



# EXSTREAMER

## 205

### Quick Install Guide Version 1.0

### Multiformat network audio decoder

#### Package contents

- a Exstreamer 205
- b Power supply with EU and US cord
- c IR remote control
- d Batteries (2 x AAA)
- e Speaker screw terminal banana jacks (2 red, 2 black)

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

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

#### Firmware

This device comes preloaded with the Streaming Client firmware. Alternative firmwares 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).

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## 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 IR sensor

Sensor for the infrared remote control

### C Status LEDs

Green and red LEDs for status display

### D microSD

Slot for microSD(HC) flash memory card (not supplied)

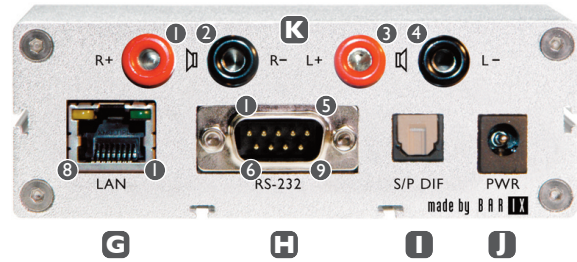
### E Line in

Stereo RCA line inputs (for more information please see chapter 5)

### F Headphone out

Standard stereo mini jack (3.5 mm)

## Rear view



### G LAN port 10/100 (RJ45 Ethernet socket)

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

Green LED for Link status, yellow LED for Activity status

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

Pin	Description
1	Not connected
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	Not connected

### I S/P DIF out (Standard optical digital socket)

### J Power

Pin	Description
1	Vin - (ring)
2	Vin+ (center) 24VDC

### K Speaker out (Standard banana jack sockets)

Pin	Description
1	Right speaker +
2	Right speaker -
3	Left speaker +
4	Left speaker -

2 x 25 Watt max. on 8 Ω speakers. Bridging mono mode not supported!

# I Installation

## STEP 1

Plug a standard (straight) network cable (h, not included) into the network port (G) 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

Apply one of the three options:

- i) Plug standard headphones or the earphone (f, not included) into the headphone output (F) and listen.
- ii) Plug your speakers into the outputs (K) using the speaker screw terminal banana jacks (e) and listen.
- iii) Plug an optical cable into the S/P DIF output (I) and connect the cable to an input of your mixing console or monitoring device and listen.

## STEP 3

Connect the power supply (b) to the device (socket J) and then to an electrical outlet with the appropriate cord.

## STEP 4

- i) The Exstreamer will now acquire an IP address and announce it over the audio outputs (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

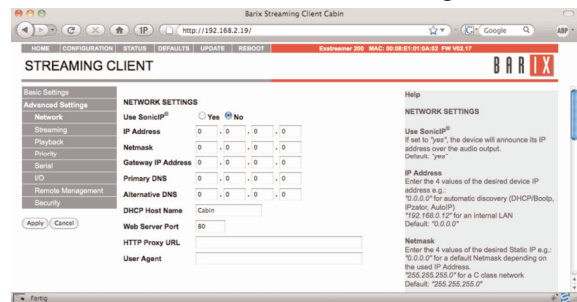
Most Barix applications require no configuration using DHCP to configure network settings dynamically. If you need to use static (fixed) network settings follow steps 1 to 3, otherwise continue from step 4.

## 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  
In the top menu click on the “Configuration” button. In the left menu click on “Advanced Settings”.



## STEP 3

In order to make the application work (e.g. pull a radio stream) 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)
- Gateway IP address
- Primary DNS (and optionally a Secondary DNS)
- HTTP Proxy URL (if needed by your network)

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.

Set reply	Ethernet address	IP address	HW type	Product ID	FW version	DHCP name
	00-08-e1-01-44-fc	192.168.11.242	Annunicom 155	annunicom	Va3.08	
	00-08-e1-00-e2-16	192.168.11.239	Exstreamer 205	streaming client	V02.25	
	00-08-e1-01-14-f0	192.168.11.205	Exstreamer 110	abcd	Va0.55	
	00-08-e1-01-50-44	192.168.11.223	Exstreamer 100	abcd	Va0.25	

Device selected: Get Set Clear Web Browser

### 3 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 devices 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.

## 4 Troubleshooting

- If the status LEDs (C) stay dark check the power cabling (installation step 3).
- Check if the green LINK LED (G) 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 until the red status LED (C) blinks rapidly (takes about 10 seconds). The device will reboot once the button is released.

## 5 Setting up Line Inputs

The functionality must be supported in the FW.

For information about setting up the Line Inputs please refer to the technical documentation of the firmware.

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).

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