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## 4 Setting temporary IP address using ARP command

This procedure will work only in a local network. After this procedure the temporary IP will be active only until restart/reboot. After a restart the procedure has to be repeated.

### STEP 1

Either use a network cable to link the Exstreamer and the PC directly, or connect the Exstreamer to the PC via your network switch and power the device. Make sure that you have a valid static IP address configured on your PC (e.g. 192.168.0.2)

### STEP 2

Windows : For a command window, click on «Start», click on «Run...», in the «Open» field type `cmd`, click on «OK». OSX / Linux : Open a terminal window.

### STEP 3

Please proceed to step 4 if you linked the PC directly to the device in step 1. To ensure that you use a free IP address (not already used by another device in the network) please use the Ping command. To verify availability in this example we assume the PC to have the IP address «192.168.0.2» and want to check if «192.168.0.6» is free. Type `ping 192.168.0.6` and hit the «Enter» key. You should get no reply which gives you reasonable assertion that the «pinged» IP is available.

### STEP 4

Look for the Exstreamer's MAC address printed on a label on the bottom of the device (12 hex digits, separated by a hyphen every 2 digits). Type into the windows command window

```
arp -s 192.168.0.6 00-08-E1-00-B1-77
```

or on a OSX or Linux system type into the terminal

```
arp -s 192.168.0.6 00:08:E1:00:B1:77
```

and hit the «Enter» key (replace the digits according to your device's MAC address). You must have administrative rights to be able to do so (sudo on OSX / Linux).

### STEP 5

Now we have to make the Exstreamer listen to the IP address «192.168.0.6» using the Telnet command. To do so type into the command window `telnet 192.168.0.6 1` and hit the «Enter» key (the number «one» must be there for this command to work correctly !!!). The Exstreamer will immediately refuse the connection on port 1, but will be available for browser access as long as the device stays powered.

### STEP 6

To check if the Exstreamer is responding you can use the ping command again. To do so type `ping 192.168.0.6` and hit the «Enter» key. If you do get a reply the IP address 192.168.0.6 can be used to access the Exstreamer using a web browser. Please go back to section «2 Network configuration by web browser» to configure a static IP address. If you do get «request timed out» then please repeat step 5 carefully (you most likely mistyped the telnet command) or repeat the entire procedure. If the ARP method does not work for you, refer to the user manual for further methods.

## 5 Troubleshooting

- If the display (C) stays dark check the power cabling (installation step 3).
- Check if the green LINK LED (I) is lit, if it is not then check your network cabling (network port G).
- If you have doubts about the current device settings you can revert the device to its factory defaults by pressing the Reset button (A) until the red status LED (C) blinks rapidly (takes about 10 seconds). The device will reboot once the button is released..

For information about our products, manuals, technical documentation, latest firmware, support and access to the user forum please visit [www.barix.com](http://www.barix.com).

## 6 Safety Glossary

AC current: 

DC current: 

Input Terminal: 

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# BARIX

# EXSTREAMER

# 110

## Quick Install Guide Version 3.1

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### **Multiformat IP Audio Decoder**

#### **Package contents**

- a Exstreamer 110
- b Power supply
- c RCA Stereo cable
- d IR remote control
- e Batteries (2 x AAA)

#### **Cable Set AUDIO** (not included)

- f Earphone
- g RCA Stereo cable
- h Network cable
- i Serial cable

#### **Firmware**

This device comes preloaded with standard firmware.  
Alternative firmware can be downloaded from [www.barix.com](http://www.barix.com).

#### **Support**

For support please contact your local dealer or visit [www.barix.com](http://www.barix.com).

## Front view



### A Reset button

A brief press of the button will reset the device.  
Holding the reset button pressed in for approximately 10 seconds will reset the device and restore the factory default settings when the button is released.

### B EXT.

USB interface solely for flash memory sticks  
(not supplied)  
USB output: 5V, 500mA

### C LCD

Status display

### D Headphone out

Standard stereo mini jack (3.5 mm)  
**Remark:** Minimum impedance recommended : 8Ohm

### E IR sensor

USB interface solely for flash memory sticks  
(not supplied)

### F Line out

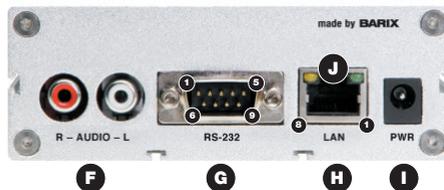
Stereo RCA line outputs  
**Remark:** Minimum impedance recommended : 8Ohm

### G RS-232 serial port (DSub 9 pin male)

Pin	Description
1	Relay common
2	Receive Data [RxD]
3	Transmit Data [TxD]
4	V+ 12V*, 100mA max
5	Ground [GND]
6	Not connected
7	Ready to Send [RTS]
8	Clear to Send [CTS]
9	Relay Normally Open

\* Pin 4 will provide 2.6V less than the supplied voltage on Vin+ (H) but not more than 12V.

## Rear view



### H LAN port 10/100 (RJ45)

Standard RJ45 Ethernet socket

Pin	Description
1	Tx +
2	Tx -
3	Rx +
4	Not supported*
5	Not supported*
6	Rx -
7	Not supported*
8	Not supported*

\* do not connect PoE power at this pin

### I Power (6 Watt max.)

Pin	Description
1	Vin - (ring)
2	Vin+ (center pin)
	9..30 VDC
	12..24 VAC

### J LAN status LEDs

Green LED for Link, yellow LED for Activity

# 1 Installation

## STEP 1

Plug a standard (straight) network cable (h, not included) into the network port (H) of the Exstreamer and the other end into your hub or switch. You can also use a crossover network cable (not included) for a direct connection to your PC.

## STEP 2

- i) Plug standard headphones or the earphone (f, not included) into the headphone output (D) and listen.
- ii) Plug the RCA cable (c) into the LINE OUT outputs (F) and connect the cable to inputs of your mixing console or monitoring device and listen.

## STEP 3

Connect the Power supply (b) to the device (socket I) and then to an appropriate electrical outlet.

## STEP 4

- i) The Exstreamer will now acquire an IP address and announce it over the speaker output (if no DHCP server is available this can take up to 5 minutes).
- ii) If you did not connect any audio outputs in step 2, either see the next page for the ARP command procedure, or use the "Barix Discovery Tool" Java application (download the latest version from [www.barix.com](http://www.barix.com)) on your computer (Windows, Mac or Linux) and click the "Get" button to find out which IP address the device has obtained (see picture at the bottom of the page). Make sure that the Ethernet address (MAC) matches your device (see label on the bottom of the device).

Now that you know the IP address proceed to the next section "Network configuration by web browser".

If you were not able to obtain the device's current IP address with the previous steps see section "Troubleshooting".

## 2 Network configuration by web browser

Most Barix applications require no configuration but use DHCP to configure network settings dynamically.

If you need to use static (fixed) network settings follow steps 1 to 3, otherwise continue from step 4.

## STEP 1

Open your web browser.

## STEP 2

Enter the IP address that was announced by the Exstreamer and press Enter. Example: 192.168.0.12 Click on the Configuration button, then on Advances Settings/Network.

**NETWORK SETTINGS**

Use SonicPi  Yes  No

IP Address

Netmask

Gateway IP Address

Primary DNS

Alternative DNS

Syslog Address

DHCP Host Name

Web Server Port

## STEP 3

In order to make the application work the following parameters must be set (check with your network administrator):

- static IP address (the default «0.0.0.0» sets automatic discovery: BootP, DHCP) and netmask

If your devices are connected via routers also:

- Gateway IP address

Hit the «Apply» button to save all changes. The device will reboot with the configured IP address.

## STEP 4

To complete the application setup, download the firmware documentation from [www.barix.com](http://www.barix.com). Download the product manual for additional information about the hardware installation, technical and mechanical details as well as instructions on updating or changing the loaded application firmware.

# 3 Infrared remote control

## STEP 1

Insert the batteries (e) into the remote control (d), observing the polarity requirements.

## STEP 2

Read the firmware user manual for information about configuration of the IR sensor and the supported functions of the IR remote control.

**CAUTION:** Risk of explosion if the battery is replaced by an incorrect type

Discovery Tool							
Set reply	Ethernet address	IP address	HW type	IPAM type	Product ID	FW version	DHCP name
	00-08-e1-02-5a-4d	192.168.11.170	Annunicom 100				
	00-08-e1-01-0a-02	192.168.2.19	Exstreamer 200				
	00-08-e1-02-d5-00	192.168.2.66	Instreamer				

Device selected: