



# Installation Guide

## HPX-AV100-CS+A Hydraport Composite AV Module

### Overview

The HPX-AV100-CS+A Hydraport Composite AV Module (FG552-10) is designed to be used in conjunction with the HPX-1600 Hydraport Base Assembly. See specifications for module requirements. For more information on the HPX-1600, refer to [www.amx.com](http://www.amx.com).

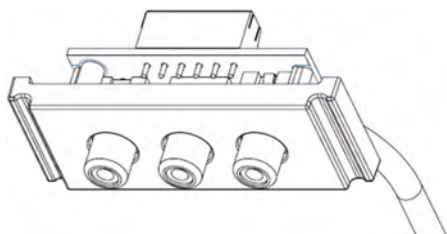


FIG. 1 HPX-AV100-CS+A Composite AV Module

The HPX-AV100-CS+A provides user-accessible Composite Video and Stereo connections on the face of the Hydraport system. The HPX-AV100-CS+A provides connection from the user's source equipment to a remote client such as projector, monitor, display or stereo sound system.

### Product Specifications

HPX-AV100-CS+A Specifications	
Dimensions (HWD)	67mm x 52mm x 40mm (2.68" x 2.05" x 1.57")
Weight:	24 g (0.85 oz.)
Enclosure:	Matt black finished face plate (Polycarbonate plastic).
Front Connections:	RCA style connections for: <ul style="list-style-type: none"><li>• Composite Video</li><li>• Left Audio</li><li>• Right Audio</li></ul>
Rear Connections:	6-Position Phoenix terminal block with connections for: <ul style="list-style-type: none"><li>• Composite Video Signal +</li><li>• Composite Video Ground -</li><li>• Left Audio Signal +</li><li>• Left Audio Ground -</li><li>• Right Audio Signal +</li><li>• Right Audio Ground -</li></ul>
Compatibility:	<ul style="list-style-type: none"><li>• HPX-1600 Hydraport Base Assembly</li><li>• RCA Style Composite Video Source</li><li>• 2 RCA style Stereo Audio Source</li></ul>
Included Accessories:	Installation Guide

### Installation

**Attention! Only a professional, AMX-qualified installer should perform this installation. Installation must conform to all local codes. This product may not be installed by the end-user.**

#### Tools Required

- Wire cutting pliers
- Wire strippers
- Small flat blade screw driver
- Phillips Screw Driver (to access Hydraport Base Assembly)

**CAUTION! Ensure that the AC Power cord is disconnected from IEC C-14 power inlet connector on the Hydraport Base Assembly prior to disassembly of the Hydraport Base assembly or installation of the HPX-AV100-CS+A Module (see FIG. 2).**

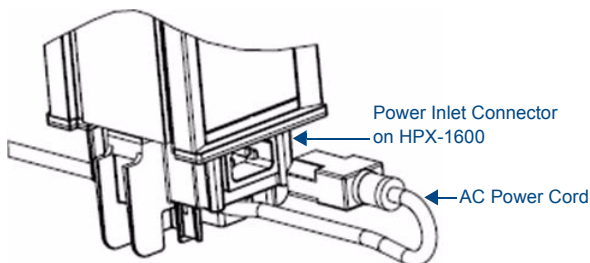


FIG. 2 HPX-1600 - Power Inlet Cord Removed

### Step 1 - Backside Termination

Before installing the module into the Hydraport Base Assembly, the backside terminations of the module must be completed. This backside termination requires connecting three coaxial cables (or equivalent) to the 6 position phoenix terminal block located on the back of the module.

Note that for terminations for which the far end of the cable is not accessible either because the cable has been run under carpet, in a conduit or structure, or is otherwise fixed, the cable must be placed through the retaining ring (note the orientation of the retaining ring) then through the mounting surface from bottom to top, then to the module - *before the module is placed into the base assembly* (FIG. 3).

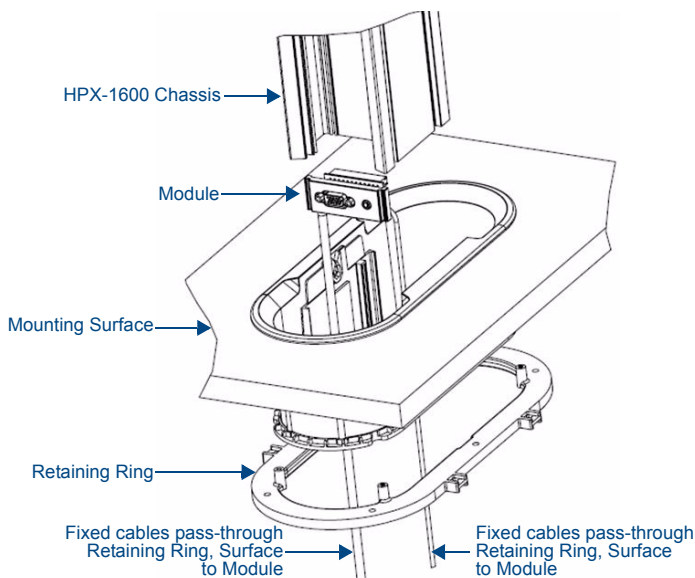


FIG. 3 Fixed Cable Passing Through Ring, Table and Into the HPX-1600 Chassis

### Step 2 - Provide a Service Loop

Ensure there is sufficient cable length to provide a service loop for the cable after the module is installed into the Hydraport Base Assembly (FIG. 4).

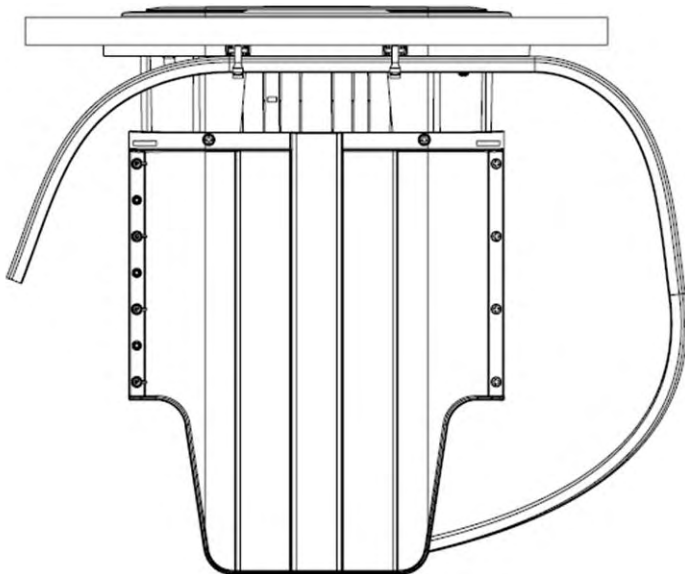


FIG. 4 Secured Service Loop

Note that the Hydraport Base Assembly travels up and down approximately 228.6 mm (9") during operation.

The service loop must accommodate this motion and provide for securing the cable to the Hydraport Base Assembly for strain relief.

For more detailed information, please refer to the HPX-1600-XX Hydraport Base Assembly Instruction Manual.

### Step 3 - Prepare and Connect Wiring

1. If using a 3-coax composite cable, remove approximately 35mm (1.35 in) of the outer jacket of the cable.
  - Remove approximately 25mm (1 in) of the outer jacket of each coaxial cable.
  - Remove approximately 4mm (.18 in) of the core wire insulation.
  - If the shielding of the coaxial cable is braided wire, twist the shield wires for each coaxial cable to a smaller diameter sufficient to fit within the phoenix terminal block.
  - If the shielding of the coaxial cable is foil with a drain wire, separate the drain wire for installation into the Phoenix terminal block.
2. Insert the shielding conductor and the signal wire for each signal (Composite Video, Left Audio, Right Audio) into the corresponding terminal.
3. Secure each connection using the terminal screw, according to the schematic provided in FIG. 5:

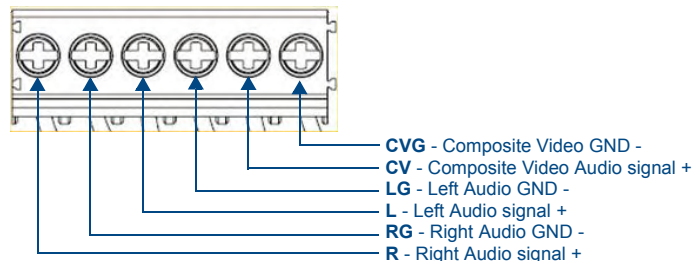


FIG. 5 HPX-AV100-CS+A Composite AV Module - Wiring Schematic

### Step 4 - Secure the Cable To the Module

Using two small provided tie wraps, secure the cable(s) to the circuit card on the backside of the module, such that the cable exits to the side of the module (FIG. 6).

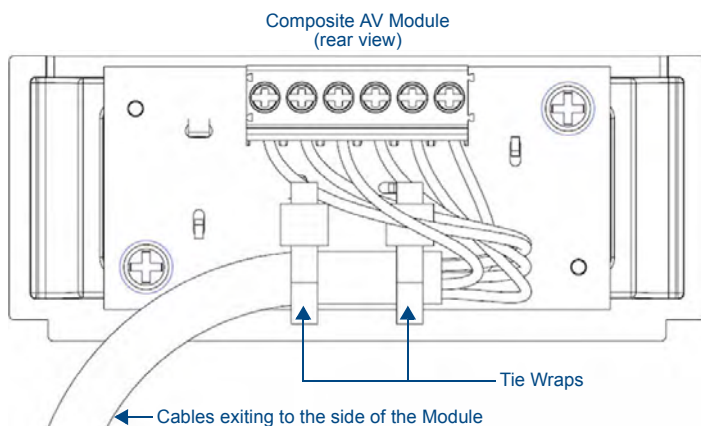


FIG. 6 Cables Secured To the Module

### Step 5 - Insert the Module Into the HPX-1600 Chassis

Insert the module into the main chassis of the HPX-1600 Base Assembly. Note the position of module interlock tab: this tab should face towards the bottom of the HPX-1600 Base assembly when installed in its mounted position (FIG. 7).

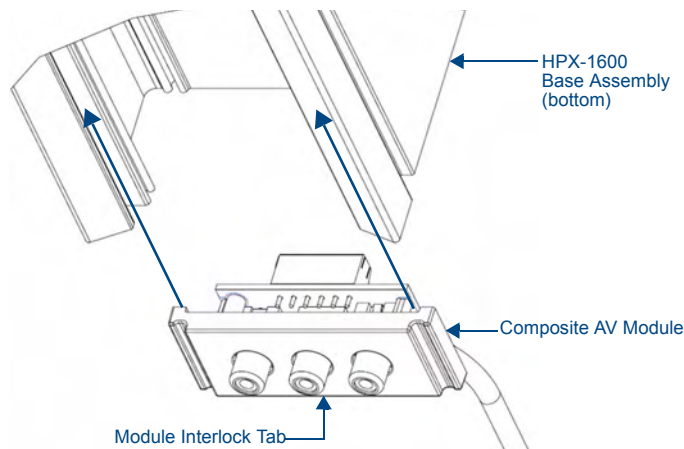


FIG. 7 Inserting the Composite AV Module into the HPX-1600 Chassis

### Step 6 - Install the Bottom Cover On the HPX-1600

**Note:** Install any remaining modules into the Hydraport Base Assembly before installing the Bottom Cover on the HPX-1600.

1. Install the bottom cover (including the Power Inlet Assembly) onto the bottom of the main frame of the Hydraport Base Assembly. The cables from the HPX-AV100-CV+A Composite AV Module as well as all other modules (except AC Power Outlets) will exit the bottom of the Hydraport Base Assembly through one of four square passages on either side of the bottom cover.
2. After the bottom cover is secured using four screws, secure the cables to the corresponding tab near each opening using a small cable tie (FIG. 8).

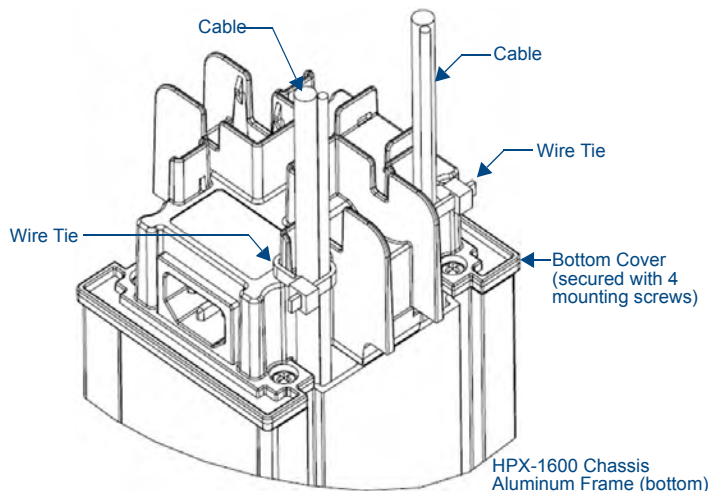


FIG. 8 Bottom Cover - Installed With Cables Exiting and Secured

