Overview

The JPK-1300 Jetpack 3x1 Switching, Transport, and Control solution includes a 3-input wall-plate transmitter, a multi-function receiver, and a keypad for control. The purpose of this document is to illustrate how the solution is to be installed and set up in its simplest configuration by a trained technician.

What's in the Box?

The following items are included with the JPK-1300:
• [1] JPK-1300 Wall-plate Transmitter (with Screws)
• [1] JPK-1300 Keypad (with Screws)
• [1] JPK-1300 Receiver
• [1] DC 24V 3.75A Power Adapter
• [2] Power Cords (US&AU for UA version; EU&UK for EK version)
• [1] Phoenix Connector (3.81mm, 2 Pins)
• [4] Phoenix Connector (3.81mm, 3 Pins)
• [1] Phoenix Connector (5.08mm, 4 Pins)
• [1] IR Wideband Emitter Cable (1.5 meters)
• [2] Mounting Bracket (with Screws)

Power

Active power requirements:
• Voltage, DC (typical): 24V DC 3.75A
• Power consumption (max): 80W (TX + RX + Keypad)

Environmental Requirements

The environmental requirements for the JPK-1300 are as follows:
• **Operating Temperature:** 32° F (0° C) to 104° F (40° C)
• **Storage Temperature:** -4° F (-20° C) to 140° F (60° C)
• **Operating Humidity:** 20% to 90% RH(non-condensing)
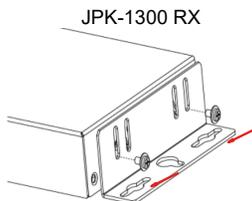• **Storage Humidity:** 20% to 90% RH (non-condensing)

Installation and Connection

Cable Requirements

1. CONTROL port connection distance is up to 164ft/50m via a Shielded Cat 6/6A/7 cable. The CONTROL cable must be pre-run from the Wall-plate Transmitter backbox to the Keypad backbox.
2. AV LINK port connection distance is up to 230ft/70m for 1080P video or 131ft/40m for 4K video via a Shielded Cat 6/6A/7 cable. The AV LINK cable must be pre-run from the Receiver installation location to the Wall-plate Transmitter backbox.

Install Jetpack Receiver

1. Position and install the mounting brackets of JPK-1300 RX with the 4 mounting screws provided, as shown below.

JPK-1300 RX

2. Mount and secure the JPK-1300 to a surface or a suitable location using appropriate mounting screws.

Connect Jetpack Receiver

1. Connect the pre-run AV LINK cable to the AV LINK port on the JPK-1300 RX.
2. Connect the power adapter provided to the JPK-1300 RX.
3. Connect HDMI OUT
   Connect an HDMI display device (such as a projector) to the HDMI OUT port of the JPK-1300 RX.
4. Connect USB DEVICE
   Connect an USB device (such as a Smart Board) to the USB DEVICE port of the JPK-1300 RX.
5. Connect MICROPHONE or OTHER ROOM AUDIO SOURCE
   Connect an audio source (such as a microphone) to the MIC/LINE IN port of the JPK-1300 RX. (Make sure the MIC/LINE switch is turned to MIC when connecting a microphone to the MIC/LINE IN port.)

6. Connect AUDIO OUT
   Connect the AUDIO OUT port to an amplifier or powered speakers and/or connect the AMP OUT port to 4/8 Ohm speakers using appropriate speaker cables.
7. Connections for additional control options:
   • LAN control (Web UI/PC tool/Telnet/SSH): Connect JPK-1300 RX to the same network of the PC or control system via the LAN.
   • RS-232/IR/RELAY control: Connect the RS-232 or IR OUT port of the JPK-1300 RX to the display device such as a projector via an RS-232 cable or the IR emitter cable provided, and connect the RELAY port (1-2) to the electric lifting projection screen.
   • Remote mute control: Connect the REMOTE MUTE port of the JPK-1300 RX to the contact closure of the fire alarm system.
Note: Please refer to the Instruction manual for the configuration of RS-232/IR/RELAY control and the REMOTE MUTE.
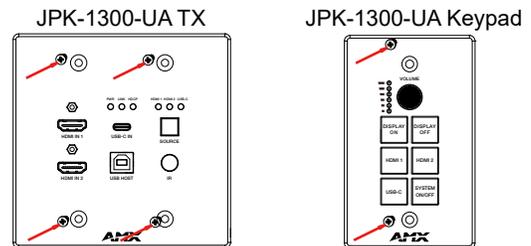
Connect Jetpack Devices

1. Connect one end of the pre-run CONTROL cable to the CONTROL port on the JPK-1300 Wall-plate TX and the other end to the CONTROL port on the JPK-1300 keypad.
2. Connect the free end of the pre-run AV LINK cable to the AV LINK port on the JPK-1300 Wall-plate TX.

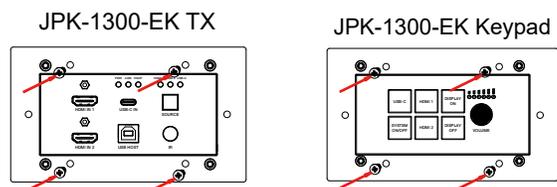### Installing Jetpack Wall-plate Transmitter and Keypad

To install the UA version JPK-1300 Wall-plate TX and Keypad:
1. Place the wall-plate TX and keypad into US standard back box.
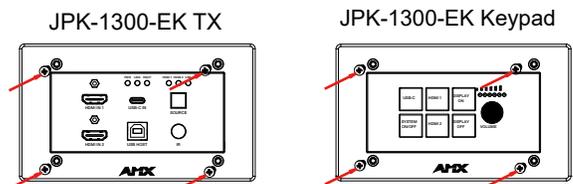2. Secure the wall-plate TX and keypad with the white screws provided, as shown below.

JPK-1300-UA TX   JPK-1300-UA Keypad

To install the EK version JPK-1300 Wall-plate TX and Keypad:
1. Remove the white screws on the cover of the wall-plate TX and keypad and remove the cover.
2. Place the wall-plate TX and keypad into an EU standard back box, and secure with the screws provided, as shown below.

JPK-1300-EK TX   JPK-1300-EK Keypad

Note: Use the two screw holes on the left and right ends to install the EK version wall-plate TX and keypad into UK standard back boxes.

3. Secure the cover back to the wall-plate TX and keypad with the white screws provided, as shown below.

JPK-1300-EK TX   JPK-1300-EK Keypad

Connecting Jetpack TX to Source Equipment

1. Connect HDMI / USB-C IN
   Connect the HDMI and/or USB-C video sources to the HDMI IN 1, 2, or USB-C port of the JPK-1300 TX.
2. Connect USB HOST
   If using an HDMI input, connect the USB HOST port on the JPK-1300 TX wall-plate to the USB port of the PC.

Basic Operations

1. Power on all the attached devices: When all are powered on, check all LED indicators on the JPK-1300 TX and RX to ensure the installation is successful. For LED indication, please refer to the instruction manual.
2. Use the SYSTEM ON/OFF button on the JPK-1300 Keypad to turn on/off the system.
   • When the system is off, press to turn on the system.
   • When the system is on, press and hold for 3 seconds to turn off the system.
3. When the system is on, press DISPLAY ON or DISPLAY OFF button on the JPK-1300 Keypad to turn the display device on or off by RS-232/IR/CEC and raise or lower the relay controlled screen.
4. When the system is on, press the HDMI IN 1, HDMI IN 2, or USB-C buttons on the JPK-1300 Keypad or the SOURCE button on the JPK-1300 TX to switch the video source. Press and hold the currently selected video source button for three seconds to mute the video output, press again to unmute. Check the video output on the display device.
5. Connect MICROPHONE or OTHER ROOM AUDIO SOURCE to MIC/LINE IN port
   • Set MIC/LINE select switch to appropriate setting for the connected source.
6. Connect AMP OUT port to 4/8 Ohm speakers using appropriate speaker cables.
   • The correct speaker impedance loading must be observed. By default, the amplifier is configured for use with 8 Ohm speakers. The Web UI or Telnet/SSH commands can be used to configure the amplifier for 4 Ohm loads if 4 Ohm speakers are required.
7. When the system is on, turn the knob on the JPK-1300 Keypad to adjust the volume, or press the knob to mute and unmute the volume.

Identify the IP Address of the JPK-1300

The default IP mode of JPK-1300 is DHCP. If there is no DHCP server in the network, the default IP of JPK-1300 is 192.168.1.2. The IP addresses of all the kits in the same network can be discovered by the PC tool. For details, please refer to the next part of this document.
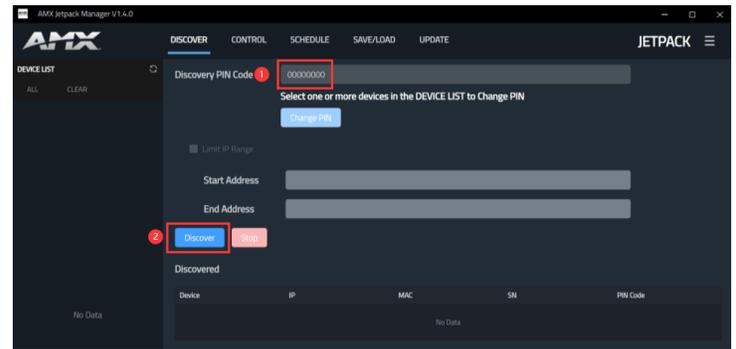
Discover the Devices through the PC Tool

Download the "AMX Jetpack Manager" from amx.com and install this application tool on the PC. Before launching this tool, connect all the JPK-1300 kits and the PC into the same network.
Launch AMX Jetpack Manager and select "DISCOVER" in the menu on the top. There are two methods to discover devices:

Method 1: Auto Discover
Enter the PIN code in the Discovery PIN Code box and click the "Discover" button to start searching for devices. The discovered devices will be displayed in the Discovered list and shown in the DEVICE LIST. Finally, click the "Stop" button to stop searching.
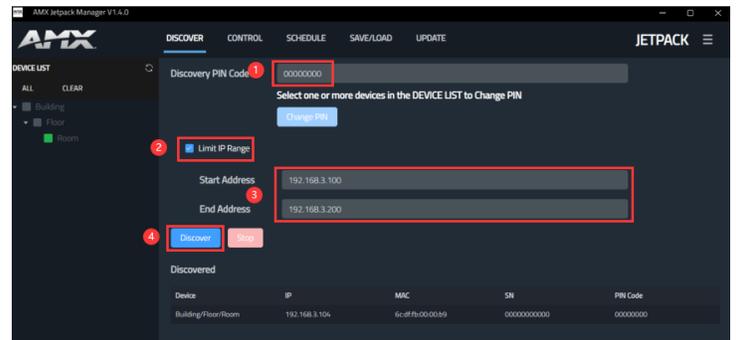**Note:**
(1) The PIN code is a string of 8 digits. (The default PIN code is 00000000.)
(2) A new PIN code can be applied on each device. To discover the devices with multiple PIN codes, please separate multiple PIN codes with spaces (for example: 00000000 00000001 00000002…).
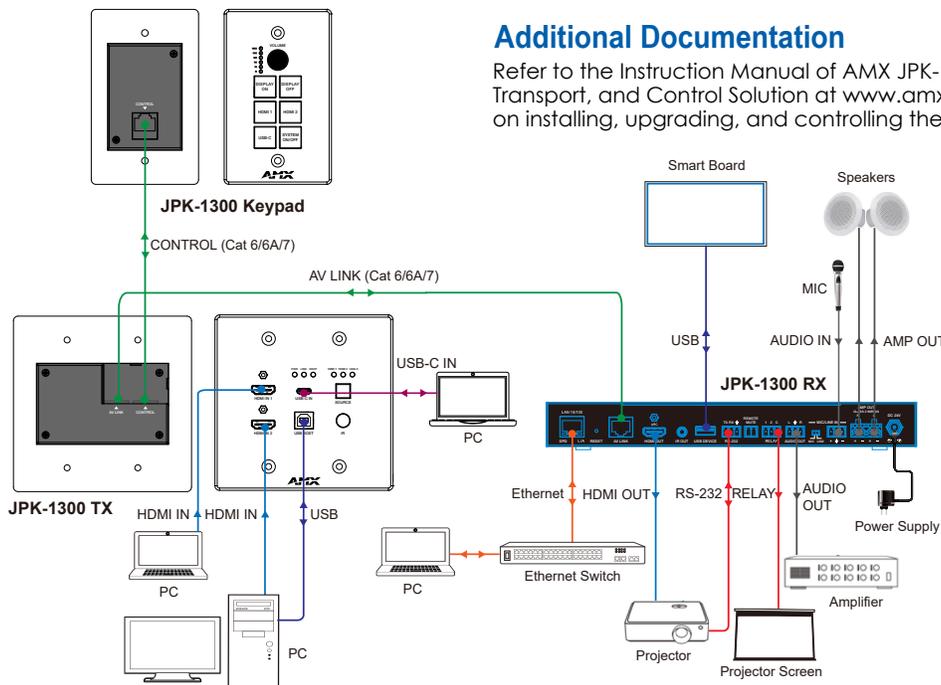

Method 2: Discover by IP
Enter the PIN code in the Discovery PIN Code box, select "Limit IP Range" and enter the IP address range with "Start Address" and "End Address". Click the "Discover" button to start searching. The discovered devices will be displayed in the Discovered list and shown in the DEVICE LIST. Finally, click the "Stop" button to stop searching.
Note: "Start Address" and "End Address" must be in the same Network segment. (The subnet mask is 255.255.255.0.)

Typical Connection Diagram

Additional Documentation

Refer to the Instruction Manual of AMX JPK-1300 Jetpack 3x1 Switching, Transport, and Control Solution at www.amx.com for additional details on installing, upgrading, and controlling the JPK-1300.