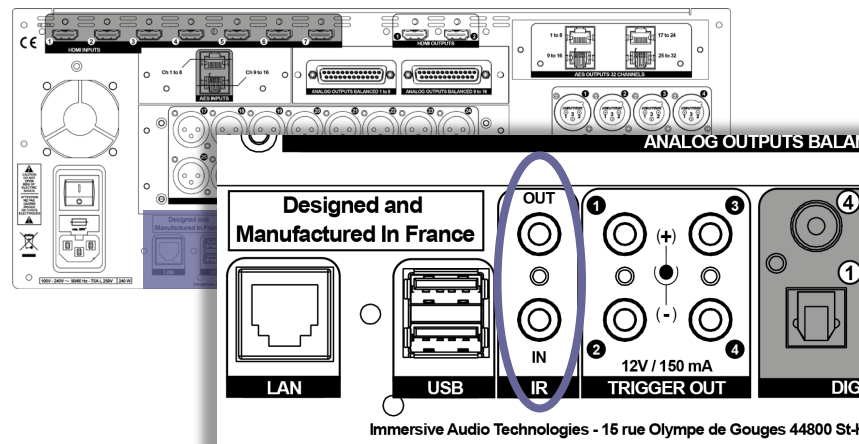# IR Input and Output
Feature description

BRIEF OVERVIEW – IR FUNCTION

› Connectivity

  ▪ Back panel description

  ▪ Connector description

› Command set

› Settings

  ▪ Input and Preset Assignment

  ▪ Recommended settings in Web UI

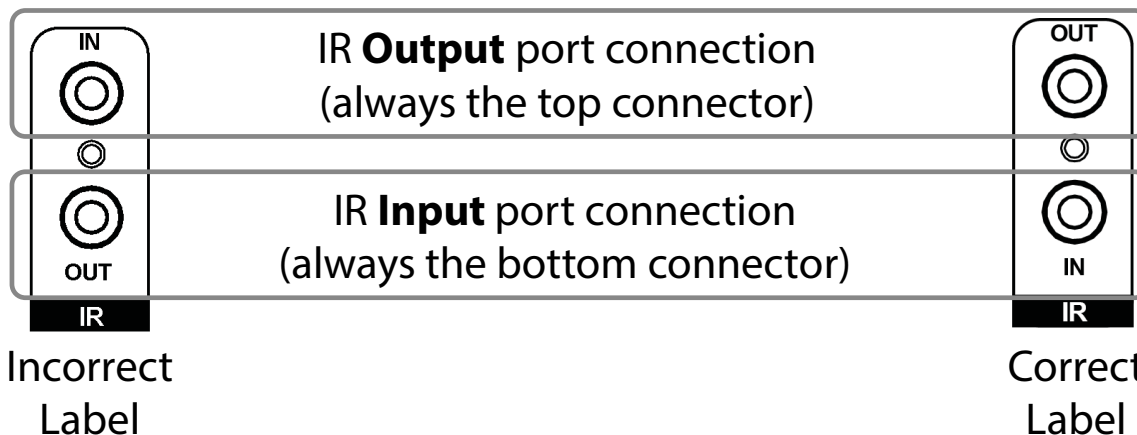› Logitech Harmony integration

  ▪ MyHarmony

  ▪ MyHub

CONNECTIVITY

› IR function accessible via 2 back panel 3.5mm connectors: Input and Output

› Loop through of incoming commands to output jack

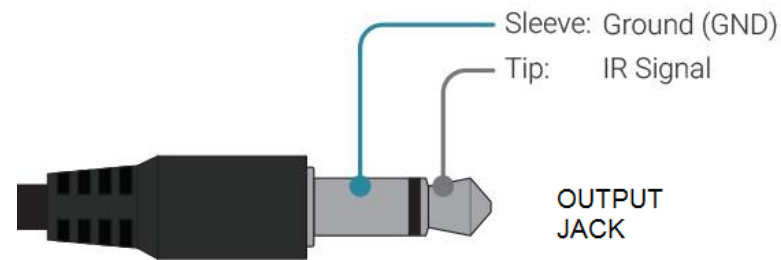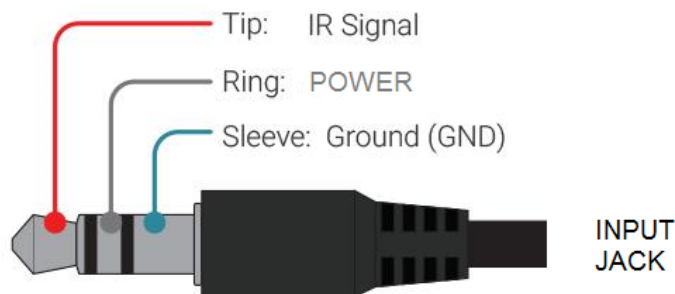› Some units have **wrong labelling** in production, follow below information:

IR **Output** port connection
(always the top connector)

IR **Input** port connection
(always the bottom connector)

Incorrect Label

Correct Label

CONNECTOR DESCRIPTION

› Typical IR receiver and transmitter with 3,5mm jack:

› ISP pinout:

Tip: IR Signal
Ring: POWER
Sleeve: Ground (GND)

INPUT JACK

Sleeve: Ground (GND)
Tip: IR Signal

OUTPUT JACK

› To cope with the limited amount of IR receiver models available in the market with our « pinout », we suggest swapping Signal and Supply pins using such adaptors

› http://fr.farnell.com/pro-signal/psg03482/cable-3-5mm-jack-2-rca-plug-6ft/dp/2802127#

IR COMMANDS SET

› Based on RC5 / RC6 protocol (https://en.wikipedia.org/wiki/RC-5)

	Command Name	System	Command	FUNCTION
Power	POWER ON/OFF	16	12	Power the unit On / Sleep (Toggle)
	POWER ON	16	29	Power the unit On
	POWER OFF	16	30	Power the unit Off
Volume	VOL UP	16	16	Master volume up
Control	VOL DOWN	16	17	Master volume down
	Audio MUTE (Toggle)	16	13	Mute On & Off (Toggle)
Input	INPUT NEXT	16	32	Switch Input forward
Source	INPUT BACK	16	33	Switch Input backward
	Input 1	16	1	Select Assigned Input 1
	Input 2	16	2	Select Assigned Input 2
	Input 3	16	3	Select Assigned Input 3
	Input 4	16	4	Select Assigned Input 4
	Input 5	16	5	Select Assigned Input 5
	Input 6	16	6	Select Assigned Input 6
Preset	Preset +	16	47	Select Next Assigned Preset
	Preset 1	16	67	Select Assigned Preset 1
	Preset 2	16	68	Select Assigned Preset 2
	Preset 3	16	69	Select Assigned Preset 3
	Preset 4	16	70	Select Assigned Preset 4
	Preset 5	16	71	Select Assigned Preset 5
Preferred	Dolby Surround	16	91	Select Dolby Surround
Upmix	DTS Neural:X	16	92	Select DTS Neural:X
	Auro-Matic	16	93	Select Auro-Matic
	StormAudio Upmix	16	96	Select StormAudio upmix (future use)
	Native	16	94	Select Native
	Stereo Downmix	16	95	Select Stereo Downmix

CONFIGURATION

› Inputs and Presets should be first configured in the ISP / I.ISP WebUI

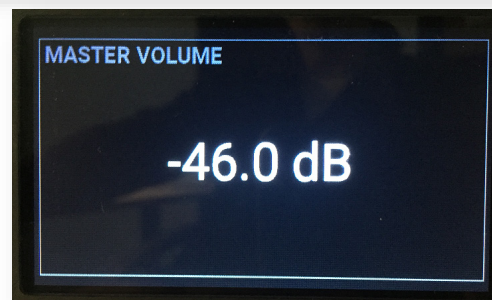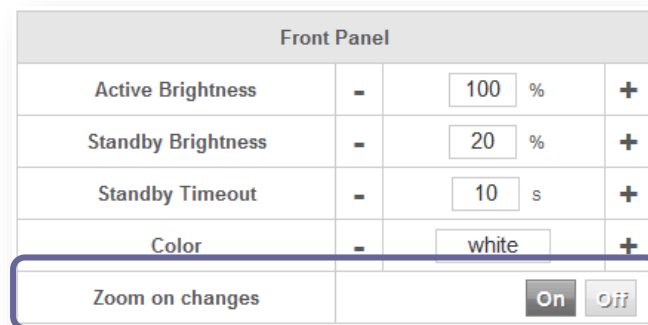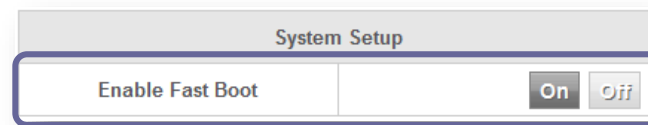› Inputs and Presets can then be assigned in the Settings page to up to **6 Inputs and 5 Presets IR commands**

IR Remote Control Function Assignment	
▶ Inputs	
Input 1	HDMI 1 ▾
Input 2	HDMI 2 ▾
Input 3	Optical 1 ▾
Input 4	Coaxial 4 ▾
Input 5	Stereo 1 ▾
Input 6	None ▾

IR Remote Control Function Assignment	
▶ Presets	
Preset 1	SphereAudio ▾
Preset 2	Theater 1 ▾
Preset 3	SubTheater1 ▾
Preset 4	SubTheater2 ▾
Preset 5	None ▾

CONFIGURATION

› Additionally, it is recommended in the Settings page:

› To Enable the Fast Boot Mode to avoid loss of commands at power up from Sleep mode

› To Enable Zoom On Changes so any changes linked to a remote control command is shown with bigger font in the front panel display

System Setup		
Enable Fast Boot		On Off

Front Panel				
Active Brightness	-	100	%	+
Standby Brightness	-	20	%	+
Standby Timeout	-	10	s	+
Color	-	white		+
Zoom on changes			On Off	

MASTER VOLUME

-46.0 dB

LOGITECH HARMONY

› Integration within **Logitech Harmony** database

› Brand: **StormAudio**

› Device: **ISP Elite**

› Possibility to create activities and use the ISP as the audio playback device. See MyHarmony website

› Compatible with **Logitech** Harmony **Hub** interface using IR Receiver on ISP/I.ISP

› See some Harmony Hub setup tutorials

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