**HTD**

**Home Theater Direct**

# HTDNET-LYNC

## Installation & User's Manual

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# Installing the HTDNET-LYNC Server

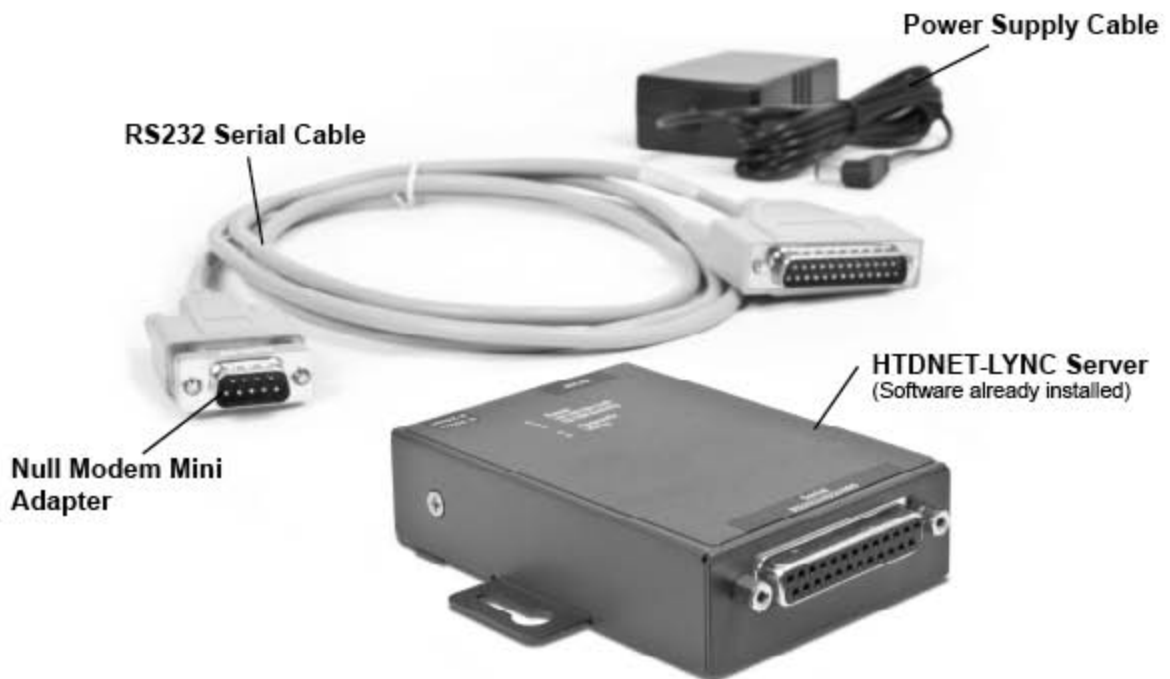## PLEASE READ THIS DOCUMENT BEFORE YOU INSTALL AND USE THIS DEVICE.

The HTDNET-LYNC™ device is used to connect an HTD Lync6™ or a Lync12™ Whole-House Controller into your home's wireless or wired network.   The HTDNET-LYNC will not work with HTD's MCA-66™ or MC-66™ Controllers.

When properly installed and configured, you will be able to control up to six (6) Zones of a Lync6 or Lync12 Whole-House Controller from a wireless or wired portable computing device (such as a PC, Mac™, iPod Touch, iPhone™,  Android™ or other "smartphone" devices.)   Your computing device must have access to your home's wireless or wired network.

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## The HTDNET-LYNC product includes the following items:
1. One (1) **HTDNET-LYNC Server** unit (software is already installed in it)
2. One (1) 120/240VAC **Power Supply** & Cord (with international adapters)
3. One (1) 6 foot-long RS232 **Serial Cable** for connecting between the HTDNET-LYNC Server and the RS232 Serial Connector on the back of your Lync6 or Lync12 Controller
4. One "**Null Modem Mini Adapter**" plug (attaches to the end of the Serial Cable - <u>Required for operation</u>)



**Power Supply Cable**

**RS232 Serial Cable**

**HTDNET-LYNC Server**
(Software already installed)

**Null Modem Mini Adapter**

You will also need a Cat5e cable (**<u>NOT included</u>**), with male RJ45 connector tips on each end.  The Cat5e cable must be long enough to connect from the HTDNET-LYNC Server unit, directly into your network Router or to another connection point on your home's computing network.

# Installing the HTDNET-LYNC Server

## Getting Started:

1. Connect the RS232 Serial Cable (with the Null Modem Mini Adapter attached) to the back of the Lync6 or Lync12 Controller (where it is labeled "RS232 INTERFACE"), and to the HTDNET-LYNC Server unit. <u>Be sure the small, orange "Null Modem Mini Adapter" is used also</u>.
2. Connect a Cat5e (or Cat6) cable from the HTDNET-LYNC Server, to one of the available "LAN" ports on your network Router or into another available connection in your network.
3. Plug the Power Supply into an available 120 VAC electrical outlet & it to the HTDNET-LYNC Server.
4. The HTDNET-LYNC Server's operation LEDs will light, and it will go through "self-diagnostics". After a short period of flashing LEDs, two LEDs will stay illuminated and one will flash periodically to indicate that it is communicating with your network router.
5. Your network Router will automatically recognize the presence of the HTDNET-LYNC Server, and will assign it a unique network number, known as an internal "IP Address". An IP address is made up of four groups of numbers, separated by periods (for example, 192.168.1.10) As long as the HTDNET-LYNC Server unit stays connected to your network, its assigned internal IP Address will stay the same.
6. Now, in order to access the HTDNET-LYNC Server from your portable phone or other device, you will need to know what "IP Address" your router assigned to the HTDNET-LYNC Server.
7. **Preferred method for determining your HTDNET-LYNC Server's IP address:**
   • Download and use a free utility called **"Fing"** directly onto your handheld device.

   <u>For iPhone, iPad, iPod-Touch or Android users:</u>
   • Go to the Apple iTunes/App Store (Apple devices) or Android Market (Android devices) and search for **"Fing"**. It's from a company called "OverLook" - It's a FREE download and there are no usage fees.

   • Select and install **"Fing"** on your device.

   • Make sure your device has access to your wireless network.

   • Run **"Fing"** on your device. You'll see a screen similar to the one below.

   • On the **Fing** screen, you will see a list of all the devices currently operating on your network. On the right side

of the Fing screen, look for a device with the name "PRONET". That is the HTDNET-LYNC server. To the left of that, you will see the device's IP address (in the example above, it is shown as "192.168.1.10" - Your HTD NET-LYNC's IP address will likely be different.)

• Write down the IP Address shown for "PRONET" on YOUR screen here: _____. _____. _____. _____

8. Now, open a web browser on your phone or portable device.
9. In the address bar (not the search bar) at the top of the web browser, enter the IP Address you just found, followed by "**/keypad.html**" (no spaces.)    Using the example from the example above, your entry would look like this:

**192.168.1.10/keypad.html**  (your numbers will likely be different)

11. Now press the "**enter**" button on your portable device (or whatever you normally press on your portable device after entering a website address), to go to that website.
12. You should now see a screen on your portable device that looks like the one below.



Note: The screen shown above is for a Lync12 Controller. If you are using a Lync6 Controller, the software will automatically detect that and you will instead see a screen with six Zones.

13. Next, save that IP/Device address as a Shortcut or Favorite on your device.... and in the future, you won't have to enter it again. For example, you could save it as "**HTD Keypad**". Next time you can just go to your shortcuts and tap on it.... and your "**HTD Keypad**" will be ready to go.
14. Now read through the Quick Start Guide for using the HTDNET-LYNC system.

## If you instead plan to find your device's IP address using "Fing" from a PC or Mac:

1. Go to **www.over-look.com**
2. At the top of the site, click where it says "**Download**"
3. On the next page, download **Fing version 1.4**, for the device you will plan to install and run it on.
4. After you install it, the first time it runs, it will try to ask you several questions. Don't worry about answering those questions.... just close that window and then do the following:

**For Windows Vista & Windows 7 users:**
• With your mouse, click on Windows Start, and look for the "Search Programs and Files" box at the bottom of the pop-up Start window.
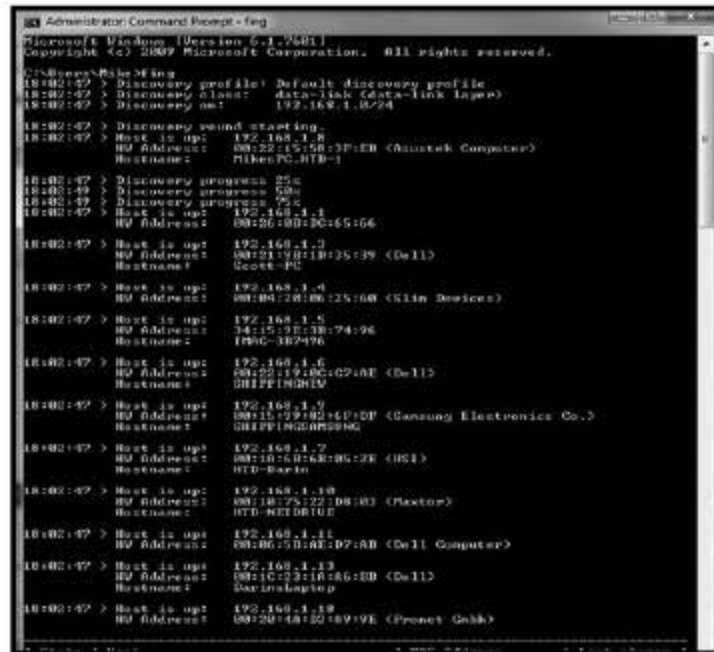
# Installing the HTDNET-LYNC Server

- Type "**cmd**" in the search box and press the "**Enter**" key.  A window with a black background will pop-up.
- In the windows, to the right of C:\.....\...>  where the cursor is blinking, type **fing**, then press the "Enter" key.
- **Fing** will run and you will see the list of device Names and IP Addresses.

## For Windows XP users:
- With your mouse, click on Windows Start, then click on "**Run**".
- Type "**cmd**" in the search box and press the "**Enter**" key.  A window with a black background will pop-up.
- In the windows, to the right of C:\.....\...>  where the cursor is blinking, type **fing**, then press the "Enter" key.
- **Fing** will run and you will see the list of device Names and IP Addresses

The Fing window for the PC or Mac will look something like this:



Write down the IP Address shown for "PRONET" on YOUR screen here: _____. _____. _____. _____

- Now, open a web browser on your phone or portable device
- In the address bar (not the search bar) at the top of the web browser, enter the IP Address you just found, followed by "**/keypad.html**" (no spaces.)    Using the example from our screen above, your entry would look like this:

## 192.168.1.10/keypad.html (your numbers will likely be different)

- Next press the "**enter**" button on your portable device (or whatever you normally press) on your portable device after entering a website address.
- You should now see a screen on your portable device that looks like the one on **the previous page**.
- Next, save that IP/Device address as a Shortcut or Favorite on your device.... and in the future, you won't have to enter it again.  For example, you could save it as "HTD Keypad".  Next time you can just go to your shortcuts and tap on it.... and your "HTD Keypad"  will be ready to go.
- Now read through the HTDNET User's Manual that follows for using the software.

## Call us with any questions:
## HTD - 1-866-483-2834

Use the dropdown selectors in the center of the display to select a source and set the volume of a zone.

Press the Status Button to check the current status of a selected zone or to refresh the keypad display on your smart device.

Press one of these buttons to select the zone you want to control. The button turns red for the zone being controlled. All zones that are "ON" have a blue light to the left of the zone name button.

**New Zone 1**     Status

Source     Volume

Src 18 ▼     17 ▼

● On   Off ●     Mute

This button can be pressed to mute the audio playing within the selected zone. When a zone is muted the "Mute" button will be red.

Press the "Group" button to select multiple zones at one time. Touch the "Group" button again to exit multiple zone control.

| | | |
|---|---|---|
| New Zone 1 | Zone 2 | Demo Room |
| Zone 4 | Zone 5 | Zone 6 |
| Zone 7 | Zone 8 | Zone 9 |
| Zone 10 | Zone 11 | Zone 12 |

Group

All On    All Off    MP3

Setup

All zones can be turned "ON" or "OFF" by pressing the 'All On' or 'All Off' buttons.

Press the MP3 button to go to the MP3 player screen in order to control the MP3 player

Use the Setup Button to enter the Setup Screen in order to name your sources and your zones

Once you select a zone you can turn the individual zone "ON" or "OFF" by pressing the "ON" or "OFF" buttons.

## MP3 Control Window

The Status Button works the same as above. Except it will also refresh what MP3 audio track you are currently listening to.
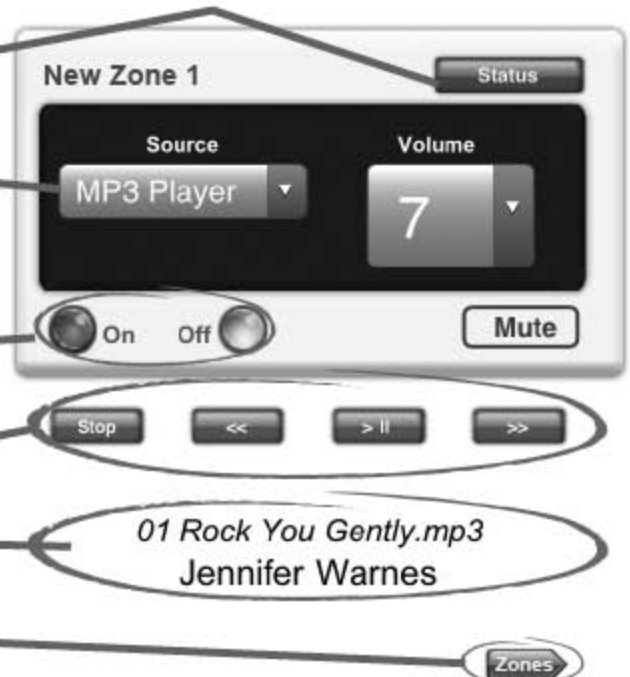
The Drop Down Selectors work the same as above. Selecting any other source other than the MP3 player will take you to the above screen.

The zone you are currently controlling can turn the zone "ON" or "OFF" by pressing the ON or OFF buttons.

Use these buttons to Play/Pause, skip forward, skip backward, and power on/off the MP3 player.

This area will display the title and artist of the song that is playing.

Use the Zones Button to go back to the main screen to select different zones.

**New Zone 1**     Status

Source     Volume

MP3 Player ▼     7 ▼

● On   Off ●     Mute

Stop    <<    > II    >>

*01 Rock You Gently.mp3*
Jennifer Warnes
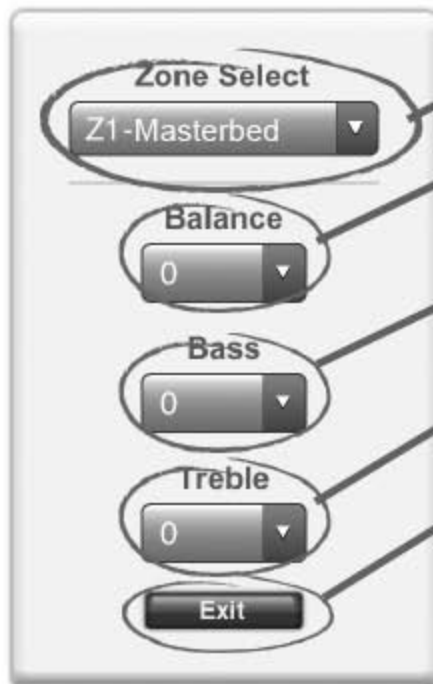
Zones

## Zone/Source Setup Window

Use the dropdown box to select the zone you want to name. Then place your cursor in the empty box below the selected zone and type in the name you want to appear for that zone, such as "Living Rm" and then press the "Save" button.

**Zones**

Z1-Masterbed

New Zone Name (10 char max)

Save

Use the dropdown box to select the source you want to name. Then place your cursor in the empty box below the selected source and type in the name you want to appear for that source, such as "Bobs iPod" and then press the "Save" button.

**Sources**

S1-Yamaha

New Source Name (10 char max)

Save

Press the "Exit Setup" Button to return to the virtual keypad screen.

Press the "Tone/Bal" Button to go to the Tone and Balance screen.

Exit          Tone/Bal

## Tone and Balance Setup Window

Use the dropdown box to select the zone you want to adjust.

**Zone Select**

Z1-Masterbed

Use the dropdown box to adjust the **BALANCE** for the selected zone. All adjustments will happen "live/realtime".

**Balance**

0

Use the dropdown box to adjust the **BASS** for the selected zone. All adjustments will happen "live/realtime".

**Bass**

0

Use the dropdown box to adjust the **TREBLE** for the selected zone. All adjustments will happen "live/realtime".

**Treble**

0

Press the "Exit" Button to go to return to the Setup Screen

Exit

**Note: Screen Appearance Will Vary Slightly Depending On Device and Browser**