

Crestron  
DMPS .AV Framework™ Base Software  
Operations Guide



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# DMPS .AV Framework Base Software

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## Introduction

The Crestron® DMPS3 Series of DigitalMedia™ Presentation Systems comes with the built-in .AV Framework™ Base Program that enables complete system configuration and control.

The latest version of the program and all projects are available on the product page for each DMPS3 model. The zipped package file includes the following:

- The .AV Framework Base Program
- The TSW-752 .AV Framework Project
- The Xpanel .AV Framework Project and installer files for Macintosh® and Windows®
- The iPad® .AV Framework Project

A special version of the TSW-752 Touch Screen (TSW-752-B-DMPS3 PAK KIT) is available for use with the DMPS3 Series, which provide a simple and elegant interface.

## Interface Setup

This section provides information on how to connect each interface to the control system.

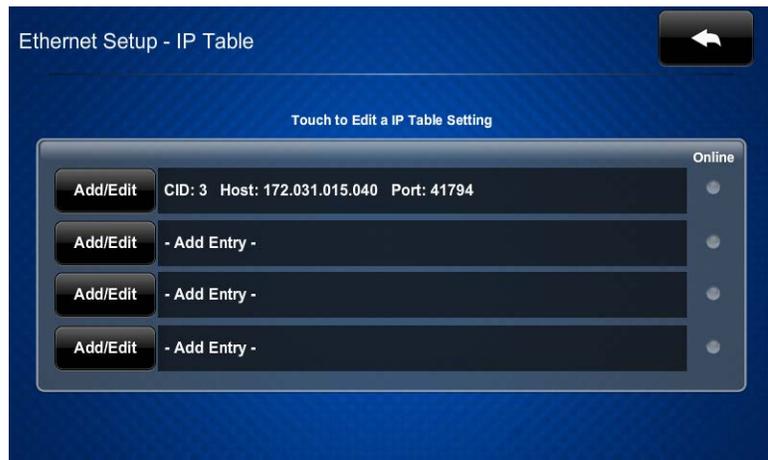
### TSW-752

To connect a TSW-752, use the following procedure:

**NOTE:** The .AV Framework Base Program requires IP ID 03 from the TSW-752. Out of the box, the value should already be set.

1. On the **Setup** menu, touch **IP Table Setup** to display the **Ethernet Setup – IP Table** menu. The **Ethernet Setup – IP Table** menu displays up to four IP table settings, each of which has an **Online** indicator.

#### *Ethernet Setup – IP Table Menu*



2. To add or edit an entry, touch the **Add/Edit** button to its left. The **Ethernet Setup – Edit IP Table Entry** screen is displayed

#### *Ethernet Setup – Edit IP Table Entry Screen*



3. Touch the field below **CIP ID** to display the on-screen hex keypad.

*Edit CIP ID Screen*



4. Use the keypad to make the new entry. Touch **Save** to save a new entry or  to return to the **Ethernet Setup – Edit IP Table Entry** screen.
5. Touch the field below **IP Address/Hostname** to display the on-screen keyboard.

*Edit IP/Host Screen*



6. Enter the IP address or hostname of your DMPS control system using the on-screen keyboard. Touch **Save** to save a new entry and return to the **Ethernet Setup – Edit IP Table Entry** screen. Touch **Cancel** to return to the **Ethernet Setup – Edit IP Table Entry** screen.
7. On the **Ethernet Setup – Edit IP Table Entry** screen, touch **Save Entry** to save the current entry or **Delete Entry** to clear it.

## Crestron App for iPad (CRESTRON-APP-PAD)

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**NOTE:** The form at [www.crestron.com/crestronmobilesetup](http://www.crestron.com/crestronmobilesetup) should be completed by an authorized Crestron installer if the customer is to configure the device. Upon completion, the instructions in this guide are e-mailed to the customer to provide assistance with the installation and startup of the app from the device.

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To connect with the Crestron App for iPad app, use the following procedure:

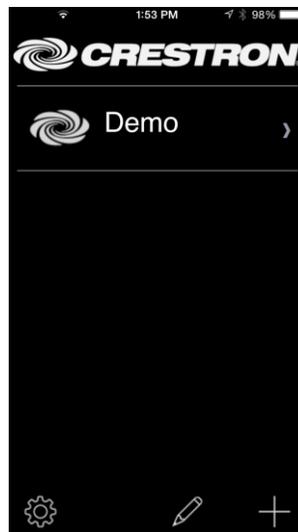
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**NOTE:** The .AV Framework Base Program requires IP ID 04 from this app.

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1. On the home screen, tap the Crestron swirl logo to start the app. A list of systems is displayed. When configuring the app for the first time, the screen appears empty.

### *Home screen*



2. Tap + to configure a system. The **Add Location** screen is displayed.

*Add Location Screen*

3. In the **Address 1 (Typically Local LAN)** section, enter the configuration information for a Wi-Fi® connection.
  - Tap the **Friendly Name / Location** field and enter the name or location of the DMPS system to be connected. The field is for user reference only and is not a host name.
  - If the iOS® device is to host the project, tap **Use Local Project** until **ON** is displayed. If using the control system to host the project, tap **Use Local Project** until **OFF** is displayed.
  - Tap the **Host Name or IP Address** field, and enter the host name or IP address of the DMPS system.

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**NOTE:** If using DHCP, enter a host name rather than an IP address as the DHCP server may change the IP address periodically.

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  - Tap the **HTTP Port** field and ensure it is set to 80.
  - Tap the **IP ID** field and ensure it is set to 04.
  - Tap the **CIP** field and ensure it is set to 47194.
4. Tap **Save**. The setup screen is displayed, listing the control system that has been added.

## XPanel

To connect with XPanel, use the following procedure:

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**NOTE:** The .AV Framework Base Program requires IP ID 05 from XPanel.

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1. Install XPanel by running **Crestron XPanel installer.air** (for Macintosh) or **Crestron XPanel installer.exe** (for Windows).
2. Launch the XPanel project by double-clicking **dmps\_autoconfiguration\_xpanel\_XX.c3p**.
3. Access the configuration screen by selecting **Options > Host Settings**.
4. Enter the IP address of the control system and set the IP ID to 05.

### Configuration Screen

## Fusion RV

### Connect

To connect with Fusion RV<sup>®</sup>, use the following procedure:

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**NOTE:** The .AV Framework Base Program requires IP ID F1 from Fusion RV.

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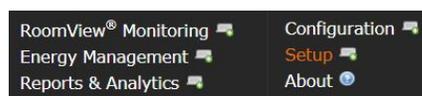
1. Log in to Crestron Fusion<sup>®</sup>.
2. From the Crestron Fusion header tab, click **Open**.

### Crestron Fusion Header Tab



3. From the pull-down tab, click **Setup**.

### Pull-Down Tab



- Click the + symbol next to the **Root** node to expand the tree. Click the **Rooms** node to expand the tree again.

#### Root Node



- Click **Add**. From the drop-down list, click **Add Room**. The **Add – Room to Root** dialog box opens.

#### Add Drop-Down List

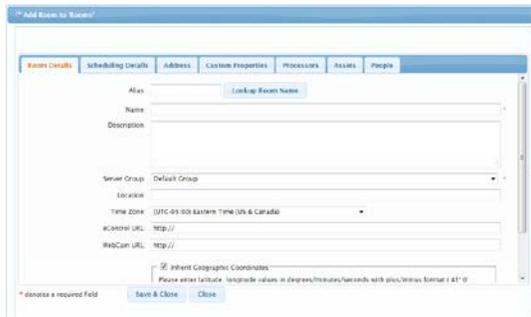


#### Add – Room to Root Dialog Box



- Click **Add room without template** and then click **OK**. The **Add Room to 'Rooms'** window opens with the **Room Details** tab selected.

#### Room Details Tab



- Enter information into the required fields as indicated by the red asterisks. Enter optional information as desired.
- Click the **Scheduling Details** tab.
- In the **Server Access** field, select **RoomView Calendar** from the drop-down list.

**NOTE:** The user can change to another scheduling calendar at a later time.

- Click the **Processors** tab and then click **Add**. The **Add Processor to 'Room'** dialog box opens.

*Processors Tab**Add Process to 'Room' Dialog Box*

11. Enter information into the required fields as indicated by the red asterisks. Enter optional information as desired.

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**NOTE:** If the **Discover Symbols** check box is selected in the **Add Processor to 'Room'** dialog box and the control program symbol being used is version 7.2 or higher, the Symbol Discover feature automatically imports the symbol information into the Crestron Fusion database.

**NOTE:** In SystemBuilder™, the Symbol Discover feature is not supported on symbols below version 7.2.

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12. Click **Save & Close** to return to the **Processors** tab.

### **Control and Monitor**

Room monitoring and control in Crestron Fusion use the following attributes:

#### **Controls (Read/Write)**

Type	Function
Digital	System On
Digital	System Off
Digital	System Mute Toggle

#### **Monitors (Read Only)**

Type	Function
Digital	System Power
Digital	System Muted
Analog	Program Volume Level
Serial	Fusion Error Msg
Serial	Fusion Log Text
Serial	Input 1 Source Name
Serial	Input 2 Source Name
Serial	Input 3 Source Name
Serial	Input 4 Source Name
Serial	Input 5 Source Name
Serial	Input 6 Source Name
Serial	Input 7 Source Name
Serial	Input 8 Source Name
Serial	Input 9 Source Name
Serial	Input 10 Source Name

Monitor the assets connected to the system using the following attributes:

#### **Displays 1-4 (Read Only)**

Type	Status
Digital	Display Power
Digital	Display Online
Digital	Display Offline Timeout Alert

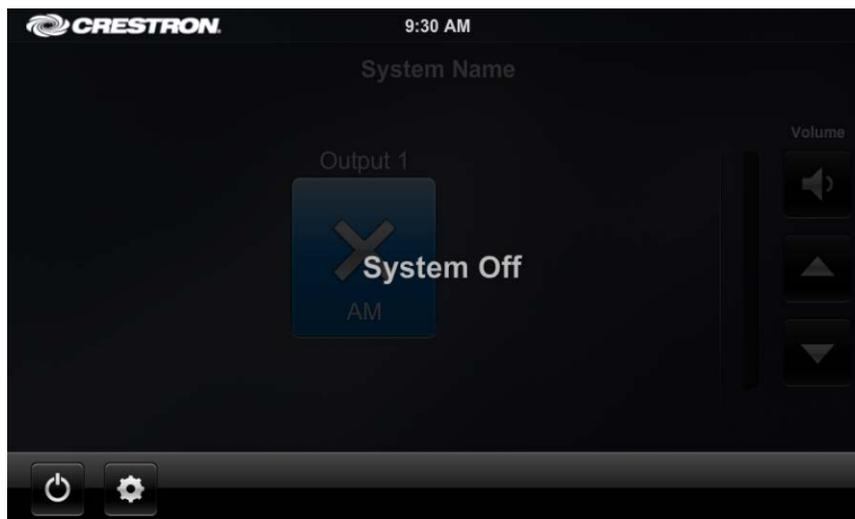
#### **Touch Screen (Read Only)**

Type	Status
Digital	Touch Screen Online

## System Configuration

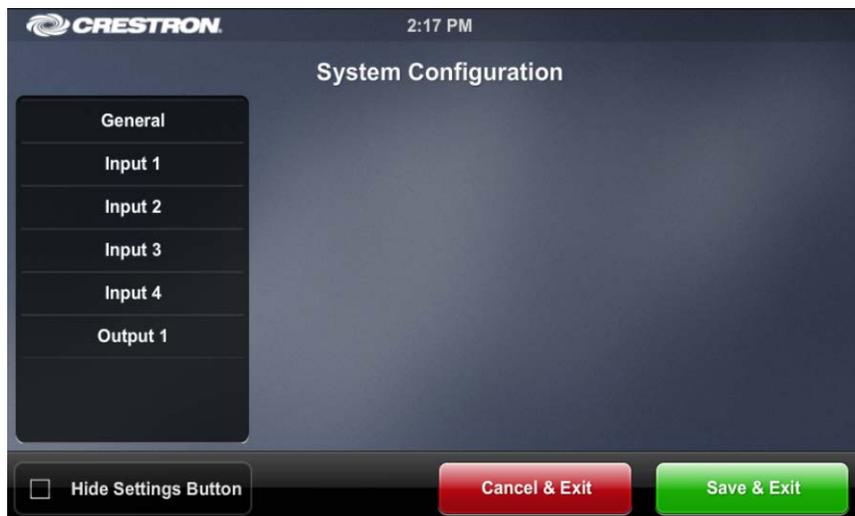
Once connected to a DMPS, prior to setup, the initial screen appears as shown in the following illustration.

### Initial Screen



Touch the  (gear) icon to the right of the  (power) button to display the **System Configuration** menu. If the gear icon is not visible on the main screen, touch and hold the bottom right corner of the screen for 10 seconds to display the **System Configuration** menu.

### System Configuration Menu



The **System Configuration** menu contains buttons to select the appropriate configuration screen. There is a **General** entry, plus an entry for each input and output.

The menu also contains a **Hide Settings Button** check box which, when checked, hides the gear icon normally visible to the right of the power button, in the lower left corner of the main screen.

Touch **Cancel & Exit** to return to the main screen without changing any settings. Touch **Save & Exit** to save all changes before returning to the main screen.

## General

Touch **General**, and then use the **Name** text box to enter the system name you want to display on the main screen.

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**NOTE:** When the text box is touched, an on-screen keyboard appears on the bottom of the screen and a **Dismiss Keyboard** button becomes visible. Touch **Dismiss Keyboard** to remove the keyboard from the screen.

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### *System Configuration – General Screen*



## Input

Touch one of the input buttons to adjust the input's settings.

### *System Configuration – Input 1 Screen*



Use the **Name** text box to enter the input name you want to display on the source selection screen (refer to page 15).

The **Enabled** check box determines whether this input is displayed on the source selection screen. By default, the box is checked to enable the display of this input.

Touch the **Icon** button to display the icon selection screen.

### *Icon Selection Screen*



Swipe the array of icons (left or right) to move through the list. Touch an icon to assign it as the icon for the selected input.

## Output

Touch **Output 1** to adjust the settings of Output 1.

### System Configuration – Output 1 Screen




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**NOTE:** The screen above shows only one output. If a unit has multiple outputs, those outputs are also available for selection and configuration.

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Use the **Name** text box to enter the output name you want to display on the main screen.

The **Enabled** check box determines whether the output is displayed on the main screen. By default, the box is checked to enable the display of the output.

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**NOTE:** There must be at least one enabled output. On DMPS units with only one output, it cannot be disabled.

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The **Allow Audio** check box determines whether audio is sent to the display as well as to the program output. By default, the box is not checked, so audio is sent only to the program output.

Use **Display Type** to select the type of display being used.

When a display is selected, the DMPS sends a power command to turn the display on or off with the system. The Display Power On command is sent when a source is selected. The Power Off command is sent after the system shutdown is confirmed.

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**NOTE:** The power commands are sent via RS-232 using either the output of the “DM Roombox” or the COM A port on the DMPS. Both outputs are active simultaneously, but to prevent feedback loops, only one at a time can be connected.

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## Program Setup

### Main Screen

The main screen is shown below. Touch the  (power) button to turn on the DMPS.

#### Main Screen



The **Audio** check boxes are used to select the audio for the room. Check the box under the source to route its audio to the outputs. (If there is only one output, there is no **Audio** check box.)

The right side of the main screen contains the volume controls and a volume gauge to provide visual indication of the volume setting. The audio mute control toggles between off and on, as shown in the first two illustrations below. The volume up and down controls adjust the program audio level.



Audio mute toggle (in off position)



Audio mute toggle (in on position)



Volume up control

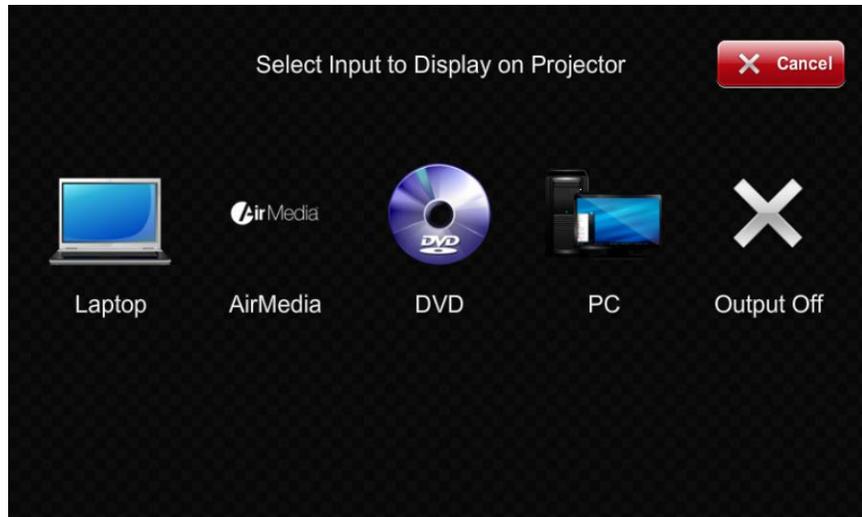


Volume down control

## Source Selection

Touch the output button (in this example, the output button is assigned the name “Projector”) to display the source selection screen.

### *Source Selection Screen*



All enabled inputs are shown on this screen. Touch an input to route its video to the output while the associated audio is routed to the program output.



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**Operations Guide – DOC. 7646C  
(2040690)**

**11.14**

Specifications subject to  
change without notice.