

# QMC-DCP-SW Software Guide

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## REVISION HISTORY

<u>REVISION</u>	<u>DESCRIPTION</u>	<u>DATE</u>
1.0	First Release	Jul 08
1.1	Added section 4 on Operation and section 5 on button commands	Aug 08

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## **1. OVERVIEW OF QMC-DCP SOFTWARE**

The QMC-DCP software enables the user to control a media keyer device using the QMC-DCP interface.

### **Requirements:**

The minimum PC requirements for the QMC-DCP Software:

- Pentium 4 class machine
- CD-ROM
- 512MB RAM
- 100Mb Ethernet card with TCP/IP configured
- 32MB Video card, 1024x768 screen resolution (64MB Video Card recommended)
- Windows2000 SP4, Windows XP, or Windows Server 2003

## 2. INSTALLATION

### 2.1. INSTALLING THE SOFTWARE

The QMC-DCP software will be shipped on a CD with your QMC-DCP.

1. To launch the QMC-DCP software, load the CD into your PC and run the setup file by double clicking the executable QMC-DCP-SW icon.

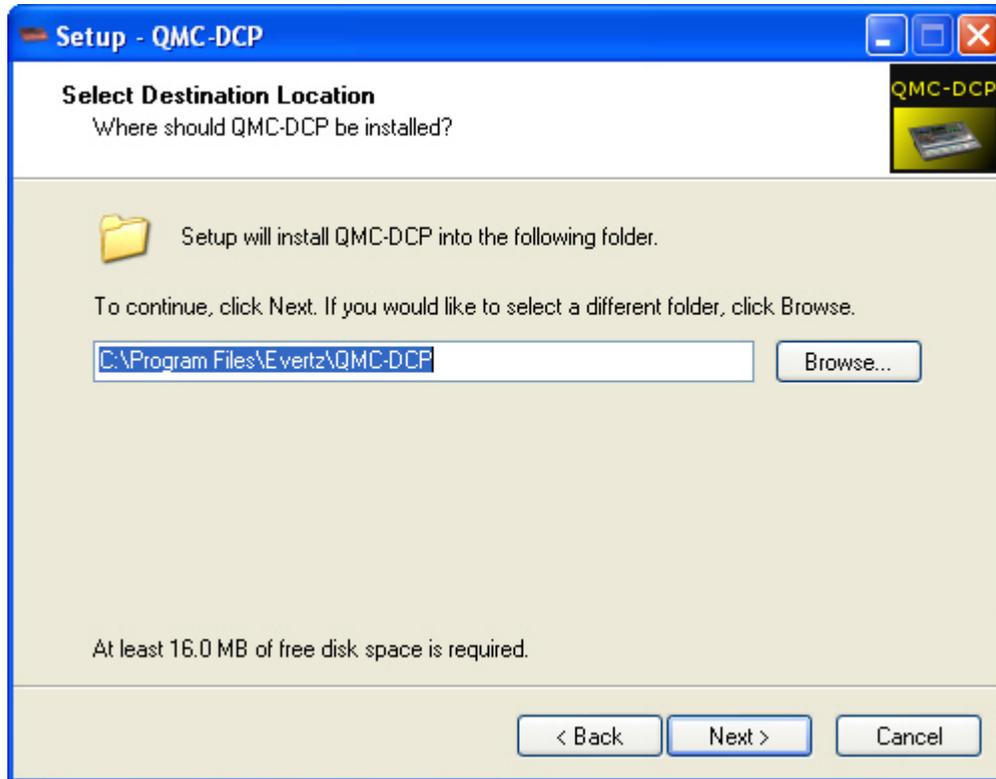


2. The executable file will launch a series of setup screens.
3. The user will be presented with a Welcome screen, which will identify the version of software being installed. Click the **Next** button to continue.



Figure 2-1: Welcome Setup Screen

4. A **Select Destination Location** screen will appear enabling the user to select the desired location to which the program will be installed. Browse to the appropriate directory and then select the **Next** button.



**Figure 2-2: Select Destination Location Screen**

5. The **Select Start Menu Folder** screen enables the user to define the location that the application will be placed in the Start Up menu. Select the **Next** button to continue.

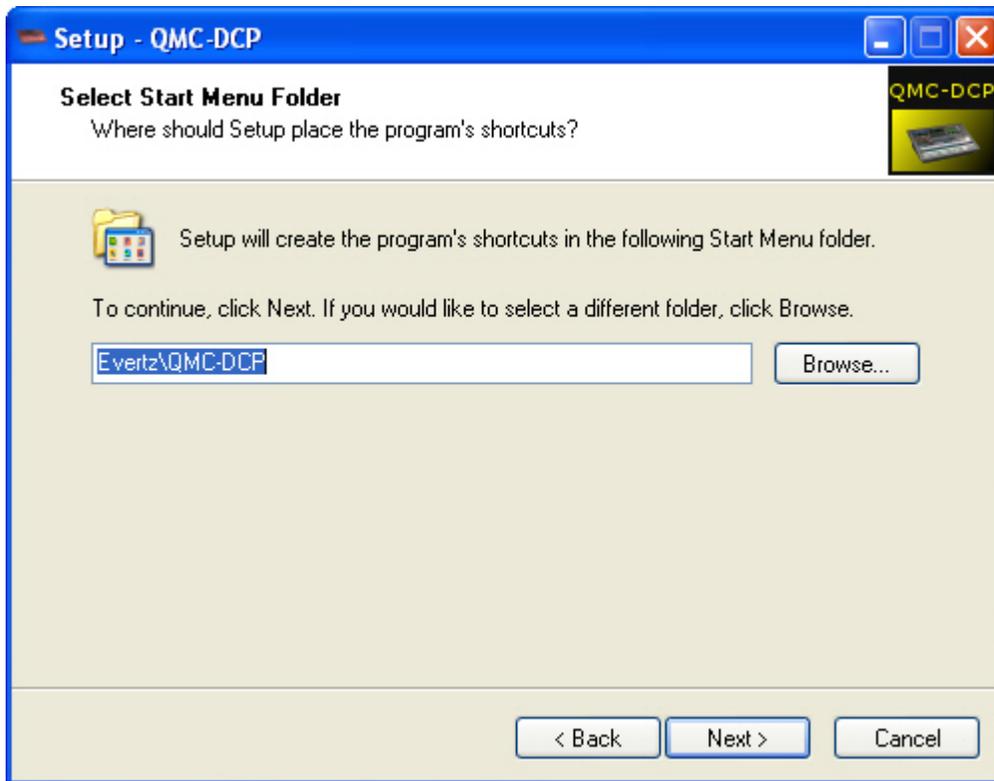
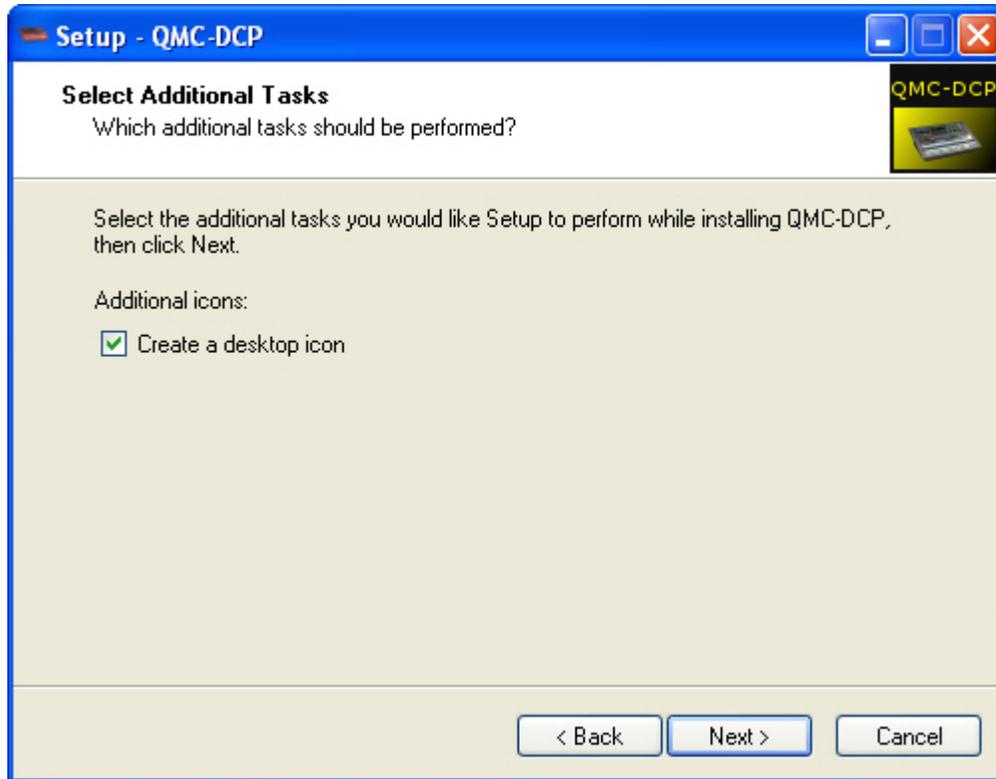


Figure 2-3: Select Start Menu Folder Screen

6. The **Select Additional Tasks** button enables the user to create a desktop icon shortcut. Select the **Next** button to continue.



**Figure 2-4: Select Additional Tasks Screen**

7. Once all the desired parameters have been set, the **Ready to Install** screen will appear displaying the setup settings. Click the **Install** button to complete installation.

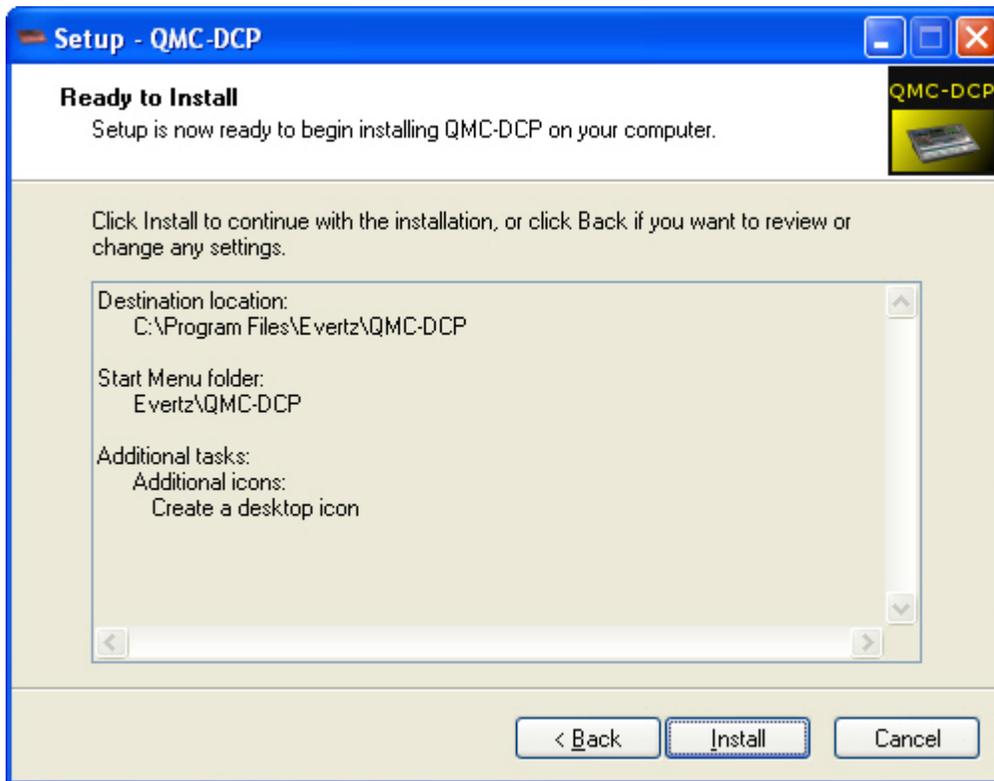


Figure 2-5: Ready to Install Screen

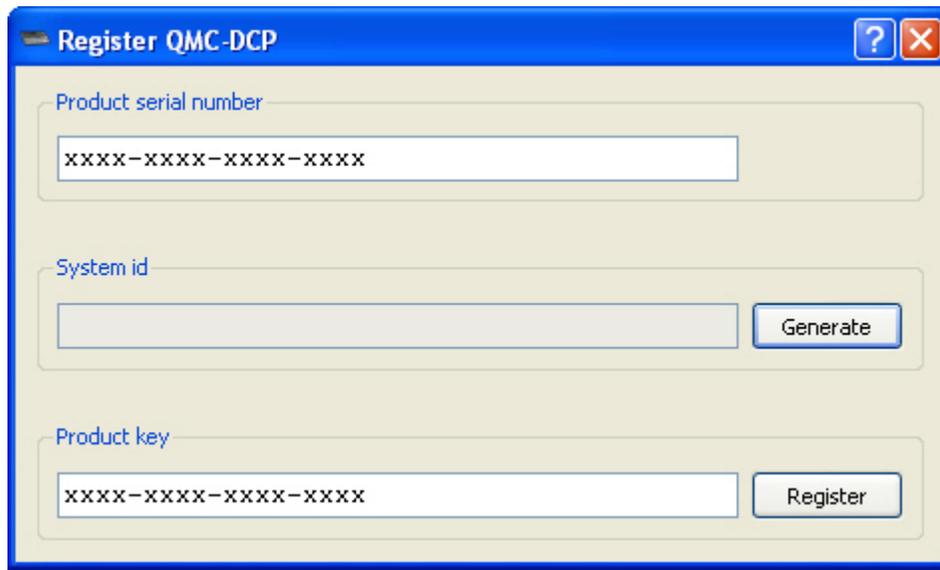
8. The screen shown in Figure 2-6 will be displayed when the QMC-DCP software has been successfully installed. Select the **Finish** button to exit setup.



Figure 2-6: Finish Screen

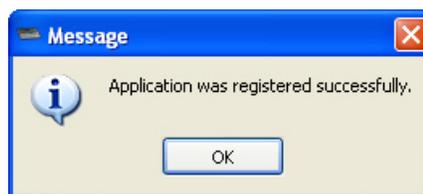
## 2.2. REGISTERING PRODUCT

1. To launch the QMC-DCP software program, navigate to **Start** menu > **All Programs** > **Evertz** > **QMC-DCP** > **QMC-DCP**.
2. Once the application is launched the user will be prompted to enter a serial number into the **Product Serial Number** field.



**Figure 2-7: Register QMC-DCP Dialog Box**

3. The serial number can be located on your CD case. Enter the 16 digital serial number into the **Product Serial Number** field and then click the **Generate** button located beside the System ID field.
4. A System ID will be generated and displayed in the **System id** field.
5. Once the user acquires the System ID number, the user must email the system id number to [service@evertz.com](mailto:service@evertz.com) so that Evertz personnel can generate a product activation key.
6. Once Evertz receives the System ID number, Evertz Service will send the user a product key number. Enter this number into the **Product key** field of the **Register QMC-DCP** dialog box and select the **Register** button.
7. A dialog box will appear informing the user that they have successfully registered the QMC-DCP software with Evertz.



**Figure 2-8: Register Complete**

### 3. CONFIGURING THE QMC-DCP SOFTWARE

#### 3.1. SETTING UP THE SOFTWARE

The user must set up the QMC-DCP software using the QMC-DCP Setup Tool.

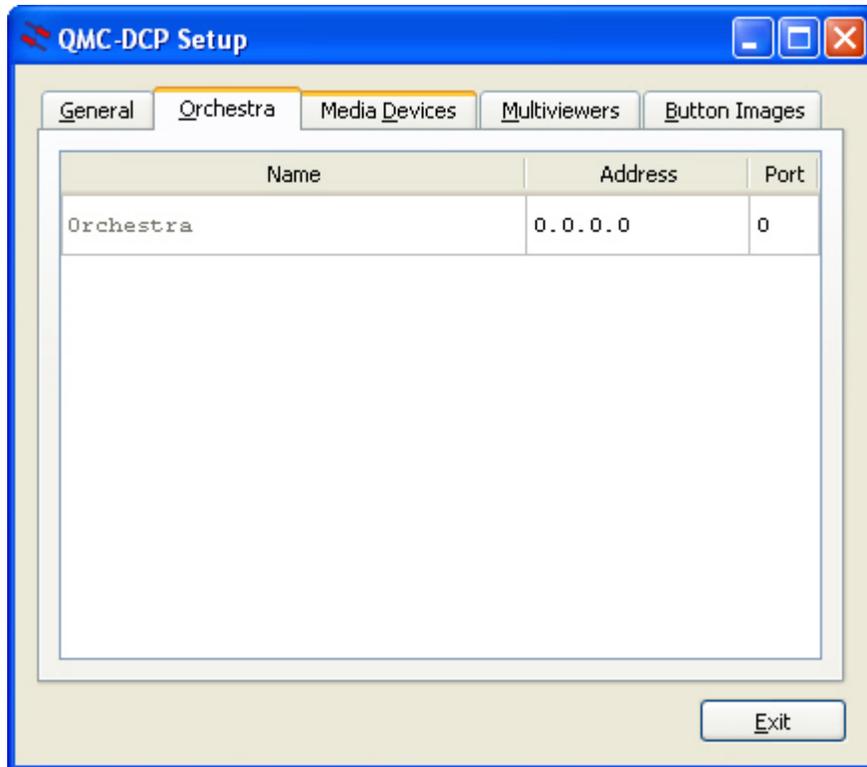
1. Launch the QMC-DCP Setup Tool by navigating to the **Start** button > **All Programs** > **Evertz** > **QMC-DCP** > **QMC-DCP Setup**.
2. The QMC-DCP Setup dialog box, as shown in Figure 3-1, will launch enabling the user to configure the QMC-DCP software.



**Figure 3-1: General Tab – QMC-DCP Setup**

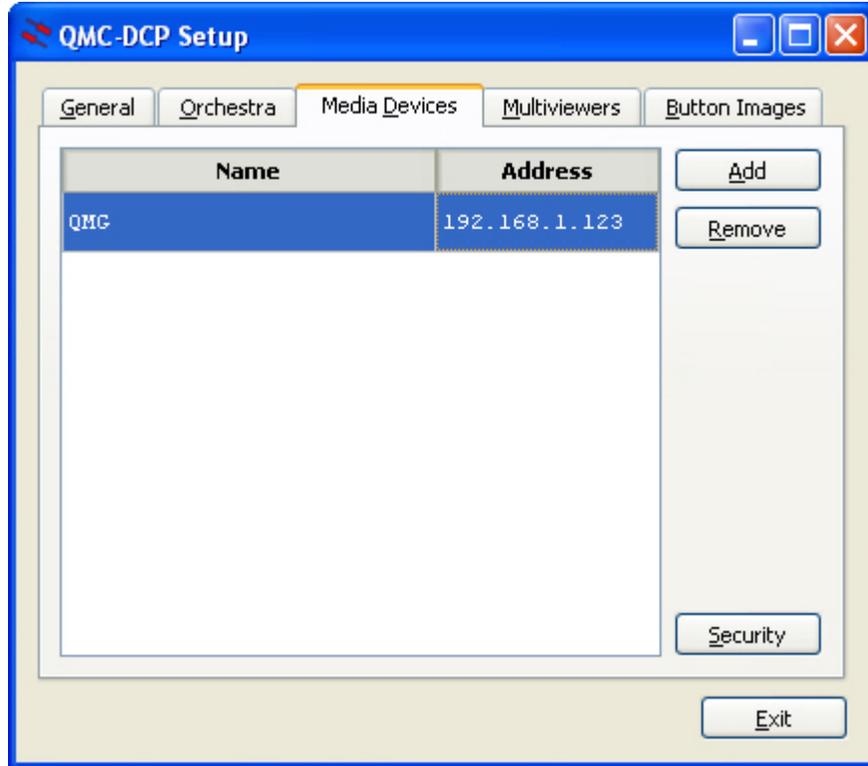
3. The **General** tab displays the software information. The user will be required to enter a QLink Address into the QLink Address field. The product serial number will be displayed in the according field and the software version will be displayed in the **Version** field.

- The **Orchestra** tab enables the user to enter the appropriate Orchestra information. Enter the IP Address of Orchestra into the Address field by double clicking on the current address in the field and entering the Orchestra IP Address. To assign a port, double click in the port field and enter the port number.



**Figure 3-2: Orchestra Tab – QMC-DCP Setup**

- The **Media Devices** tab enables the user to add media devices for which the QMC-DCP software is going to control. To add a new device, select the **Add** button and a new device row will be created. Double click in the **Name** field and enter in a name for the device you wish to add. The user must enter the IP address of the desired device, by double clicking in the corresponding **Address** field and typing in the devices IP address. To remove a device, highlight the device and select the **Remove** button.



**Figure 3-3: Media Devices – QMC-DCP Setup**

The user may be required to set the security of the device listed. To set the security for the device, highlight the device and click the security button. A security dialog box will appear, enabling the user to enter a username and password. See Figure 3-3.



**Please note, the user will be required to enter a username and password into this dialog box if an ftp username and password was previously set for the device using Overture. The same username and password created for ftp security must be entered here. If not, the QMC-DCP software will NOT be able to connect to the device. However, if the device was not previously assigned a username and password, then these fields can be left blank.**



**Figure 3-4: Security Dialog Box**

- The **Multiviewers** tab enables the user to add multiviewer devices, such as the MVP. To add a multiviewer, select the **Add** button and a new multiviewer row will appear. Double click each field to enter the appropriate information. Define the multiviewer by entering an identifier name in the **Name** field. Enter the multiviewers IP address into the **Address** field and it's port number into the **Port** field (By default the port number is 9680 but the user should check the correct value. This port number can be found under the MVP System Configuration Tool). To remove a multiviewer from the list, highlight the item in the list and select the **Remove** button.

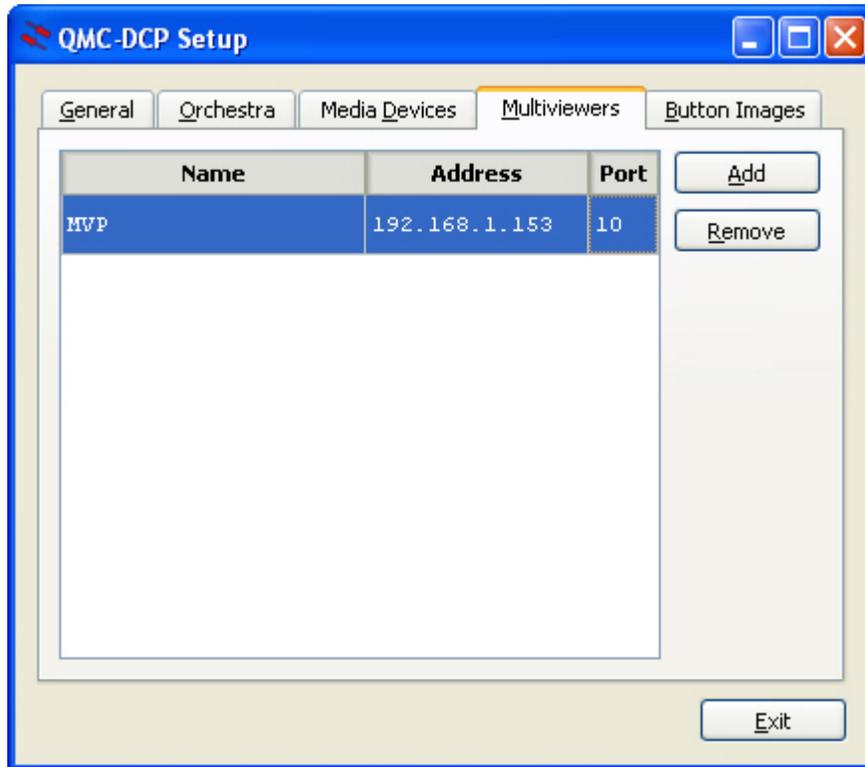
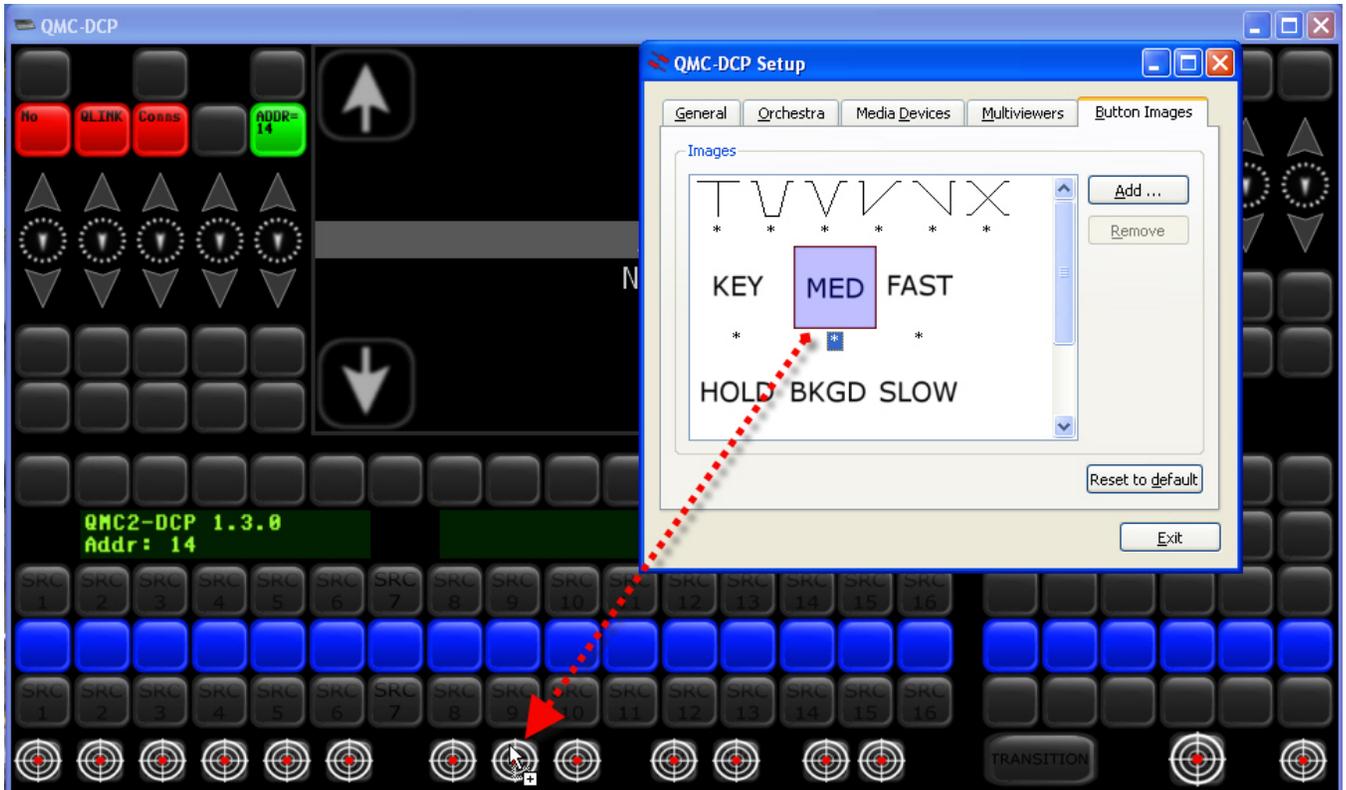


Figure 3-5: Multiviewers – QMC-DCP Setup

- The **Button Images** tab enables the user to select existing images and add new images, which can be applied to the QMC-DCP software interface.

To apply an existing button image to the QMC-DCP interface from the QMC-DCP Setup application, click on the image in the **Images** field and drag it onto one of the bottom buttons in the QMC-DCP interface as shown in Figure 3-6. The user can only place these images on the bottom 15 assignable buttons. When the user drags the selected image onto the QMC-DCP interface, the bottom 15 buttons will be highlighted as bulls-eye graphics, indicating that the user can apply the image to the button.



**Figure 3-6: Dragging a Button onto the QMC-DCP Interface**

To apply your own images, select the **Add** button. The **Open** dialog box (as shown Figure 3-7) will appear enabling you to navigate to the folder where your custom image is stored.



**Please note that a custom button image must be saved as a .png. The QMC-DCP interface will only support a .png image file type due to its transparency capabilities.**

Once the image is selected from the appropriate directory, click the **Open** button to add the image file to the QMC-DCP Setup **Images** list. Apply these images using the same drag and drop technique as outlined above.

If you wish to reset the button images to factory default, select the **Reset to default** button. When the button images are reset to default in the QMC-DCP Setup, the user must re-start the QMC-DCP application in order for changes to take effect.

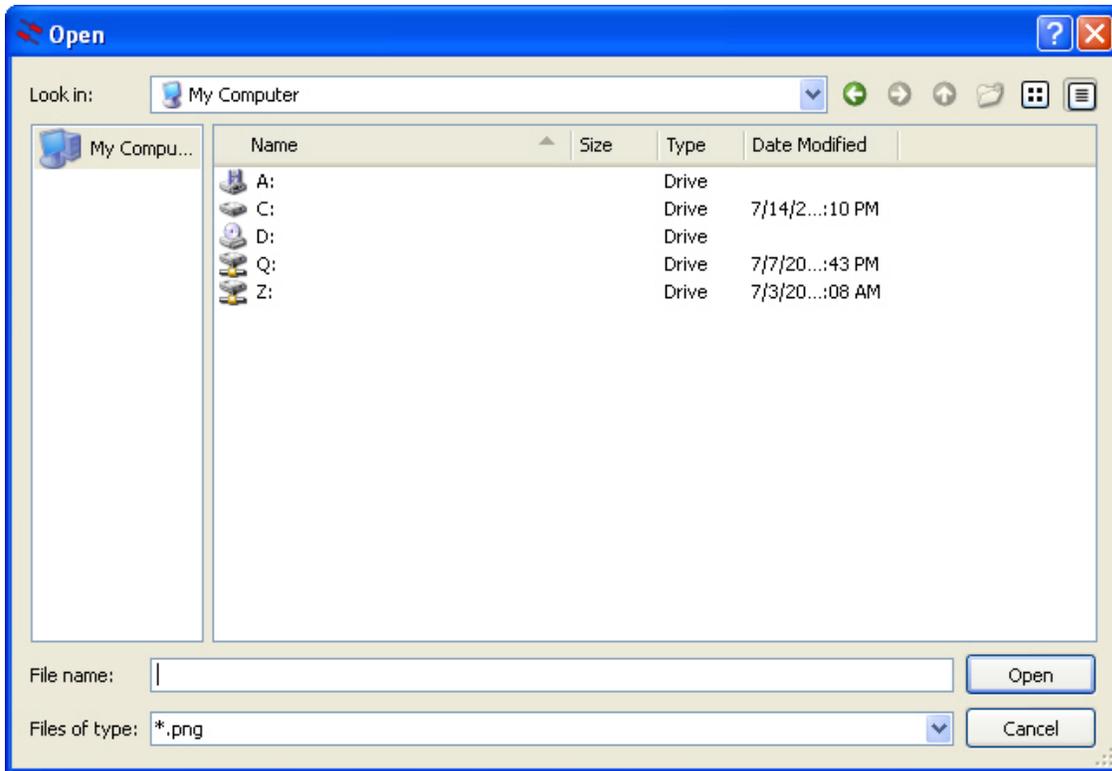
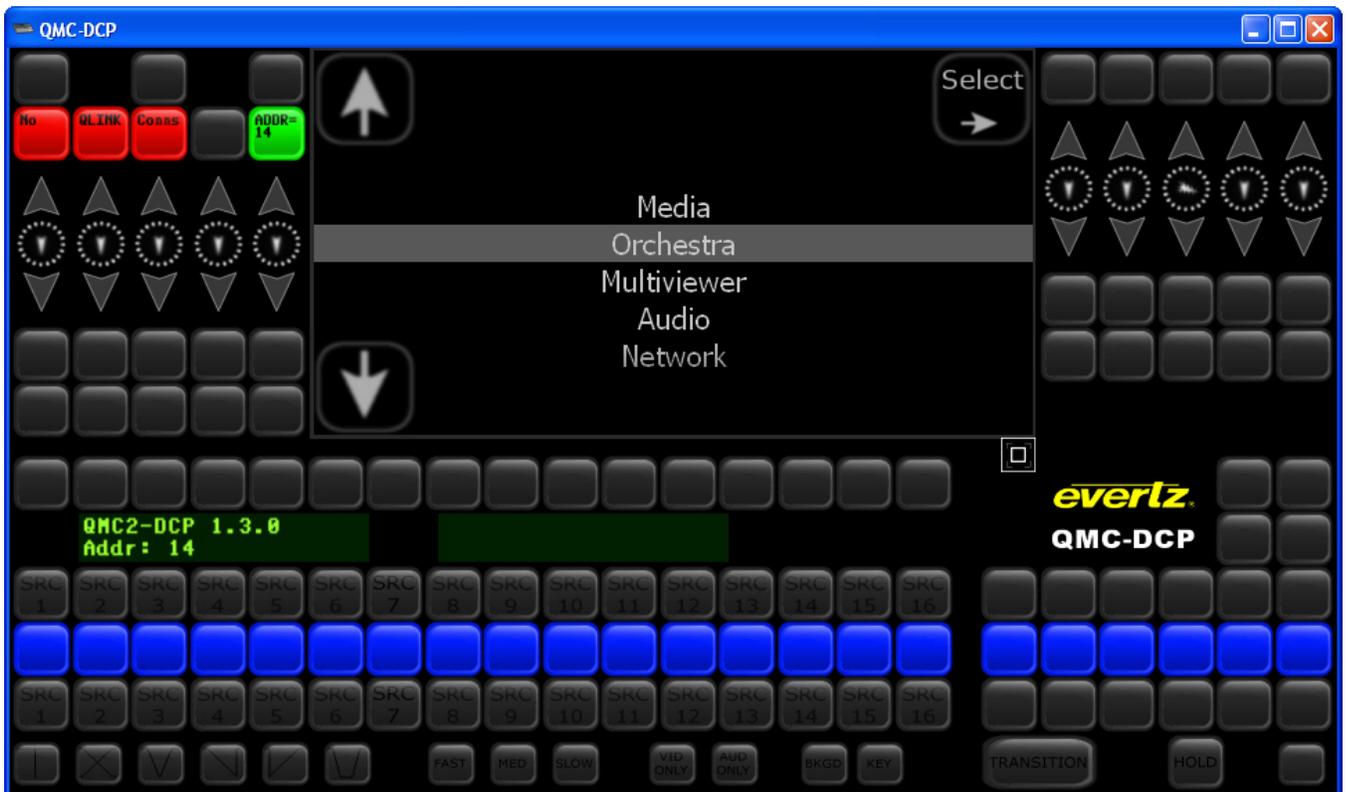


Figure 3-7: Open Dialog Box

8. Once the user has completed the QMC-DCP configuration, the QMC-DCP Setup dialog box must be exited by clicking the **Exit** button and the QMC-DCP application must be restarted in order for the configuration settings to be applied.

- Once the settings are applied, launch the QMC-DCP software interface. A window similar to the one shown in Figure 3-8 should appear enabling the user to control the media keyer devices.



**Figure 3-8: QMC-DCP Screen**

## 4. OPERATION

The information that the user entered into the QMC-DCP Setup tool will have configured the devices to work with the QMC-DCP-SW Software.

The QMC-DCP-SW will have to be re-started in order for the changes made in the QMC-DCP Setup application to take effect.

Upon launching the QMC-DCP-SW application, a screen similar to the one in Figure 4-1 will be displayed.

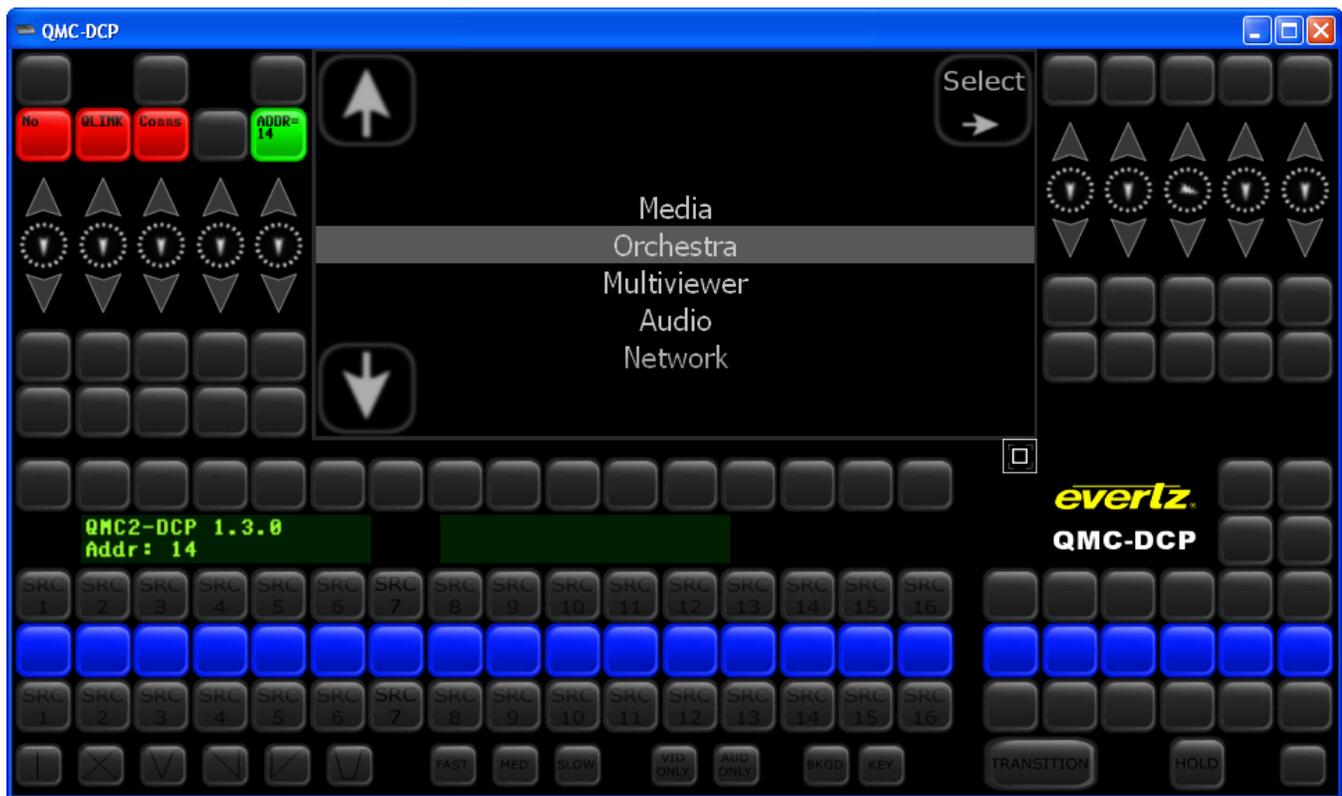


Figure 4-1: QMC-DCP-SW Software Screen

### 4.1. DEVICES AND CONFIGURATIONS

The configurations and devices added in the QMC-DCP Setup tool will be displayed in the QMC-DCP-SW software. The main center window will display the configurations that were created in the QMC-DCP Setup tool. For example, items listed in Figure 4-1 are displayed because they were added in the Setup tool, if each option is not individually setup using this tool then the item will not be displayed in the QMC-DCP Software window.

#### 4.1.1. Media Window

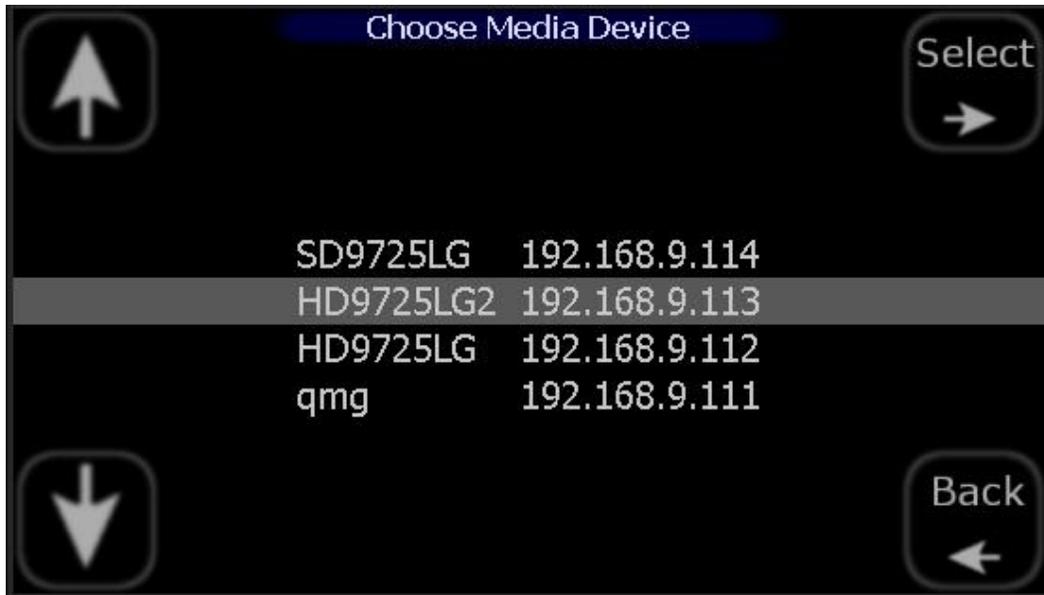
The media window enables the user to view the media devices that are configured to work with the QMC-DCP.

1. When the user selects the **Media** item from the main menu, as shown in Figure 4-2, then the QMC-DCP will provide a list of available media devices.



**Figure 4-2: Main Menu with Media Selected**

2. The user will be required to select a media device from the items listed, as shown in Figure 4-3. The items listed will be gathered from the devices entered in the QMC-DCP Setup tool.
3. To select a device, toggle to the desired device using the *Up* and *Down* arrows on the screen until the device is highlighted. Once the device is highlighted, press the **Select** button on the screen.



**Figure 4-3: Media Device Selection**

4. Once the device is selected a Media window will appear, listing the media that is available on the selected device. The user will be able to set the controls for the specified media. Figure 4-4 shows how the media and controls will be displayed on the screen.
5. The media image will be previewed in the left hand side of the screen and the **in** and **out** controls can be located on the right hand side of the screen. The **IN** column indicates which media is faded in and the **CUE** column lists the media that is currently cued. This section enables the user to choose how the selected media will be displayed on the screen.
6. The user can use the **IN** and **CUE** buttons to control how the media is inserted. Use the *up* and *down* arrows to toggle through the control items. Select the **Back** button if you want to return to the main device menu.

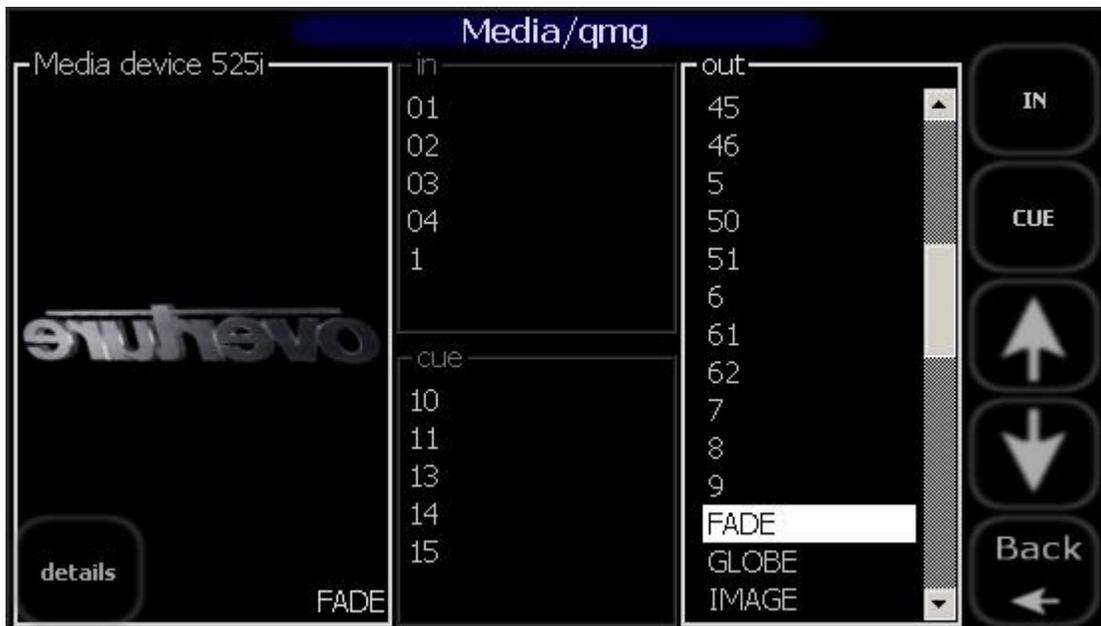


Figure 4-4: Media Controls

7. To view the details of the selected media, navigate to the left pane and select the **DETAILS** button in the lower corner of the pane. Once this button is selected, a screen similar to the one shown in Figure 4-5 will be displayed.
8. This screen lists the details of the media and enables the user to reposition the media relevant to the screen based on the video standard. Use the UP, DOWN, RIGHT, and LEFT arrows to adjust the position of the logo on the screen.
9. The user can also zoom into the logo using the **ZOOM** button on the right hand side of the screen. This screen displays the position of the logo on the screen, the size (in pixels) and the Logo Video Standard (Logo vid.std.) of the logo.
10. To exit this screen, press the **BACK** button.
11. To select another device or return to the main menu screen, continue to press the **BACK** button until you navigate to the appropriate screen.

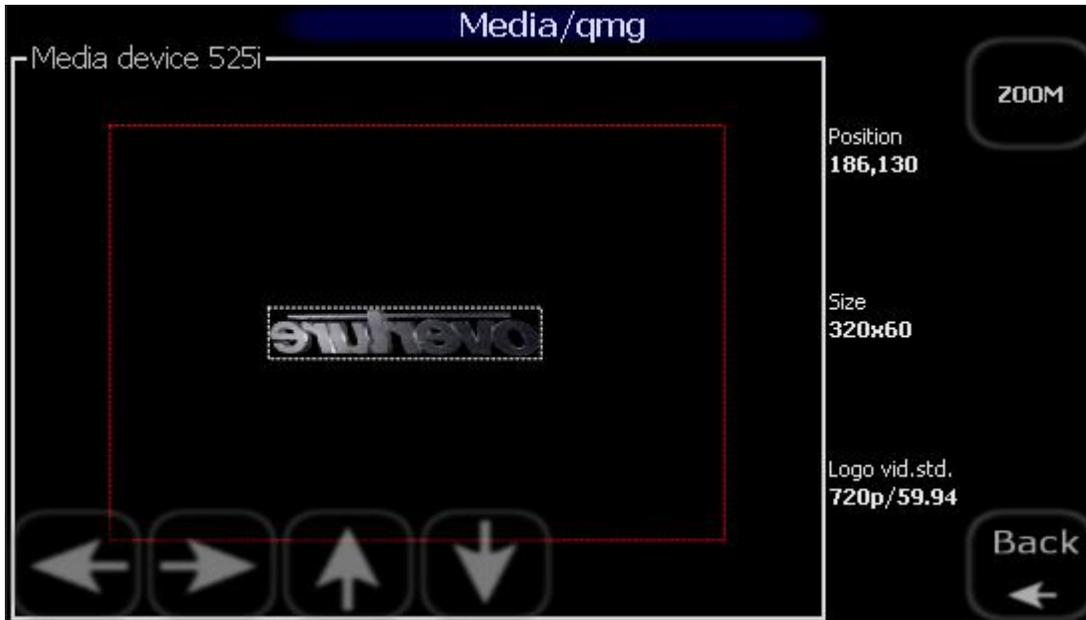


Figure 4-5: Media Details

#### 4.1.2. Orchestra Window

The Orchestra window enables the user to access a device using the orchestra software.

#### 4.1.3. Multiviewer Window

The multiviewer item enables the user to view and configure the MVP connection. The multiviewer will have been set up from QMC-DCP setup tool.

1. When the user selects this option, the QMC-DCP software will search for the multiviewer device that was assigned in the QMC-DCP Setup Tool.

#### 4.1.4. Audio Window

The audio control enables the user to view the associated audio levels. The Audio for the selected QMG channel will be displayed here. A list of the Audio channels can be located in the left side of the screen, which enables the user to select the desired item and display its audio levels, as shown in Figure 4-6.

1. Select the appropriate audio channel from the left column and the audio levels will be displayed in the main center window.

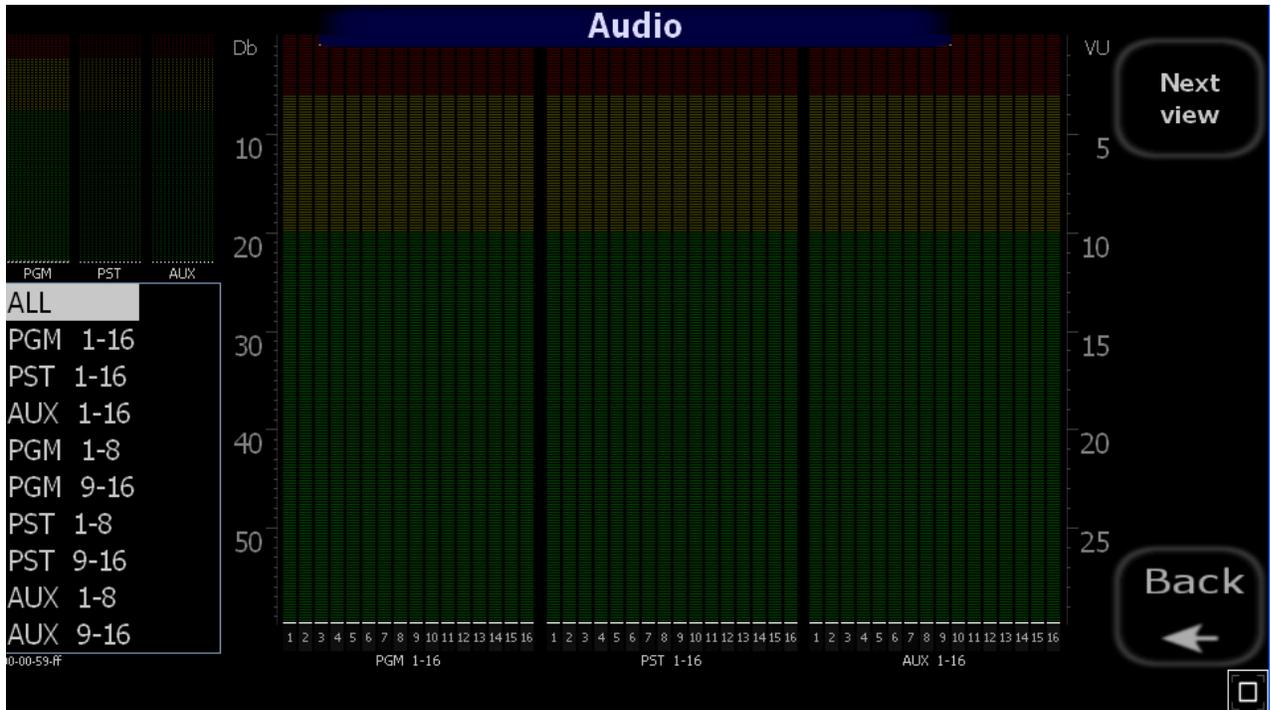


Figure 4-6: Audio Screen

- Figure 4-7 displays the audio levels of the selected audio channel. To display the next channel, select the **NEXT VIEW** button in the top right hand corner. To return to the main menu, select the **BACK** button.

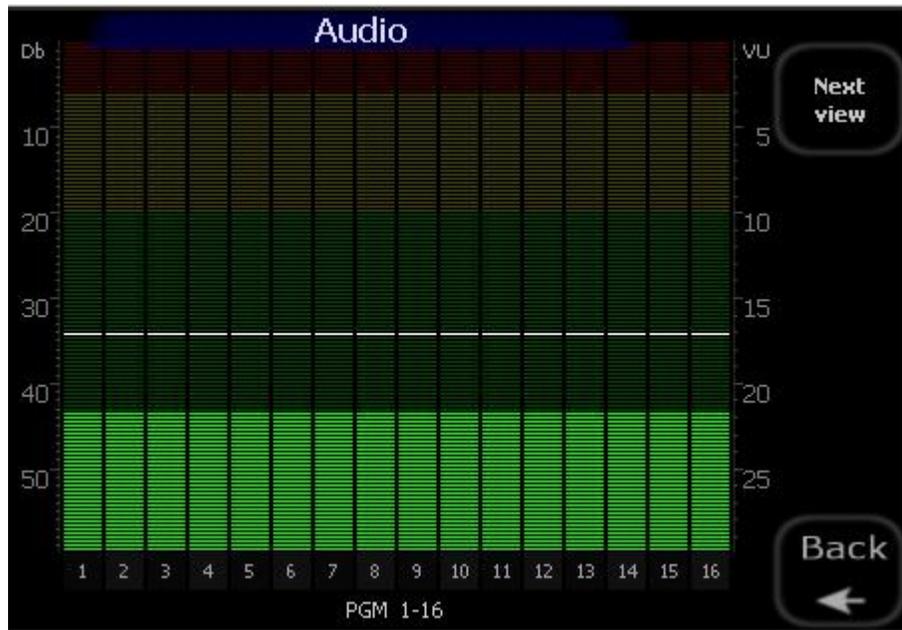


Figure 4-7: Audio Metering

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### 4.1.5. Network

The network option enables the user to view the network connections.

1. To access the Network option, toggle using the UP and DOWN arrows, to the **Network** option and press the **SELECT** button.
2. The user will be presented with a list of IP Addresses and associated Net Masks for all the devices that are connected to the QMC-DCP.



Please note that the IP Address shown in the Network window should match the IP address that the PC is running on.

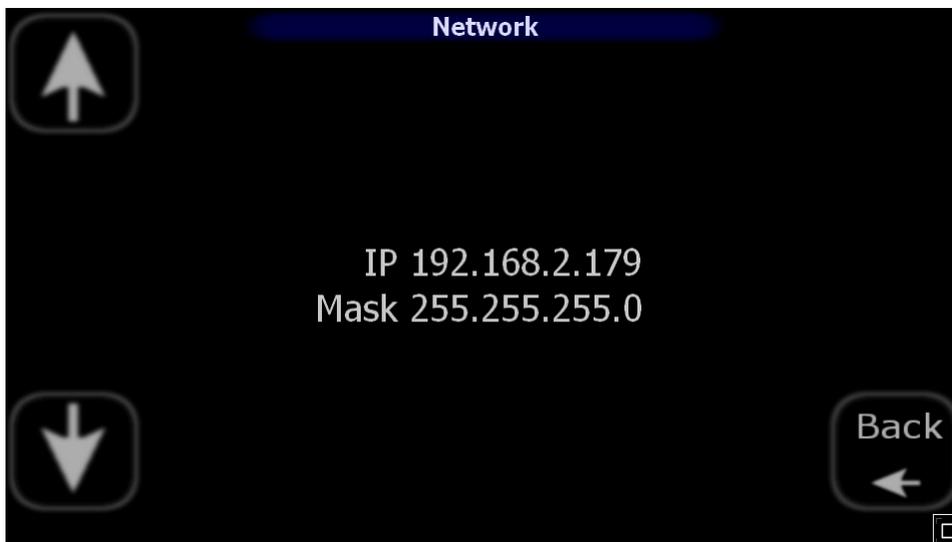


Figure 4-8: Network Window

## 5. DEFINING THE BUTTONS ON THE QMC-DCP-SW INTERFACE

The following chart provides a list of the available buttons:

BUTTON	DESCRIPTION
	When the “No QLINK Comms” buttons are displayed, the QMC-DCP-SW is indicating that there is no communication to the QMC. If a connection is established then the “No QLINK Comms” buttons will disappear.
	This button displays the QLINK address that is assigned to the panel. This unique address is configured by the user in step 3 of section 3.1.
	This control acts as a Virtual Shaft Encoder. It is used when the user is changing values on the panel that possesses a range of values. The values can be adjusted by clicking on the up and down arrows. Selecting the <i>UP</i> arrows increases the value by moving the arrow clockwise, while the <i>DOWN</i> arrow decreases the value by moving the arrow counter clockwise.
	This button selects a CUT transition type. The <i>Cut</i> transition is a hard switch that brings in the effect.
	This button selects a FADE transition type. The <i>Fade</i> transition is a soft switch that gradually fades in the selected media.
	This button selects the FADE-to-FADE transition type. The current input fades out gradually, while the new source is faded in gradually. At any instant the value is the sum of both PROGRAM and PREVIEW inputs.
	This button selects the CUT-to-FADE transition type. The current input switches within one (1) frame while the new source is faded in gradually.
	This button selects the FADE-to-CUT transition type. The current input fades out gradually, while the new source is added within one (1) frame.
	This button selects a MIX or FADE transition type. This transition mixes the current effect with the next effect. The current effect lessens, while the next increases. The process is linear, so that the fade/increase occurs at the same rate.
KEY	This key works with the keyer and performs a similar function to the Background Level key. Default QMC-2 operation is for a preset keyer to always transition at the next transition take. Setting M2100 protocol data byte 14, bit 2 to a 1 will cause a preset keyer to only transition if this key is selected or automation requests the keyers to transition. QMC-2, FS2 FS-E, DCP.
SLOW	This button selects the <b>slow</b> speed for the transition type. <b>SLOW</b> performs the transition in 1 second or 30 frames.
MED	This button selects the <b>medium</b> speed for the transition type. <b>MED</b> performs the transition in approximately two thirds of a second or 20 frames.
FAST	This button selects the <b>fast</b> speed for the transition type. <b>FAST</b> performs the transition in 0.5 seconds or 15 frames.
HOLD	When this button is selected, it stops the system from performing a transition. No automation commands are accepted when this button is pressed.
BKGD	This button prompts a BACKGROUND to be included in the transition. BGKD changes the background portion of the video signal. In a transition, audio always follows video if BGKD LED is on.

VID ONLY	This button selects a VIDEO ONLY transition.
AUD ONLY	This button selects an AUDIO ONLY transition.
	This button enables the user to set the main window to full screen. When this button is pressed the window will be enlarged to fill the entire screen.
	Pressing the SELECT button enables the user to select the highlighted area on screen.
	Pressing the BACK button enables the user to return to the previous screen.
	Pressing the UP button enables the user to toggle up the menu options.
	Pressing the DOWN button enables the user to toggle down the menu options.

**Table 5-1: Button Descriptions**