features

- Provides an intuitive, customizable user interface to control WyreStorm devices and other AV components
- Web server-based design allows for easy setup, operation, maintenance and management of the system
- Highly scalable to allow for control of any AV component (WyreStorm or other manufacturer) over the network
- Multi-platform ie. iOS, Android, Macs and PC control with an unlimited number of user control devices without any licensing costs
- Wizard-based setup for all connected displays and sources allows for quick setup and template-driven integration with WyreStorm products
- Out of the box, cross-platform control solution compatible with any Internet-enabled product from any manufacturer, with any browser, any operating system and screen size
- Two-cable connection using just standard Ethernet cable and mains power
- Enables control of an unlimited number of user devices with no license fees and a one-time, low cost Single Update Technology ensures A/V systems are up to date, instantly updating every connected device at the touch of a button
- No programming software and elegant, pre-configured templates makes integration with WyreStorm (and other) products simple
- Add Enado to any WyreStorm matrix for quick, straight forward integration and control
- Creates a Total WyreStorm Distribution & Control Solution with full end-to-end audio, video and control via a single cable per zone
- Remotely and securely access, configure, add to or control the A/V system from anywhere and through any Internet browser, from anywhere
- Browser-based, intuitive user interface and controller enables any Internet-enabled device to become an AV system control device
- Bring Your Own Device - compatible with any platform on any web-enabled device from smart-phones to tablets to computers. Get QR code and bookmarked device setup that's effortlessly quick, simple and client-friendly
- Instant Updates - Server-based design eliminates the need for apps, drivers and control device configuration or fees for updates, licences or upgrades. System updates are instantaneous and free for a control solution that's always on and always up to date
- Wizard-based, template-driven set up - Integrates seamlessly with step-by-step wizard-based configuration and 'what you see is what you get' interface editing. Initial setup of the system is made even easier with an expansive library of online templates
- 2 year warranty

For further information, **wyrestorm.com**

In the Box

WyreStorm ENA-MINI-010 comprising of:
1 x ENA-MINI-010 Main unit
1 x 5V/2A Power supply
5 x IP address labels
1 x Quickstart guide (also downloadable from the products webpage)

NOTE: Full product instructions included internally within the Enado software

Specifications

Video and Audio	
I/O Connections	1 x LAN
Ethernet	10/100

Power	
Power Supply	5V DC 2A, 5.5mm
Power Consumption	1.4 Watts

Environmental	
Operating Temperature	32°F to 95°F (0°C to 35°C) 10% to 90%, non-condensing
Storage Temperature	-4°F to 140°F (-20°C to 70°C) 10% to 90%, non-condensing
ESD Protection	±8kV (air-gap discharge), ±4kV (contact discharge)
Surge Protection	Voltage: ±1000 V

Control	
Control Method	TCP; UDP; Telnet; HTTP GET. HTTP POST, WAKE-ON-LAN

General	
System Requirements	Industry standard CAT5e/6 cable
LED Indication	Power LED, Active LED
Dimensions (WxHxD)	141mm x 26mm x 115mm / 5.6” x 1” x 4.5”
Weight (Kg)	0.42kg / 0.92lbs (without accessories)
Certification	CE, FCC, RoH

Panel Description

Front

1 Power LED indicates Power status.
- **Solid:** Power being received, unit functioning correctly
- **Off:** No power received. Check connections.

2 Active LED indicates Software link status.
- **Solid:** Software has loaded and unit functioning correctly
- **Off:** Software has not loaded

3 IP Address Label Holder



Rear

1 LAN Input

2 Service Port - for WyreStorm Service use only

3 5V Power Supply Input - Please only use included power supply



Before You Start

Although any browser can be used by the end user, WyreStorm recommends Chrome if using a Windows PC and Safari for Mac OS X for configuration. Please ensure you have the latest version of your browser on all devices that are used with Enado.

Enado operation is only as good as the Wi-Fi signal of the control device - WyreStorm recommends the use of professional Wi-Fi Routers and Access points - not those supplied free by Internet Service Providers (ISP).

The RS232 port is for service only - Enado Mini does not have any on board RS232 support. To add support for IR/RS232/CC devices please use Global Cache iTach & iTach Flex devices.

Once you have published your project - Be sure to print the QR code generated by Enado so that your customers can set up new control devices themselves.

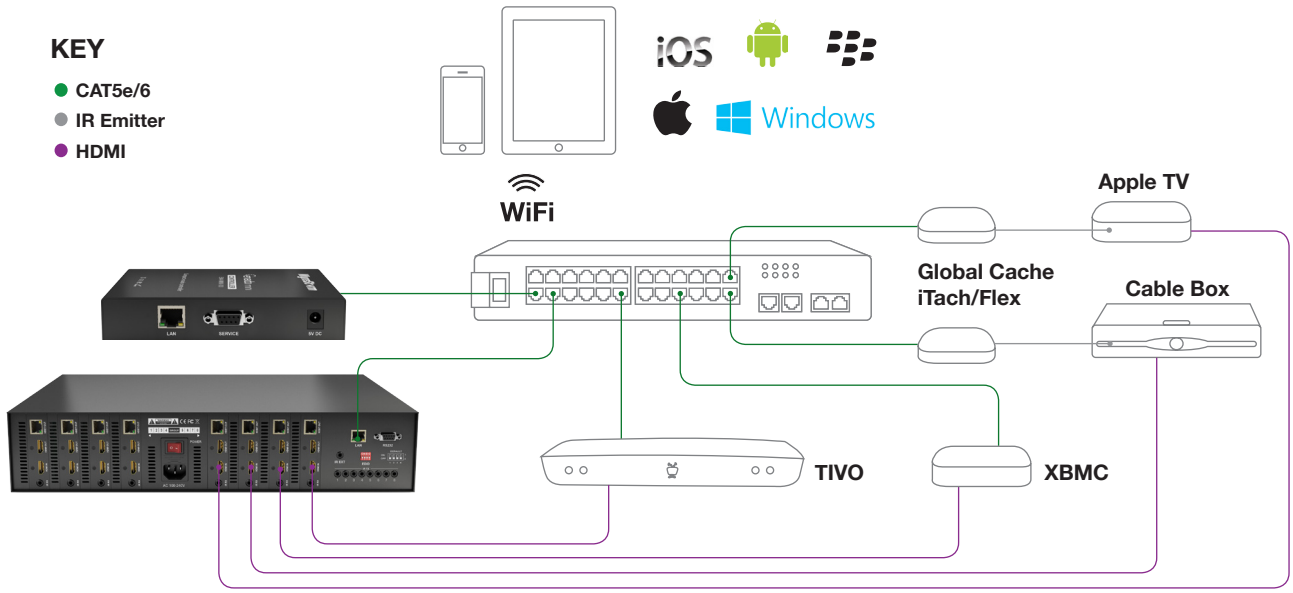
Be sure to look for additional information on Enado Mini at wyrestorm.com.

Typical Application

Residential Application Example

In this example the Enado Mini controller is centrally racked with the source components and WyreStorm MX-0808-PP-POH Matrix.

IR only devices, such as Apple TV and cable and satellite STB's are controlled via Global Cache iTach Flex boxes, whilst IP devices are controlled by IP over the network.



! IR eyes should be attached with the adhesive backing directly over the infrared receiving area of sources, ensuring there is a clear line-of-sight with the remote control handset used to control. Location of the IR eye may need to be adjusted later to achieve best IR performance.

NOTE: Infrared windows can be seen by shining a flashlight onto the front of the device – the IR sensor will likely appear as a small round diode behind the fascia.

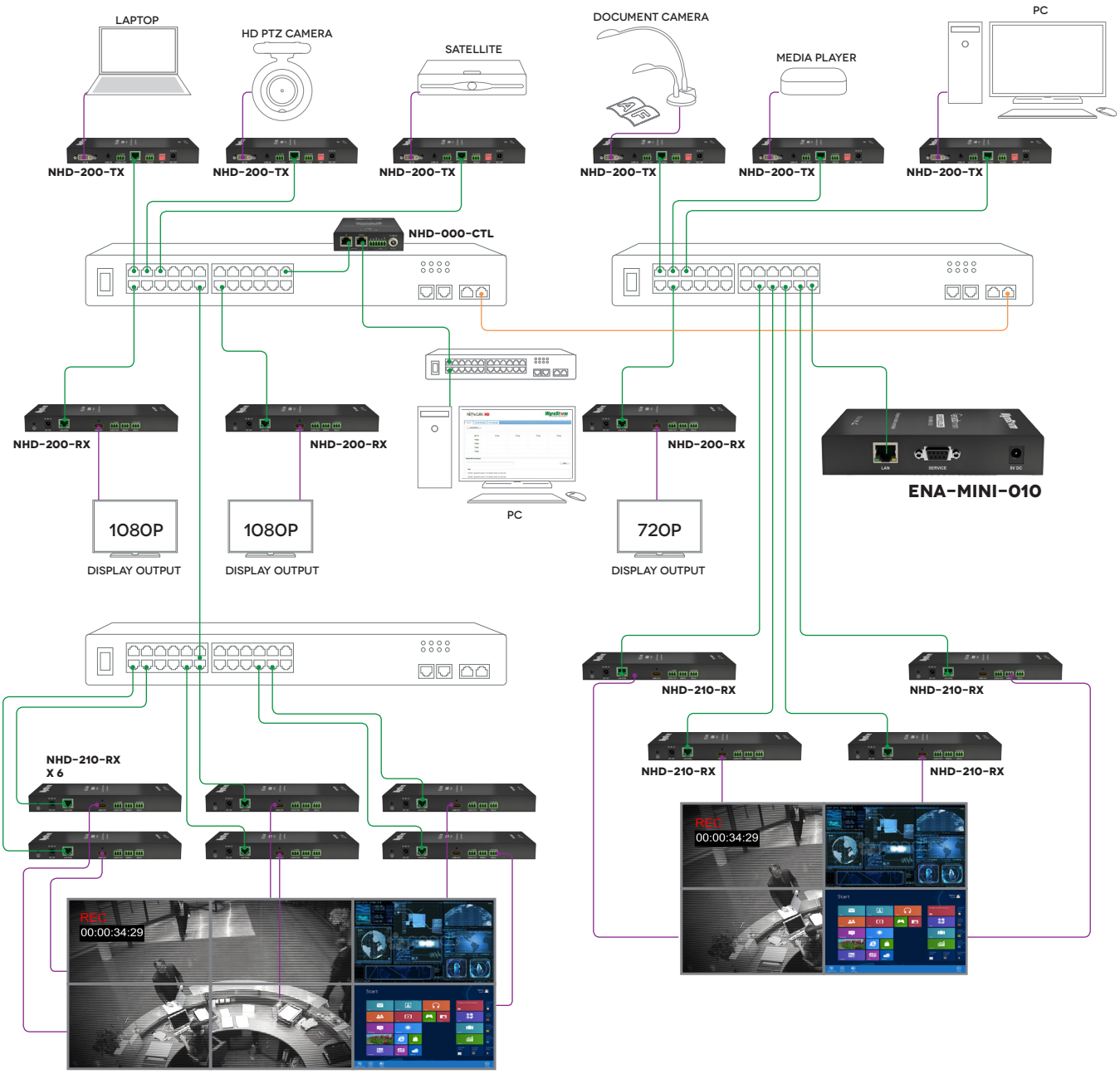
Connection

! Do not connect the Enado Controller to the mains until you have made all the following connections.

! The quality of cable and RJ45 termination is essential for successful device communication. Poor cable and terminations lead to intermittent performance and longer install times.

Commercial Application and expanded distribution via NHD-200 Series

In this example Enado Mini is used to control NetworkHD switching and video-walls. All devices are controlled via IP or using RS232 or CEC via NetworkHD 200.



Connect a good quality, well-terminated Cat5e/6 cable with RJ45 connectors wired to the 568B standard at both ends to the Enado Ethernet switch and the router or primary network switch. Ensure the cable is tested and measures less than 100m/328ft, with all connectors pushed securely to ports and supported by connector strain relief clips to prevent them from becoming loose.

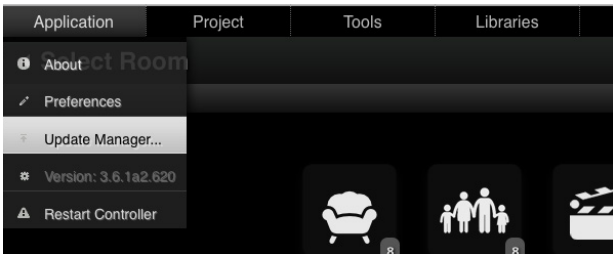
Basic Operation

i. Before Installation

For initial connection and configuration it is essential that Enado Mini is connected to the internet in order to download the latest software, control templates and device codes.

Without internet access or a previously created configuration file - you will not be able to program Enado. Ensure you update to the latest software version as soon as possible using the Update Manager located in the Application menu.

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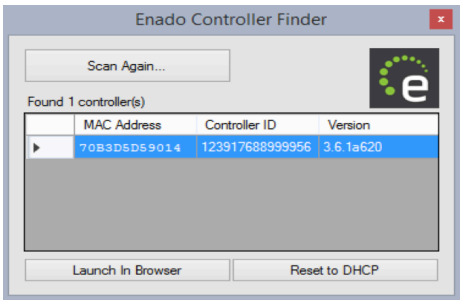
ii. Setup and Operation

1. Connect the provided Ethernet cable from a LAN/router/network switch to the LAN port of the unit.

2. Connect the 5V power supply. Enado Mini will power on as soon as the power is connected – Please ensure the power LED is lit on the front panel.

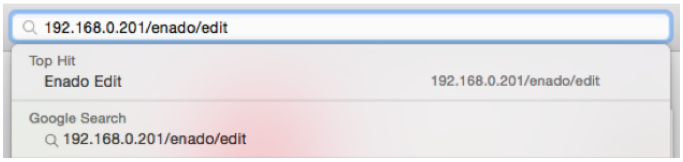
3. By default Enado Mini is set to obtain an IP address via DHCP - this requires a router with a DHCP server. During this boot-up process the ACTIVE LED will blink.

4. Once the system has finished booting (illustrated by a static ACTIVE LED), use an IP address scanner application or the Enado Network Discovery Tool (Windows only) to locate the IP address of Enado.



NOTE: Enado Network Discovery Tool is available in the downloads section of the Enado Mini product page at wyrestorm.com

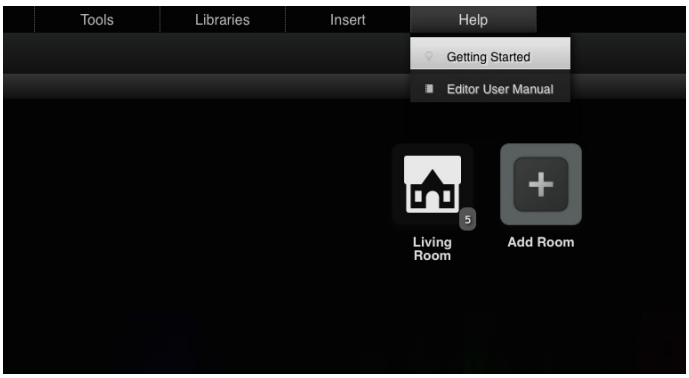
5. Type the IP address of the Enado Mini into your web browser.



NOTE: If setting a static IP address use the white label included to note Enado Mini's IP address and attach to the label holder on the chassis for quick reference.

6. Once the Enado web UI appears, follow the link to the Enado Configuration Interface - or if you do not see a link, simply type IPAddress/enado/edit into your browser navigation bar.

7. Use the Get Started Wizard & Editor User Manual, both located in the Help menu.



iii. Introduction to the Enado Interface

On the Enado system, user interfaces (UIs) for both control and configuration are accessed through compatible standard web browsers. The UI that an end user sees to control the building is referred to as the 'Control UI' (or 'Live UI') in an Enado system. The user interface that the installer or system designer uses to configure/design a system is the 'Configuration UI'.

Both UIs are generated by the Enado controller.

There are different formats of Control UI for use on different sizes / types of control device. These include:

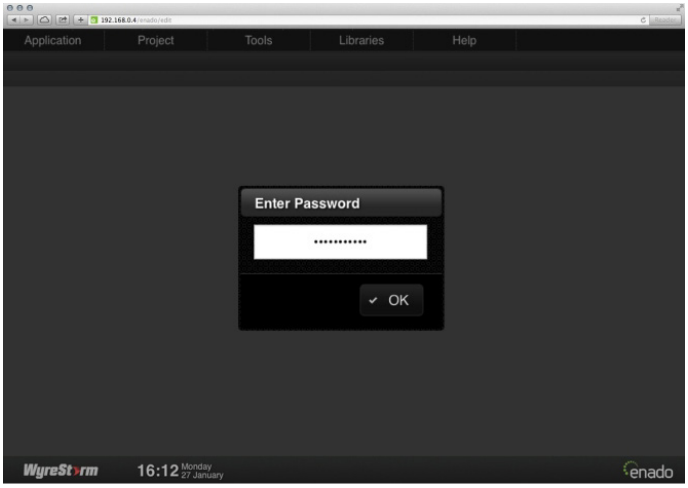
- The 'Standard UI', suitable for use on desktop computers, tablet computers, TVs, etc. with screen sizes greater than 5 inch/12.7cm. This is designed for viewing in landscape orientation only.
- The 'Compact UI', suitable for use on smart phones, small browsing devices/media players, etc. with screens under 5 inch/12.7cm. This is designed for viewing primarily in portrait format but can be viewed in landscape format, too.

Both 'Control' and the 'Configuration' UIs are designed to be operated using both a mouse and via a touch screen.

The Configuration Editor interface is designed for back-end and front end appearance to be replicated - so whatever the installer creates/edits in the back-end will be reflected in what the end user will see on the Control UI.

Both the Standard and Compact UIs use the same configuration data. The layout of the Standard UI can be freely designed using the configuration editor. The layout of the Compact UI layout is automatically generated from the data used in the Standard UI configuration with some Compact UI-specific configuration options. This allows quick and easy editing and creation of the different screen size formats without editing each format individually.

For more detailed information about how to use the Configuration UI please select the 'Editor User Manual' from the 'Help' menu of the Enado Configuration UI.



To access the Live UI enter the IP address of the Enado controller into a web browser. The system will automatically forward you to the Live UI.

! Until a project is published from the configuration interface, no Live UI will be available. See section 9v. Publishing a project.

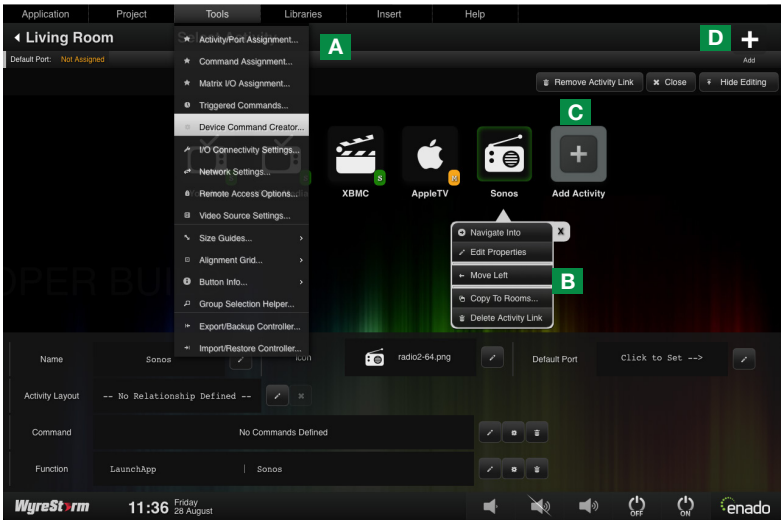
iv. Enado Live UI Elements



A Room/Zone selector
B Activity/Device selector
C Activity Shortcuts
D Video Preview Element – live preview of selected Zone/Activity
E Full Screen Video Preview – press for full screen video preview
F Pause Video Preview - press to freeze frame video preview (no command sent to source device)
G Button Select group – all buttons in the UI are fully configurable so function, appearance and position are fully editable. Buttons presented here are for reference only and used to highlight the concept and graphical elements of the UI.
H Date & Time display - calculated from the display device
I Room/Zone Global controls - present in every activity page per room/zone
J System Settings - main access to system configuration and management

NOTE: See Enado Editor guide for full information on creating, configuring and managing the UI. Downloadable from the Enado product page at wyrestorm.com

v. Enado Configuration UI Elements



A Top menu - access system configuration and management
B Activity/Device Settings
C Quick Insert Activity/Device buttons - fully configurable
D Add Room/Zone Global - adds new global button to send commands to all relevant screens per room/zone

vi. Previewing/Publishing a Project

Once created a project can be published from the Project menu by selecting **“Preview/Publish”.**



When the Preview/Publish window opens be sure copy the QR code to make configuring new control devices as simple as possible for your customer. Then press publish.

vii. Saving links to the interface with different devices

PC, Mac & Linux web browser links to the Enado interface should be saved as standard bookmarks or favourites.

! Please note that simply typing Enado’s IP address into a browser will always load the last project that was published.

Enado can host multiple projects and once each projects Live UI has fully loaded in the browser it has a unique identifier number at the end. Bookmarking this link will always load this project. Other projects can then be published but the link will still take the user to the bookmarked project

From mobile devices, such as iOS, Android, Windows Phone & Blackberry devices, bookmarks should be saved to the UI from the devices web browser, ensuring that the option of save to home screen is selected when asked.

The first time the enado Live UI is loaded from iOS or Android, Enado will guide the user to bookmark on their home screen. From that point on Enado will load as a web app.

Additional Information

Further information about Enado including guides and templates are available at **wyrestorm.com.**

Troubleshooting

Before performing any troubleshooting steps ensure that you have installed the most recent software version onto the Enado Mini Controller and are using the most recent version of your Web Browser. WyreStorm highly recommend Chrome on Windows PC’s and Safari on Mac OS X for configuration.

If you are unable to access the Enado Mini web interface try the following:

1. Ensure your PC is set to the same IP address range as the Enado Mini controller if you are unsure set your computer to receive an IP address automatically or using DHCP. Try rebooting your router.

2. If you are seeing erratic behaviour from the UI try emptying your browser cache, disabling privacy modes or Ad-blocking software and rebooting your PC. If problems persist try downloading another browser to ascertain if the problem is with your browser.

3. Try hard wiring you PC or laptop to the router. Intermittent WiFi connections will prolong the configuration process.

4. The default passwords for the Enado web interfaces are ‘password’ or ‘password123’.

If you are having trouble with your published project please try the following:

1. Use the View/Print Details option in the Project menu to ensure all of your configured buttons link to the correct activity Layouts.

2. Check the Default Port to which an Activity Layout is assigned to (as shown at the top/centre of each page) or check the port of each individual command to ensure it is set correctly.

3. If you are unable to import graphics make sure they are PNG files for icons & JPEGs or PNGs for backgrounds. When importing backgrounds ensure the filename has only standard characters. Try creating a new Theme.

4. If there are button groups not showing up on the mobile interface - In the Enado Editor click on the button group > Edit Group > Ensure that the Compact UI Order is not set to 0.

Many control issues are caused by environmental factors and are unique to the installation. Therefore the best method of troubleshooting is to trace the signal path and use appropriate test equipment at each stage to test cables and data integrity.

Here are some common issues that affect control data.

IR

1. IR is susceptible to interference from direct & indirect sunlight, artificial lighting (particularly, but not limited to) halogen, Plasma, LED & LCD TVs. If any of these are present near the IR emitters or receivers in the system, it may result in poor IR transfer. Disconnect IR feeds from other areas to ensure they are not passing interference that could be flooding the source.

2. The location of IR emitters is crucial to successful control. Check with the manufacturer for the accurate location of the IR receiver on the device and ensure it is positioned correctly.

3. The integrity of IR data is only as good as the data that is entered into the Enado controller. Relearn codes that are causing issue and test them thoroughly from the device creator.

4. If you are still unable to learn or send IR from the controller after checking these steps, please reboot the Enado controller.

RS232

1. The most common fault with RS232 data transfer is incorrect baud rate settings. Check with the devices manufacturer to ensure the Enado controller has been configured with the correct settings on the correct output.

2. Different devices have different requirements for the RS232 cables they use and the cables supplied with the Enado controller may not be appropriate for the selected device. Check the manufacturer’s specification to ensure the cable meets the requirements for the device. The most common configuration of cable is null-modem or cross over as is supplied with Enado.

3. It is highly recommended that a terminal application such as Putty, Hercules, HyperTerminal or REALTerm is used to test control of a device from a PC and to check the integrity of the data that is emitted from the controller.

4. If you are not able to control a device from the PC please consult the devices manufacturer, manual or if you are unable to view RS232 commands from the controller with these apps, please reboot the Enado controller.
5. Many devices will require special settings in order to respond to RS232 control, which are often manually set on the product being controlled such as sleep modes and energy efficiency settings. Please ensure such features are disabled.

6. Please consult the manufactures handbook of the device you wish to control to ensure it is correctly configured to receive RS232 control commands.

7. Please also note that many products cannot be brought out of standby by RS232 commands.

TCP/IP

1. Check if network devices are able to access the internet and network settings are properly configured. If internet access is not possible, ensure that the device has correct settings in each address field.

2. TCP/IP issues are most commonly IP address related. Devices with DHCP assigned addresses can renew to a different address. This may cause an IP address conflict if there are other devices with statically assigned addresses on the network. Central devices should where possible have static addresses assigned or have static addresses assigned via their MAC address in the router.

3. It is not uncommon for DHCP servers to crash and stop assigning new IP addresses after a DHCP lease expires. Resetting the DHCP server (commonly the router) will ensure it is operating properly and reassign all DHCP enabled clients with new non-conflicting addresses.

FAQ

Can I use a hard button remote with Enado?
The Enado controller cannot be controlled itself by IR, instead it is recommend to use the IR pass-through on the WyreStorm matrix to integrate hard button remotes.

How do I make a smart phone or tablet only control Enado?
It is possible to configure iOS & Android devices to only control Enado and remove access to all other functionality through the use of **Kiosk** modes and apps.

In iOS this functionality is built into the OS under Settings>General> Accessibility>Guided Access.
On Android searching the **Play** store for “Kiosk” will display various options of which SureLock is recommended.

How many zones & devices can be controlled by Enado?
The Enado Controller has a large selection of control outputs but this can be extended using the Enado IO Ethernet & WiFi extenders. Any Enado system can have an unlimited number of zones (WyreStorm have tested up to 100) but by expanding the control outputs an unlimited number of devices also be controlled.

How many Enado controllers can I use in an installation?
Although any number of controllers can be used in a single install if required, it is recommended to have a single central controller and expand the I/O with IP extenders to prevent the user having several different interfaces on their device.

How can I expand the control outputs of the Enado controller?
The IR, RS232, Sensor & Relay Input & outputs can be extended using Enado or Global Cache I/O Ethernet or WiFi extenders.

How do I get video onto the network for display on Enado?
The Enado interfaces ability to display video requires an IP video source such as an Axis M70 series network video Encoder or IP CCTV camera.

A guide to installing & configuring the video feedback within Enado can be found at **wyrestorm.com**

Maintenance

Clean this unit with a soft, dry cloth only. Never use alcohol, paint thinner or other harsh chemicals.

Product Service

Provided Service:

1. Damage requiring service: This unit should be serviced by a qualified service personnel if:

- The power supply or AC adaptor has been damaged.
- Objects or liquid have gotten into the unit.
- The unit has been exposed to rain.
- The unit does not operate normally or exhibits marked change in performance.
- The unit has been dropped or the cabinet damaged.

2. Servicing Personnel: Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorised servicing personnel.

3. Replacement Parts: When parts need replacing, ensure parts approved by the manufacturer are used - either those specified by the manufacturer or parts possessing the same characteristics as the original parts. Be aware - unauthorised substitutes may result in fire, electric shock, or other hazards and will invalidate your warranty.

4. Safety Check: After repairs or service, ask the service personnel to perform safety checks to confirm the unit is in proper working condition. When shipping the unit carefully pack and send it prepaid, with adequate insurance and preferably in the original packaging. Please include a document or letter detailing the reason for return and include a daytime telephone number and/or email address where you can be contacted.

Mail-in-service

When shipping the unit, carefully pack and send it prepaid, with adequate insurance and preferably in the original packaging. Please include a document or letter detailing the reason for return and include a daytime telephone number and/or email address where you can be contacted.

If repair is required during the limited warranty period, the purchaser will be required to provide a sales receipt or other proof of purchase, indicating date and location of purchase as well as the price paid for the product. The customer will be charged for the repair of any unit received unless such information is provided.

Warranty

Should you feel your product does not function adequately due to defects in materials or workmanship, we (referred to as "the warrantor") will, for the length of the period indicated below (starting from the original date of purchase) either:

a) Repair the product with new or refurbished parts.
or
b) Replace it with a new or refurbished product.

Limited warranty period:
All WyreStorm products are covered by a 3 year PARTS and LABOUR warranty. During this period there will be no charge for unit repair, replacement of unit components or replacement of product if necessary.

The decision to repair or replace will be made by the warrantor. The purchaser must mail-in the product during the warranty period. This limited warranty only covers the product purchased as new and is extended to the original purchaser only. It is non-transferable to subsequent owners, even during the warranty period.

A purchase receipt or other proof of original purchase date is required for the limited warranty service.

Warranty Limits & Exclusions

This Limited Warranty only covers failures due to defects in materials or workmanship and does not cover normal wear and tear or cosmetic damage.

The limited warranty also DOES NOT COVER damage that occurs in shipment or failures caused by products not supplied by the warrantor, failures resulting from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, incorrect installation, set-up adjustment, implementation of/to consumer controls, improper maintenance, power line surge, lightening damage, modification, service by anyone other than a manufacturer-approved service centre or factory authorised personnel, or damage attributable to acts of God.

There are no express warranties except as listed under "limited warranty coverage." The warrantor is not liable for incidental or consequential damage resulting from the use of this product or arising out of any breach of this warranty.

For example: damages for lost time, the cost of having a person/persons remove or re-install previously installed equipment, travel to and from service location, loss of or damage to media, images, data or other recorded/stored.

Disclaimer

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Installation Notes

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