



# ABTUS<sup>®</sup>

## Product Summary

2015



**4K|2K**



**4HDBT<sup>™</sup>**  
ASE



- ▶ Interface Panel
- ▶ HDMI Solutions
- ▶ Educational Solutions

- ▶ Audio Solutions
- ▶ Room Automation Systems

**ABTUS<sup>®</sup> SINGAPORE PTE LTD**  
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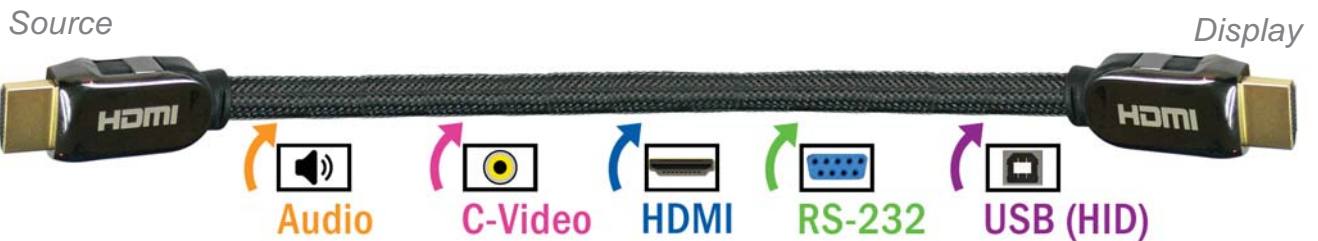
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## Single HDMI Cable Solutions



### PRODUCT FEATURES

- Single HDMI cable solution
- Supports 4K 2K resolutions
- Suitable for Interactive Projectors



## AVS-318

Integrated Projector Controller Switcher with Single HDMI Cable Output



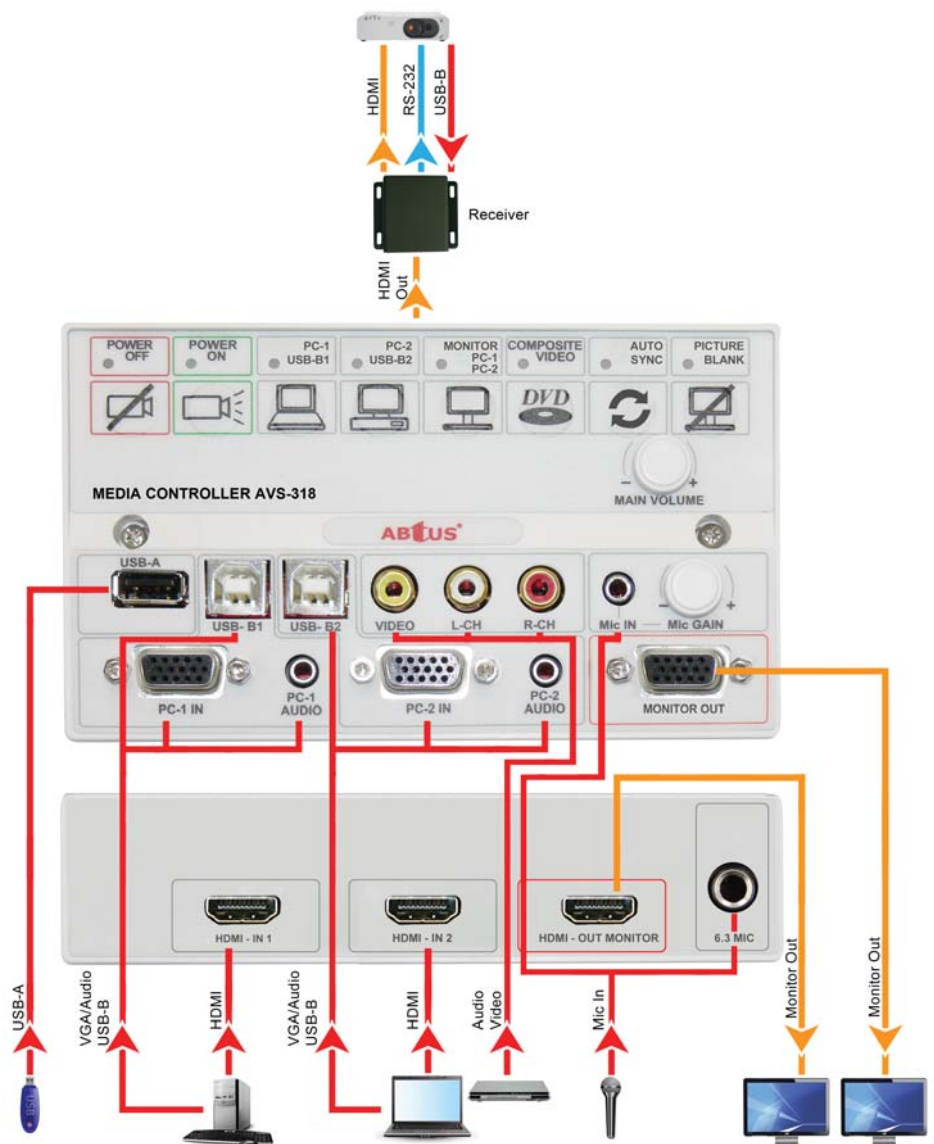
The AVS-318 is the latest Media Controller in ABtUS Educational AV.

Built with an internal scan converter, the AVS-318 is able to consolidate and convert all analog and digital video/ audio signals to digital.

The new patented design allow a single HDMI cable to carry digital video/ audio, analog video/ audio, RS-232 and USB (HID) over 20m. This helps simplify and reduce installation time.

The AVS-318 is able to support up to 4K 2K resolutions and is perfectly suitable for interactive projectors.

### Line Diagram



## Quick Installation Kit for Multimedia Classrooms



**Quick installation kit complete with high performance projector controller.**



**Ideal for any classroom/training room, board room, meeting room or multipurpose hall.**

Students, especially young children, are visual learners. Their attention span may be short and it may be difficult to spark their interest during lessons. Multimedia teaching materials can add a new dimension to a classroom and improve willingness to learn. The dynamic effect also helps engage and encourage participation which will in turn improve learning efficiencies.

To cater for the requirements of a basic multimedia classroom, ABtUS introduced EduMedia, a quick installation kit for any classroom. This comes with a customized handy box mounted to the wall for efficient cable management and easy one touch access to switch and control all the A/V equipment from the same spot. Perfect for classroom application.



**AVS-318**  
**Single HDMI Cable Solution**

- Supports 4K 2K resolutions
- Ideal for Interactive Projectors

## Multimedia Controller with Single HDMI Cable Output

### **EduMedia 318S** Classroom Installation Kit

#### 1. Multimedia Controller Switcher

- **AVS-318**



#### 2. Cables

- HDMI Cable (Male to Male)

#### 3. Projector Mount

- **AV891-610-V1** Projector Wall Mount

#### 4. Audio System

- **SPS-S030A/P1** Speaker System with Eco Digital Amplifier 30 Watts per channel





# Bluetooth Wireless Microphone

## BTM-S05T & BTM-S06R

### VOICE ENHANCEMENT SYSTEM



Receiver

Transmitter



Play music from phones & tablets through bluetooth



#### Transmitter

**BTM-S05T (3.5mm Mic)**  
**BTM-S06T (XLR)**

#### Receiver

**BTM-S06R (6.3mm Mic)**



#### Bluetooth Wireless Microphone

- Max. Distance: up to 30m
- Battery life: up to 8 continuous hours
- Quick pairing (<2 seconds)

#### Optional Accessories:



Microphone



Headset



Clip On Microphone



Ear Worn Microphone



Carrying Pouch

#### Applications:



Classroom



Lecture/Seminar



Outdoor Events



## PWR-DA09C/IP

POWER SEQUENCER WITH MONITORING CAPABILITIES



### TECHNICAL SPECIFICATION

- Multi-Stage surge protection
- Controllable via IP
- Allow monitoring of voltage, current, power factor and frequency
- Able to cut supplied power active, voltage and temperature when the temperature exceed the preset limit
- 8 switched outlets (rear) and one pass through un-switched outlet (front)
- 12VDC supply (BNC) allow any gooseneck lamp or LEDs that provides a cool running source for the rack.

## PWR-DA09C/PG

SEQUENCED OUTPUT POWER CONDITIONER (8 DELAY +1) 16 AMP



### TECHNICAL SPECIFICATION

- Multi-Stage surge protection
- Linear Filtering Technology
- Front panel power status LEDs
- External I/O allow remote operation
- 8 switched outlets (rear) and one pass through un-switched outlet (front)
- 12V DC supply (BNC) allow any gooseneck lamp or LEDs that provides a cool running source for the rack.

## PWR-DA09C/P

SEQUENCED OUTPUT POWER CONDITIONER (8 DELAY +1) 10 AMP



### TECHNICAL SPECIFICATION

- Multi-Stage surge protection
- Linear Filtering Technology
- Front panel power status LEDs
- External I/O allow remote operation
- 8 switched outlets (rear) and one pass through un-switched outlet (front)
- 12V DC supply (BNC) allow any gooseneck lamp or LEDs that provides a cool running source for the rack.

## PWR-DA06C

ECO ENERGY SAVING AC/DC POWER SEQUENCER WITH RS-232/485 CONTROLS



### TECHNICAL SPECIFICATION

- Programmable sequencing delay ON/OFF through RS-232
- Integrated with RS-232 and RS-485 for external controls
- 6 DC outputs with 2 AC outputs

## AVC-HDA11/AP4

HDMI AUDIO EXTRACTOR

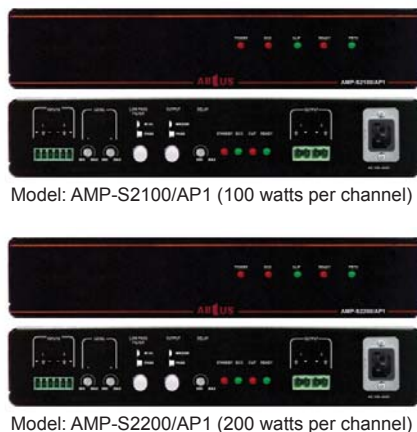


### TECHNICAL SPECIFICATION

- Extract audio from HDMI
- Support SPDIF (digital optical fiber and coaxial) audio output and support R/L (simulate audio interface).
- Support up to 4K 2K resolutions
- Support HDMI (input & output) formats : DTS-HD/Dolby-trueHD LPCM7.1/DTS/Dolby-AC3/DSD

## AMP-S2100/AP1 & AMP-S2200/AP1

MIXER AMPLIFIER - 100W + 100W / 200W + 200W



### TECHNICAL SPECIFICATION

- Output power of 100W (AMP-S2100/AP1) or 200W (AMP-S2200/AP) per channel
- Powered with switching power adaptor for maximum power efficiency
- Integrated with Class-D digital amplifier with low power consumption
- Integrated with input signal sensing with Auto Power ON/OFF (Adjustable delay time)
- Convection cooling, fanless operation
- Ultra low inrush current - no need for power sequencing
- Low pass filter (Selectable)

## IFP-AMP-S025A

MODULAR CLASS D MIXER AMPLIFIER - 25 WATTS PER CHANNEL



### TECHNICAL SPECIFICATION

- Integrated with 3 stereo channels selections
- Class D Amplifier
- Main Volume (VR) control with button for input selection
- Output power of 25W per channel (\*based on 4 ohm speaker)
- Speaker impedance : 4 to 16 ohm

# HDMI Splitter

## AVA-HDMI181/AP4

1:8 HDMI SPLITTER WITH HDMI LOOP OUT



### TECHNICAL SPECIFICATION

- Allows connection of 1 High Definition source to 8 HD display
- Supports resolutions 4K 2K
- With HDMI loop out for Daisy Chain





## HDBT-GAHD31T/AP1 & HDBT-GAHD31R/AP1

HDBaseT EXTENDER (Display Port / HDMI / VGA)



Model: HDBT-GAHD31T/AP1



Model: HDBT-GAHD31R/AP1

### TECHNICAL SPECIFICATION

- Supports up to 4K 2K resolutions
- Scaled video output
- Extends Display Port /HDMI /VGA up to 70m



## HDBT-HDX11T/AP1 & HDBT-HDX11R/AP1

HDBaseT EXTENDER



Model: HDBT-HDX11T/AP1



Model: HDBT-HDX11R/AP1

### TECHNICAL SPECIFICATION

- HDBaseT over CAT-5/6/7
- Supports 4K 2K resolution
- Multi Channel Audio, IR (bi-directional) and RS-232 over Single CAT-5/6/7 up to 70m



## IFP-HDMI11T-G & IFP-HDMI11R-G

HDMI OVER CAT-5 WALL PLATE EXTENDER (DUAL CAT-5 OUTPUTS)



Model: IFP-HDMI11T-G



Model: IFP-HDMI11R-G

### TECHNICAL SPECIFICATION

- Support HDMI Deep Color & 3D
- HDCP compliant
- Extends HDMI signals up to 50m over CAT5e at 1080p @ 60Hz
- Purely unaltered uncompressed 7.1ch digital HDMI transmission
- Embedded IR pass-through from RX to TX to control source device
- Minimizes the cable skew with an adjustable 8-level equalization control
- Easy installation with wall-plate mounting design

## MAX-HDX408A/IP1

4 × 4 HDMI MATRIX



### TECHNICAL SPECIFICATION

- Support up to 4K 2K resolutions
- HDCP compliant
- Support default EDID & learns the EDID of displays
- Supports bi-directional IR & RS-232
- Ethernet control
- Extends HDMI signal up to 50m over single CAT-5 up to 1080p @ 60Hz

## MAX-HDX816A/IP1

8 × 8 HDMI MATRIX



### TECHNICAL SPECIFICATION

- Support up to 4K 2K resolutions
- HDCP compliant
- Support default EDID & learns the EDID of displays
- Supports bi-directional IR & RS-232
- Ethernet control
- Extends HDMI signal up to 50m over single CAT-5 up to 1080p @ 60Hz

## CAT-HDX11R/AP1

RECEIVER FOR HDMI MATRIX



### TECHNICAL SPECIFICATION

- Support up to 1080p @ 60Hz
- Bi-directional IR path
- Extends video signal up to 50m over single CAT5/6/7
- HDCP compliant

## MAX-HDBT0909A/IP1

HDBaseT MATRIX



### TECHNICAL SPECIFICATION

- Support 4K 2K resolution
- Extends video signal up to 100m (305 feet) over HDBaseT
- Power over command
- Supports default HDMI EDID and learns the EDID of displays
- Fast response time - 2~5 seconds for channel switch
- HDCP compliant





# Room Control System

## Touch Panel Control System



### Touch Control Panel



**A934-212C-044**  
Touch Screen Control System

- With 1 × RS-232 or 1 × RS-485 selectable and 1 × RS-232
- Macro definitions setting can be assign for every single button up to 16 different order
- Default 3 × 4 matrix of 12 touch buttons

### Control Modules



**A934-001R-120**  
Single Relay Power Control Module

- Max load capacity of 1000W per module
- With delay timer Off function (delay timing 2 to 128sec)



**A934-001D-121**  
Dimmer Control Module

- Max load capacity of 600W per module
- Dimmer Ramping time (2 to 128sec)



**A121-002R-100**  
Two Port Power Control Relay Module

- Max load capacity of 1000W per module
- Delay timer off function (delay timing 2 to 128sec)



**A934-485M-100**  
RS-232 - RS-485 Converter

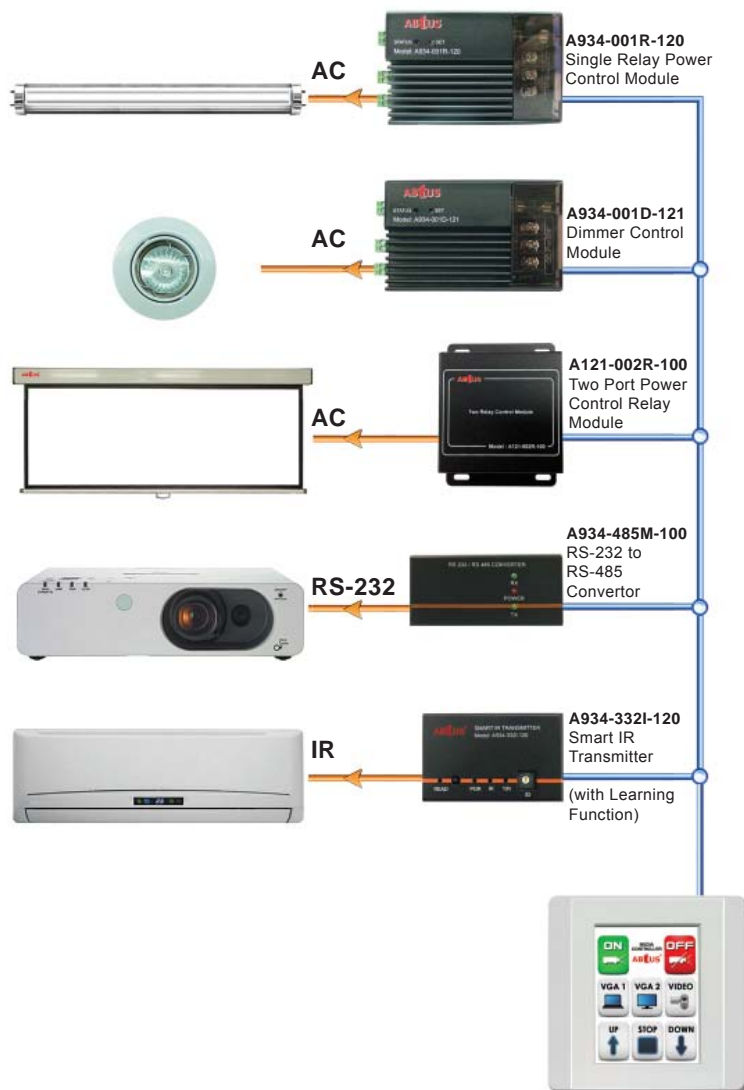
- Require only the use of RS232 the RXD, TXD, GND signal line
- Automatically convert RS232 to RS485 and vice versa with delay



**A934-332I-120**  
Smart IR Transmitter (with Learning Function)

- Powerful IR learning, ability to learn all kinds of IR codes and also simultaneously record it's carrier frequency
- Memory: record up to 32 IR codes in different formats

### Line Diagram



# Modular Interface Panel

## Sturdy Metallic Finish



Model: **IFP-600 Series**

- Customizable Modules for added flexibility
- Integrated with individual control button for convenient one touch switching & controls
- Simple Plug & Play
- Available in Single & Double Gang

## Versatile and customizable modular interface panel All you need to prepare your room for multimedia projection.

Fanciful and sophisticated multimedia system may not be found in all meeting room. ABtUS recognised the needs for basic yet effective AV equipment that can perform it's task flawlessly without unnecessary extravagant. Hence, the ABtUS modular interface panel is an ideal alternative in such installations.

The IFP-600 series of modular interface panel comes in both UK (86mm x 86mm) and US (70mm x 114mm) single and double gang sizes that could hold 1, 2 or 4 modules per plate respectively. ABtUS also offers a wide selection of modules for added flexibility. From the common video signal I/Os of VGA, HDMI and display port, USB interactivity connections, power sockets to modular amplifiers, users and installers is sure to be able to create a solution that meets their specific needs.

Another great feature of these modules is that it comes with an option to include an individual control button to each module. These control buttons are convenient and simple to use. With just a touch of the button, users can switch around and toggle between inputs. Even turning on and off the projector can be done by simply pressing and holding on to the button.

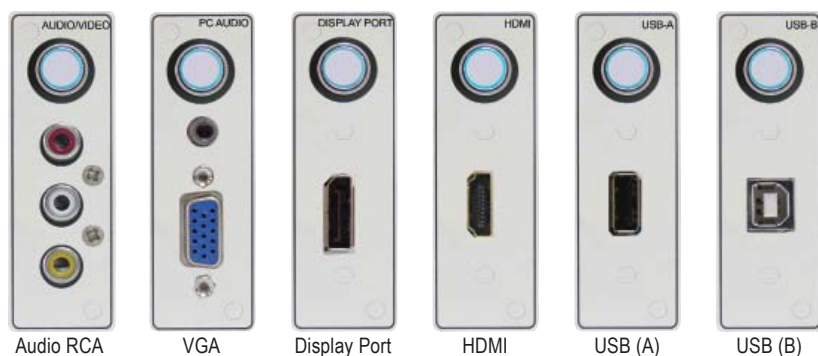


*Modular panel with control*

# Modular Interface Panel

## Integrated with Individual Control Buttons

### Modules with Control



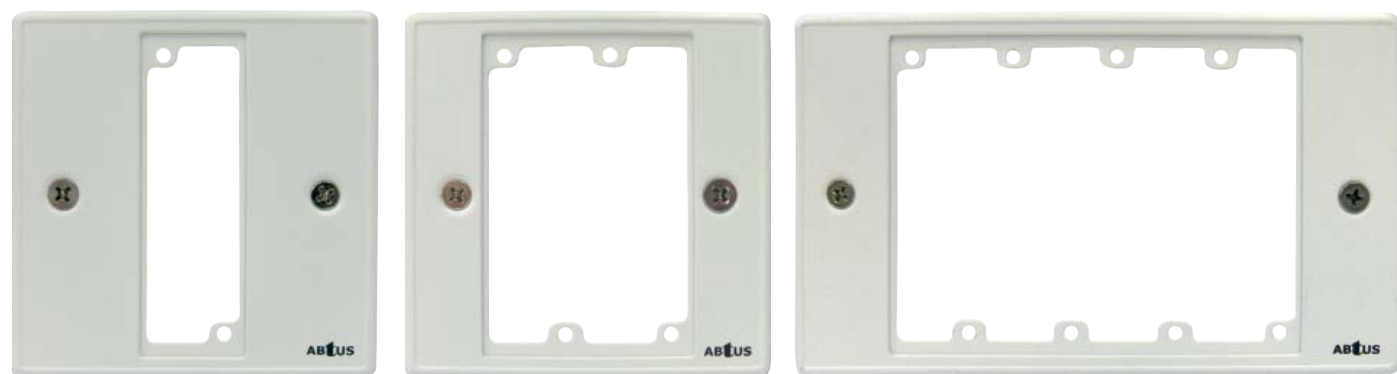
### Modules with Built-in Buffer



### Modules without Control



### Module Front Metal Plate





## ❖ Projector/Multimedia Controller Switchers



**AVS-SSR8/1**  
Projector & Motorized  
Screen Controller

**AVS-316**  
Multimedia Projector Controller  
Support 2 HDMI

**AVS-317**  
Multimedia Projector Controller  
Support 2 HDMI & USB

**CAT-AVS-409**  
Multimedia Projector Controller  
Single CAT-5 output

**A934-212C-044**  
Touch Screen Control System

## ❖ CAT-5 Extenders and Optic Fibre Extenders



**CAT-GA11T/A & CAT-GA11R/A**  
VGA/Audio over CAT-5  
Transmitter & Receiver  
(150 m)

**CAT-GA11R/AP3, CAT-GA111R/AP3 & CAT-GA11MT/AP3**  
VGA/Audio over CAT-5 Transmitter & Receiver  
(300 m)

**CAT-HDX11T/AP2 & CAT-HDX11R/AP2**  
HDMI over Single CAT-5 Extender  
(Tree Chain) (100 m)

**OPT-HDX11MT/A1 & OPT-HDX11R/A1**  
HDMI over Plastic Optic Fiber  
Extender (Up to 650m)

## ❖ Scaler Switchers



**AVS-SCL402/AP3**  
4:1x2 Multimedia Presentation Scaler Switcher  
with DVI Out

**AVS-SCLHD1002/AP2**  
10:1x2 High End Multimedia Presentation Scaler Switcher  
(\*with DVI Outputs)

**\* with CAT - 5 Extender Built-In**

**AVS-SCLHD1002T/AP1**  
10:1x2 High End Multimedia Presentation Scaler Switcher  
(\*with CAT - 5 Extender Built-In)

## ❖ Matrix Switchers



**MAX-GA33A/P**  
3x3 VGA/Stereo Audio  
Matrix Switchers

**MAX-GA42A/P**  
4x2 VGA/Stereo Audio  
Matrix Switchers

**MAX-HDMI42/AP4**  
4x2 HDMI Matrix (\*V1.4)

**MAX-HDMI408A-G**  
4x4 HDMI Matrix  
(with dual output)

**MAX-HDMI816A-G**  
8x8 HDMI Matrix  
(with dual output)

## ❖ Audio Systems



**AMP-S025A**  
ECO Digital Mixer Amplifier  
(25 Watts per channel)

**AMP-S040/AP1**  
ECO Digital Mixer Amplifier  
(40 Watts per channel)

**SPS-S030A/P1**  
ECO Digital Amplifier System  
(30 Watts per channel)

## ❖ Power Sequencers



**PWR-DA09C & PWR-DA09C/PG**  
AC Power Sequencer 8 port + 1 Loop out  
(10AMP & 16AMP)

**PWR-DA06C**  
Energy saving AC/DC Power Sequencer  
with RS-232/485 controls

## ❖ HDMI Distribution Amplifiers & Switchers

**4K 2K**



**AVA-HDMI12/AP4**  
1:3 HDMI (\*V1.4)  
Distribution Amplifier

**AVA-HDMI14/AP4**  
1:4 HDMI (\*V1.4)  
Distribution Amplifier

**AVS-HDMI21/AP4**  
2:1 HDMI Switcher (\*V1.4)

**ABTUS®**

