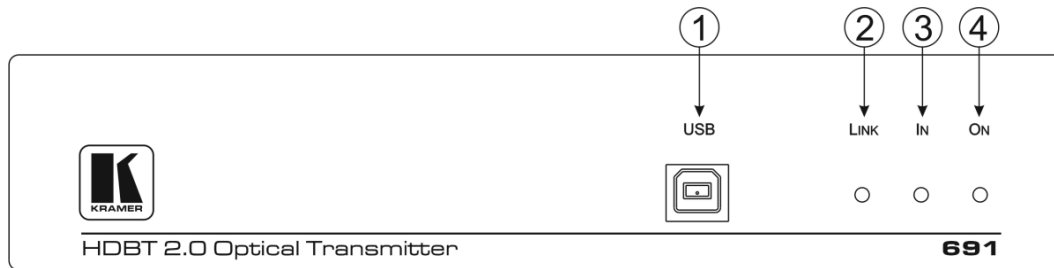# KRAMER

691 Quick Start Guide

This guide helps you install and use your **691** for the first time.

Go to **www.kramerav.com/downloads/691** to download the latest user manual and check if firmware upgrades are available.
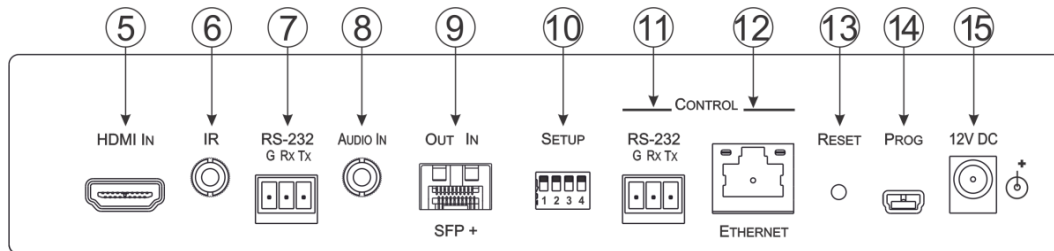
Step 1: Check what's in the box

☑ **691** HDBT 2.0 Optical Transmitter

☑ 1 Power adapter (12V DC)

☑ 4 Rubber feet

☑ 1 Quick start guide

Step 2: Get to know your 691

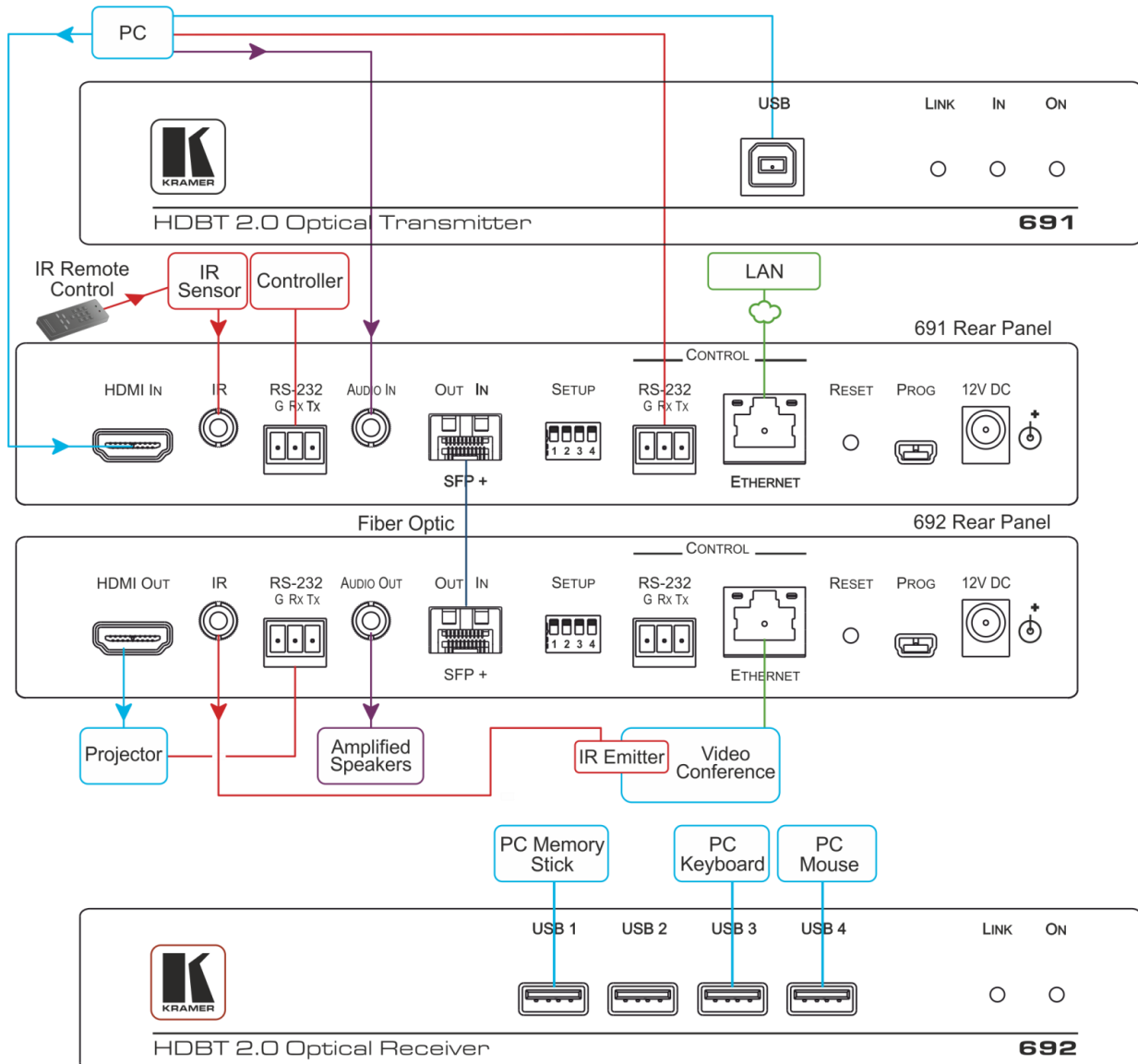| #	Feature	Function
1	USB Connector	Connect to the USB host for traffic extension, (for example, a laptop)
2	LINK LED	Lights green when the HDBT link is valid
3	IN LED	Lights green when an HDMI active signal device is connected
4	ON LED	Lights green when the device receives power

#	Feature		Function
5	HDMI IN Connector		Connect to the HDMI source
6	IR 3.5mm Mini Jack Connector		Connect to an external infrared transmitter or sensor for traffic extension
7	RS-232 3-pin Terminal Block		Connect to an RS-232 transmitter for traffic extension (for example, a PC to control the projector)
8	AUDIO IN 3.5mm Mini Jack		Connect to the stereo, analog audio source for traffic extension
9	OUT IN SFP+ Connector		Connect the fiber optic cable to the OUT IN SFP+ LC connector
10	SETUP 4-way DIP-switch		Sets the device behavior
11	CONTROL	*RS-232* 3-pin Terminal Block	Connect to the serial controller to control this device
12		*ETHERNET* RJ-45 Connector	Connect to the Ethernet controller to control this device or to a LAN to extend network traffic to the receiver
13	RESET Switch		Press and hold while power-cycling the device to reset to factory default parameters
14	PROG Mini USB Connector		Connect to a PC to perform firmware upgrades
15	12V DC Power Connector		Connect to the supplied power adapter

P/N: 2900-300523QS   Rev: 2

Step 3: Install the 691

To mount the **691** in a rack, use an **RK-1** rack adapter. Alternatively, attach the rubber feet to the underside of the **691** and place it on a table.

Step 4: Connect the inputs and outputs

Always switch OFF the power on each device before connecting it to your **691**. For best results, we recommend that you always use Kramer high-performance cables to connect AV equipment to the **691**.

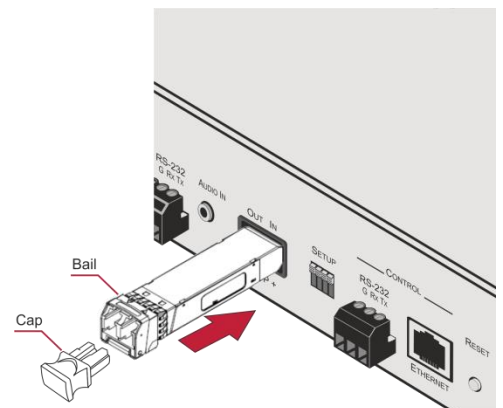**To install the OSP SFP+ transceiver**:

1. Make sure the bail is pushed up, in the closed position.

2. Insert the **OSP SFP+** transceiver into the relevant optical device SFP+ slot and push it in until it clicks.

Remove the protective cap and store it in a safe place for future use.

Warning: Connecting the **OSP SFP+** connector to an LC(APC) fiber connector may cause poor performance and damage the connector! Refer to www.kramerav.com/downloads/OSP-MM1 for more information.
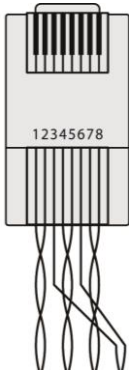
Warning: Class 1 Laser Product

- Invisible laser radiation present.

- Avoid long-term viewing of laser.

- Avoid the use of magnifying viewing aids or instruments (such as binoculars, telescopes, microscopes and magnifying lenses, but not spectacles or contact lenses).

- Avoid placing optical devices in the emitted beam that could cause the concentration of the laser radiation to be increased.

RJ-45 Pinout:

For the Ethernet connectors, see the proper wiring diagram

PIN EIA /TIA 568B	
PIN	**Wire Color**
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown

SETUP DIP-Switches

A DIP-switch that is down is on, up is off. Changes to the DIP-switches only take effect on power-up. After changing a switch, reboot the device.

#	Function	Status
1	For future use	
2	Audio source priority	Off—Embedded audio (factory default) On—Analog audio
3	EDID lock	Off—Automatic EDID acquisition (factory default) On—Lock (locks the current EDID so that changes on the output do not result in changes to the EDID)
4	Audio mode selection	Off—Auto (factory default) On—Manual

Step 5: Connect the power

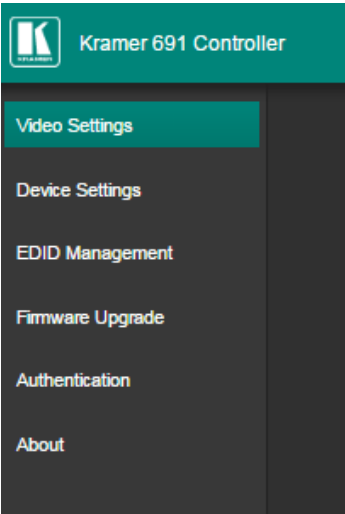Connect the power adapter to the **691** and plug the adapter into the mains electricity.

Safety Instructions

Caution: There are no operator serviceable parts inside the unit
Warning: Use only the Kramer Electronics power supply that is provided with the unit
Warning: Disconnect the power and unplug the unit from the wall before installing
See www.KramerAV.com for updated safety information.

Step 6: Control the 691 via the:

Embedded Web pages:

Kramer 691 Controller
Video Settings
Device Settings
EDID Management
Firmware Upgrade
Authentication
About

RS-232 and Ethernet:

RS-232			
Protocol 3000			
Baud Rate:	115,200	Stop Bits:	1
Data Bits:	8	Parity:	None
Command format:	ASCII		
Example (get device model name):		#model?<cr>	
TCP/IP Parameters			
IP Address:	192.168.1.39	UDP Port #:	50000
Subnet mask:	255.255.000.000	TCP Port #:	5000
Default gateway:	192.168.0.1	Full Factory Reset	
Full Factory Reset			
Rear panel button:	Press and hold to reset to factory default parameters		
P3K command:	#factory<cr>		
Embedded Web pages:	Select Device Settings page and click Factory reset		

Default Parameters	Value
Name:	KRAMER_
Model:	691
Audio delay input switching on new signal:	Immediate
Audio delay input switching on signal loss (leave 5V on):	5 seconds
Audio delay input switching on cable unplug:	Immediate
Video delay power off 5V on signal loss:	15 minutes
HDCP:	Follow output
Web Logon credentials:	Name: Admin; Password: Admin

Technical Specifications

Inputs:	1 HDMI on a female HDMI connector 1 Stereo analog unbalanced audio on a 3.5mm mini jack
Outputs:	1 Fiber Optic on an 10Gbps SFP+ LC connector complying with IEEE 802.3ae
Ports:	1 IR on a 3.5mm mini jack for IR link extension 1 USB on a female USB-B connector for USB link extension 1 Mini-USB connector for device Firmware upgrade 1 RS-232 on a 3-pin terminal block for serial link extension 1 RS-232 on a 3-pin terminal block for device control 1 10Base-T/100BaseTx Ethernet on an RJ-45 female connector for device control and network traffic transfer
Fiber Extension Line:	HDBaseT 2.0 compliant For optimum performance use the recommended multimode or singlemode Kramer SFP+ transceivers available at www.kramerav.com/product/691
Video:	Up to 10.2Gbps bandwidth (3.4Gbps per graphic channel); Up to 4K UHD @60Hz (4:2:0) 24bpp resolution; HDMI 2.0 and HDCP 1.4 signal compliance
Analog Audio:	Up to 1 Vrms level, 0.03% THD + NOISE @ 1kHz at nominal level
Extended USB:	1.1 and 2.0 Host compliance; Up to 127Mbps (out of max 480 USB) extended line rate bandwidth; Up to 7 devices; Up to 2 hubs; Up to 8 ports per hub
Extended RS-232:	300 to 115200 baud rate
Control RS-232:	115200 baud rate
Cooling:	Convection ventilation
Operating Temperature:	0° to +40°C (32° to 104°F)
Storage Temperature:	-40° to +70°C (-40° to 158°F)
Humidity:	10% to 90%, RHL non-condensing
Power Consumption:	12V DC, 1300mA
Dimensions:	21.46cm x 16.3 cm x 4.36cm (8.45" x 6.42" x 1.7") W, D, H
Shipping Dimensions:	35.1cm x 21.2cm x 7.2cm (13.82" x 8.35" x 2.8") W, D, H
Weight:	0.95 kg (2.1lbs)
Shipping weight:	1.45 kg (3.2lbs) approx.
Included Accessories:	Power supply (12V, 2A)
Options:	For optimum range and performance use the recommended USB, Ethernet, serial and IR Kramer cables available at www.kramerav.com/product/691
Specifications are subject to change without notice at www.kramerav.com	

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