



Technical Guide

Marquee W610 Media Player

November 19, 2010

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Marquee Introduction

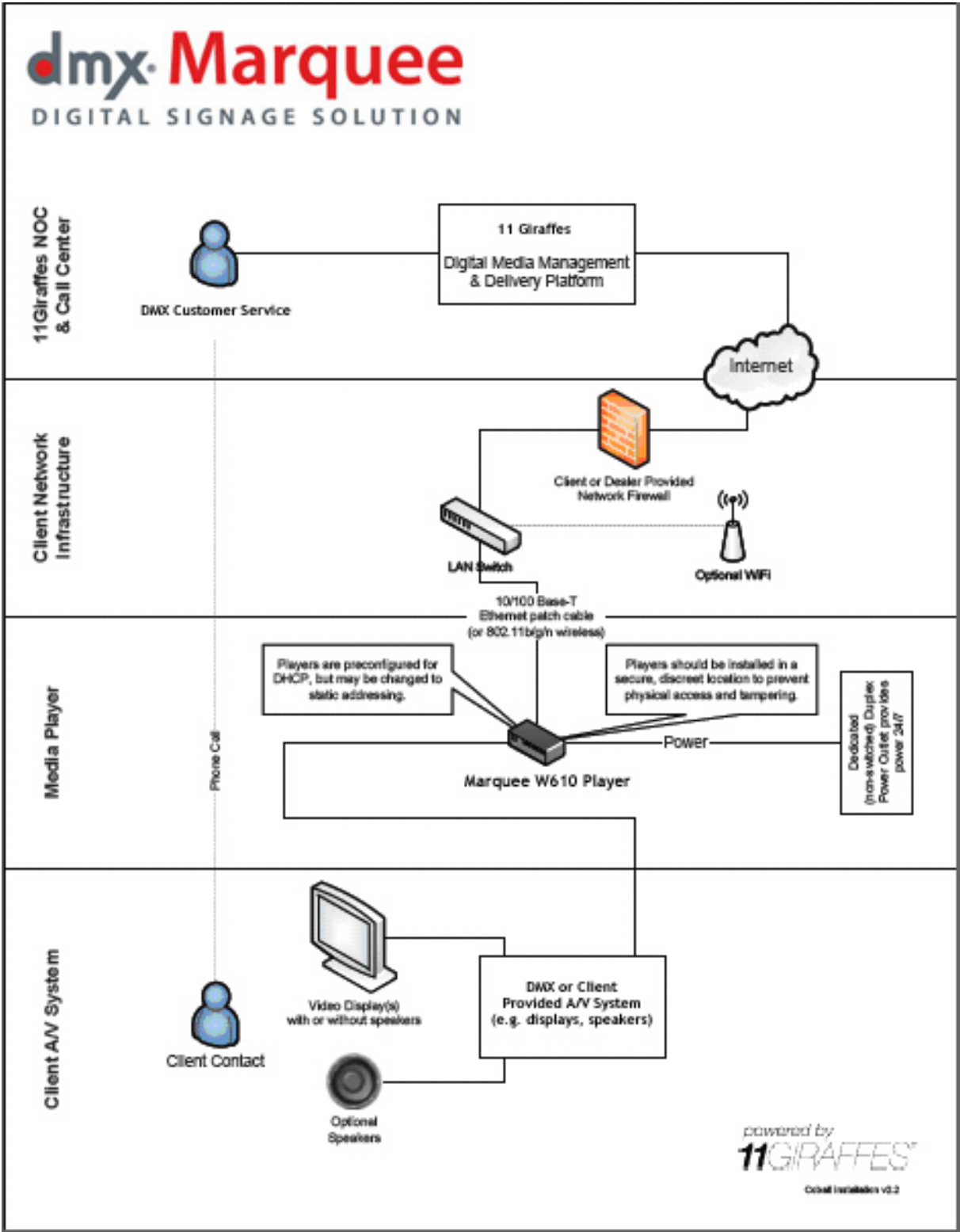
Welcome!

This Marquee Technical Guide has been designed to walk you through the technical aspects and installation of the Marquee system with the W610 media player - step by step - giving you the detail and supporting information you will need to perform a standard installation.

Towards the end of the document, you will find recommendations on how to handle less ordinary installations. You will also find a one page “Quick Start Installation” guide, which is included with each player.

Please remember, you may always call **DMX customer support at 800-345-5000** for assistance in all installation matters.

Marquee Solution Overview



Media Player – W610

media player specifications



Dimensions	7.56" x 8.27" x 2.44" (W x D x H)
Weight	5 pounds, including external power supply
Network	10/100/1000 Mbps Ethernet 802.11b/g/n wireless Supports WEP, WPA, WPA2, CIPHER-TKIP & CIPHER-CCMP wireless encryption Supports DHCP & static addressing
Storage	250 GB Hard Disk Drive, Optional 16 GB or 32 GB Solid State Drive
Video Input	Supports pass-through of external video sources using optional video encoder
Video Connectors	HDMI, DVI-I (Dual Link) and VGA
Video Output	Standard & High Definitions up to 1080p
Audio Connectors	3.5 mm Stereo or HDMI
Operating System	Linux
Mounting	Rubber feet, or VESA/FDMI display mount
Media CODECs	Supports all standard media types
Power Consumption	Less than 32 watts
Approvals	FCC Part 15 Class A (entire system), UL/CE/TUV (power supply)

installation of W610 player

required tools & equipment

- Ethernet patch cable (for wired configuration)
- HDMI, VGA (DDC2 Recommended) or DVI display cable(s)
- Male 1/8" (3.5mm) cable (for non-HDMI audio)

helpful tools for player configuration and troubleshooting

- Laptop computer
- USB keyboard
- Network cable tester
- label maker (to label any cables that may run a long distance)
 - Spare RJ-45 (Ethernet) connectors
 - Tie wraps
 - Cable cutter

DMX support hours

- M-F 7:30 AM to 7:30 PM, CST
- Saturday 9:00 AM to 6:00 PM, CST

pre installation steps

- 1. Standard wired or wireless broadband Internet access is required.** In addition, HTTP, HTTPS and SFTP ports (80, 443 and 22, respectively) should be enabled. Specific IP ranges to configure firewall settings are listed in the Optimal Firewall Configuration section of this document.
- 2. Verify displays support Marquee.** Most displays on the market today will support Marquee. If the client has an existing video distribution solution, the below recommendations will help ensure the monitors take maximum advantage of Marquee:
 - a. Identify inputs (e.g., HDMI, VGA, DVI) that can / will be used.
 - b. Determine the location where Marquee player(s) will be installed. Ensure that dedicated (non-switched) power is present, and that network cabling or wireless coverage is available.
 - c. Review the video distribution requirements for distances and numbers of screens.

The distance from the signage player to each monitor, and functionality required, dictates the type of connection. Distances of less than 100 feet may not need any amplification of signal and may be able to split signal to up to three monitors using VGA two way splitters and high quality VGA cables. Review supporting documentation for any solution over three monitors and or a distance of over 100 feet. Please verify if content is being presented in landscape or

portrait mode, and if live TV or other external video is to be presented on the screens. For more detailed information on these and other scenarios, consult the current Marquee Installation Instructions.

3. Out of the box, the W610 defaults to operate from a wired network connection. If performing a wireless setup, you will need to know the following information in advance of performing configuration:
 - SSID
 - Encryption Key Type (e.g., WEP/WPA)
 - Passphrase type (ASCII/Hex). If this is unknown, and the key contains only the letters A-F and numbers, it is most likely a Hex key.
 - Passphrase or Key

After obtaining this information, please follow the instructions later in this document under Wireless Installations.

4. The default network configuration uses DHCP to acquire a network address. If a static IP address is preferred or required, follow the instructions later in this document.

step by step instructions

Identify a discreet location for placement of the media player. Ideally, it should have limited access and be near an existing network port to the Internet. A network/phone closet, manager's office or other secure location is recommended. Place the media player in a location near the dedicated power source, the available network port, and where at least 3" of airflow is available around the unit. The media player may be mounted on its side if necessary.

Confirm availability of a dedicated (non-switched) power source. The media player receives content and software updates overnight. It should not be powered by a source that is turned off at any time.

Note that standard broadband Internet access is required. In addition, HTTP, HTTPS and SFTP ports (80, 443 and 22, respectively) should be enabled.

Recommended Step - Verify Internet Access: Using a laptop (or other network device), connect to the existing network and confirm that www.Marquee11.com can be pinged. If it is not accessible, network connectivity must be corrected prior to proceeding.

Wired - Connect one end of the included Ethernet patch cable to the existing host network port.

Connect the other end of the Ethernet patch cable to the RJ-45 Ethernet port on the rear of the media player.

Wireless - Connect the wireless antenna to the antenna post on the rear of the media player.

Connect the appropriate cables from the video screen to the appropriate connector on the rear of the media player. **The screen should be powered on prior to powering the media player.**

If audio is being installed, and HDMI video cables are not being used, connect a male 1/8" (3.5mm) connector cable (not included) to the GREEN analog audio connector on the rear of the media player. Connect the other end of this cable to the audio amplifier or display audio input.

NOTE: The W610 media player defaults to using audio over HDMI. If analog audio is to be used, this must be communicated when contacting Dealer Support. The player settings will be remotely changed to output analog audio at this time.

If the player is required to support live video content from an external source (e.g., cable or satellite TV), please see the required installation steps later in this document.

Connect the included power cable to the rear of the media player.

Connect the other end of the power cable to a dedicated (non-switched) power source.

Unit should power on automatically. If not, press the power button on the front faceplate of the media player. The screen will be black for about 25 seconds as the player starts.

Upon startup, the media player will display a series of diagnostic messages for approximately 90 seconds. Green **Pass** messages throughout indicate that the player is successfully installed and able to communicate with Marquee servers. Any Red **Fail** messages indicate the location of a network problem. Note these and provide them to the local network administrator to troubleshoot. At the conclusion of this diagnostic screen, the image will either:

- change to a Marquee logo until the client playlist has completed the download process; or
- continue to display the Marquee logo until a client playlist is assigned.

Call DMX Customer Support at 800-345-5000 to confirm connectivity, provide serial number, validate location information and activate player.

Please advise your client that download times will vary substantially, and are based upon the number of files being downloaded, the type of files (video or image) and the amount of available bandwidth to the media player.

Prior To **Leaving Client Premise**

- Point out location of the serial number, power button, power cord, Internet and cable connections to the customer.
- Ensure your customer knows how to contact DMX Customer Service should they experience any problems.

Network Configuration

Wireless Network Activation and / or Static IP

The Marquee media player will automatically connect with Marquee servers using a wired network. In some installations, you may wish to utilize a wireless network. To do so, perform the following steps to activate the wireless network on the Marquee media player.

Note: If performing a wireless setup you will need to know the following information in advance of performing configuration:

- SSID
- Encryption Key Type (e.g., WEP/WPA)
- Passphrase type (ASCII/hex). If this is unknown, and the key contains only the letters A-F and numbers, it is most likely a hex key.
- Passphrase or Key

Step By Step Instructions

- Attach a **USB** keyboard to the player.
- Apply power and start the media player.
- After the diagnostic screen concludes playback, simultaneously press **CTRL - ALT - Q** on the keyboard. Playback will cease for 10 minutes. If you do not complete the following within 10 minutes, you will need to press **CTRL - ALT - Q** again to exit playback.
- Simultaneously press **CTRL - ALT - D** on the keyboard. This will bring up the Network Setup Utility. If during this process the player restarts or covers part of the screen, use **ALT - TAB** to view the Network Setup Utility window. To close the Network Setup Utility without saving changes, simultaneously press **CTRL - C**.
- Proceed with the setup process by entering your selection to each question and pressing **<Enter>** to proceed to the next question.
- Once all the data has been entered the player will try to connect using the data entered and display the message “* Reconfiguring network interfaces...”.
- When this is completed the IP address will be displayed near the bottom of the window.
- If a message is received stating “No DHCP OFFERS received.” Please recheck your settings, exit the utility and restart the Network Setup Utility to begin again.
- Once setup is completed press **<enter>** as instructed to exit network setup.
- Reboot the media player. Upon restart, confirm connectivity and communication with remote servers using the feedback provided on the Loading Screen.
- Should you require assistance, call DMX Customer Service at 800-345-5000.

Optimal Firewall Configuration

1. 11Giraffes Marquee and associated products are configured to work outbound through ports 80, 443 and 22. Our products do not listen for, nor do they require, any inbound connections.

Important Note: Steps 2 and 3 are discouraged unless absolutely necessary because such IP ranges need to be periodically audited and modified, creating additional maintenance to your network. These changes are rare, but they may be necessary to continue to provide the maximum performance for the Marquee family of applications. Maintenance and failover events may cause you to connect to servers within any of the ranges.

2. If your firewall includes a content or application data scanning filter, this may cause blocking or latency, which would be indicated in the log files for the filter. To address this problem, verify the below IP ranges will not be scanned or filtered by content or application data scanning filters by specifying exception IP ranges that will not be filtered.

3. If your security policy requires you to specify explicit IP ranges, then configure your firewall to limit port 80, 443 and 22 destination IP addresses to only the 11Giraffes ranges listed below.

Additional detailed information on firewalls and security vulnerability evaluation process is available upon request.

Server / Datacenter IP Addresses for Use in Firewall Configurations Equivalent Specifications in 3 Common Formats				
Assigned Range by Block*	Numeric IP Address Range	Netmask Notation		CIDR Notation
Block 1	216.27.66.144 - 216.27.66.159	216.27.66.144	255.255.255.240	216.27.66.144/28
Block 2	74.213.132.16 - 74.213.132.31	74.213.132.16	255.255.255.240	74.213.132.16/28
Block 3	74.213.132.224 - 74.213.132.239	74.213.132.224	255.255.255.240	74.213.132.224/28

Alternate Network Connection

Marquee is a networked solution and requires active internet access. If a network is not available for the Marquee player, Cradlepoint's CBA250 can be used to provide cellular over-the-air wireless networking.

This device supports all major data carriers (e.g., AT&T, Sprint, T-Mobile and Verizon) as well as USB or PCMCIA-express devices (e.g., the Franklin U301 USB modem via Sprint). For a complete list of data carriers and express devices, please visit the Cradlepoint website at <http://cradlepoint.com/products/cba250-cellular-broadband-adapter> and select the Supported Devices tab.



The CBA250 may be purchased directly from Cradlepoint's website, or via other internet sources. The CBA250 requires an agreement with one of the supported mobile data carriers. Agreements are the responsibility of the dealer or end user. We recommend agreements with a 5 GB monthly limit which should be enough bandwidth to support the Marquee solution and should prevent overage charges on the data plans. The average monthly cost for most carriers is approximately \$60.00 for a one or two

year agreement.

Installation of the CBA250 is simple:

Using a laptop, confirm that the wireless data carrier USB or PCMCIA-express device is authorized and functioning.

1. Plug the CBA250 into the wall using the included power cable.
2. Connect the player to the CBA250 using an Ethernet patch cable.
3. Plug the USB or PCMCIA-express device into the CBA250.
4. Wait approximately 15 seconds for the CBA250 to access the network. It will display a network signal.
5. Apply power to the media player and proceed as normal.

If the CBA250 is unavailable, other Cradlepoint devices should function in the same manner. When selecting one, be certain that it provides IP Pass-Thru (or bridging) capability and, again, verify the supported devices.

Video Pass-Thru Adapter (SD) Configuration

Pre-Installation Steps

Marquee players support specific video pass through devices. The W610 supports the Hauppauge HVR1950 for standard definition and the Hauppauge HD-PVR for high definition.

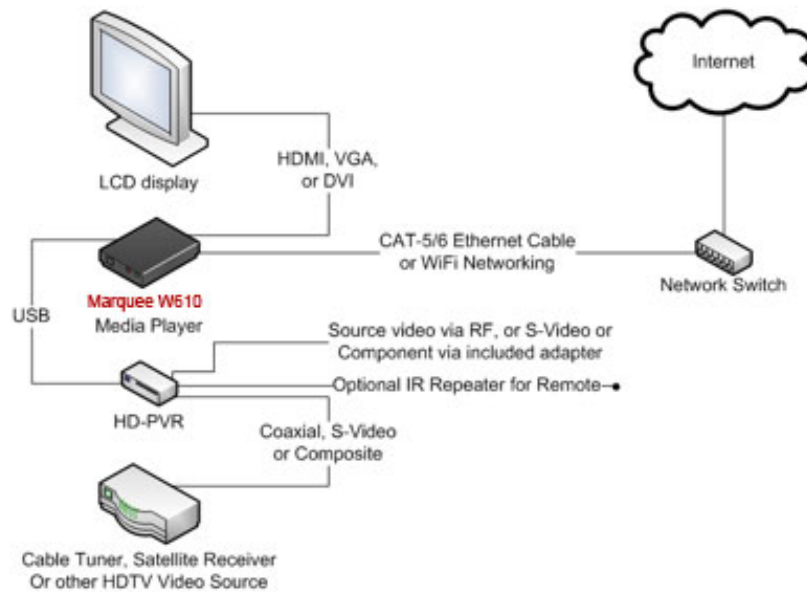
Gathering the following information prior to installation will help identify the proper equipment and cabling requirements, and simplify the installation process:

- What is video pass-thru source? Is it High Definition?
 - a. Cable tuner or satellite receiver
 - b. Wall-plate (coaxial cable wall-jack with no cable tuner)
 - c. Surveillance system, DVD, VCR, DVR, other
- Which of the Marquee-supported video outputs are available from the source device?
 - d. S-Video
 - e. Composite
 - f. Component (YCrCb, RGB or YPbPr)
 - g. RF (e.g., coaxial wall-jack with no cable tuner)
- If the source is Standard Definition, will the aspect ratio be 4:3 (traditional TV) or 16:9 (wide-screen)?
- If the source is Standard Definition cable television, and there will not be a cable tuner/receiver, is there a specific channel that the Marquee player should be tuned to?

Installing Video Pass-Thru (Standard Definition) Using The Hauppauge HVR-1950

- Run the necessary cable (Coaxial, S-Video or Composite) from the video source to the media player.
- Verify the source video using this cabling.
- Power down the digital media player.
- Connect the Video Adapter to any available USB port on the media player. Note that ideally it should be connected to a port where it is not likely to be bumped or disconnected.
- Determine the connection to the video source. If Coaxial cable (F-Connector) will be used, then the included S Video / Composite cable adapter is not necessary for this installation. If S-Video or Composite will be used, then the cable adapter should be connected to the USB Adaptor. Note that multiple sources may be installed as long as each uses a separate connection. For example, a cable tuner may be connected using S-Video while a surveillance camera is connected using Composite.
- Determine the aspect ratio of the output source. Determine if output source is standard (4:3), standard (16:9) or high definition (16:9).
- If the cable adapter is required, connect the mail mini-USB end of the adapter to the female mini-USB port on the Video Adapter.
- Connect the video source(s) to their respective connector on the Video Adapter (Coaxial) or cable adapter (S-Video and/or Composite).
- Turn power on to (1) the video source(s); (2) display(s); (3) media player.
- Instruct the client which device (e.g., HVR-1950) connection(s) was / were used during the installation. If Coaxial cable is used, instruct the client of the source video output channel. Instruct the client what the aspect ratio of their output source is. It is critical the client knows which connection (and channel, where applicable) is assigned to each source, as they will need to identify this when programming the media player for playback.
- If the video pass-thru content does not fill the entire video zone (e.g. black on the top and/or the bottom, or the sides), call technical support at 888.825.9496 to resize the video zone remotely.

Hauppauge HVR-1950 Installation



Notes:

1. Media player should be powered by dedicated (non-switched) source.
2. Display should remain on at all times to maintain synchronization with media player. If it must be powered down during off-hours, VGA connectivity should be used, or a device to retain the display's EDID should be inserted between the media player and display.
3. Display resolution must be determined to configure the Marquee media player output to match highest supported resolution. Technicians should be prepared with this information when calling DMX Customer Service.

Installing Video Pass-Thru (High Definition) Using The Hauppauge HD-PVR

- Run the necessary cable (Component, S-Video or Composite video and RCA-Type Stereo Audio) from the video source to the media player. Note that HD video requires component video to be utilized.
- Verify the source video using this cabling.
- Power down the digital media player.
- Place the HD-PVR in close proximity to the Marquee media player.
- Determine if the source video is high or standard definition. You have several options for connecting the source video, HD-PVR and Marquee media player. If you desire to utilize source **High Definition** video, follow these instructions and refer to Figure 1, below. If you desire to utilize source Standard Definition video, skip to step 6.
 - a. Connect the source video to the rear panel **Component Video In** using the included cable.
 - b. Connect the source audio to the rear panel red & white RCA-type **Audio In** connectors on the bottom-left. Note: When using component video, you must utilize the audio connectors on the rear of the HD-PVR. The optical audio in is not supported.
 - c. Connect the included USB cable to the connector labeled **USB** on the rear of the HD-PVR. Connect the other end of the USB cable to any rear-panel USB port on the back of the Marquee player.

If you desire to utilize Standard Definition video, you may use the included component video cable as described in step (above), or you may do one of the following (refer to Figure 2, below).

- a. Connect the source video to the front panel **S-Video In** or **Composite Video In**. Note that these cables are not provided.
 - b. Connect the source audio to the front panel red & white RCA-type **Audio In** connectors. Note: When using S-Video or
 - c. Composite, you must utilize the audio connectors on the front of the HD-PVR.
 - d. Connect the included USB cable to the connector labeled **USB** on the rear of the HD-PVR. Connect the other end of the USB cable to any rear-panel USB port on the back of the Marquee player.
- Turn power onto the video source.
 - Turn power onto the displays.
 - Turn power onto the Marquee media player.

- Instruct the client which connectors were used (component, S-Video or Composite). This is critical for the client to properly configure the Marquee software for playback.
- Should you require assistance, call DMX Customer Service at 800-345-5000

Please see diagrams below.

Figure 1: Rear Panel

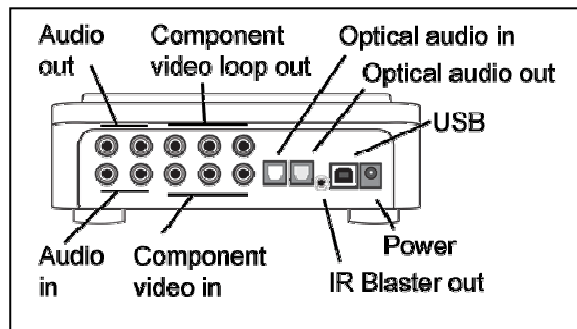
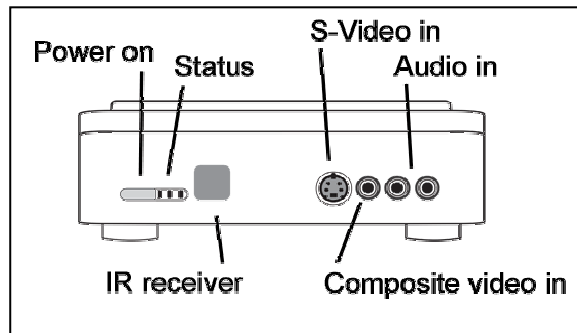
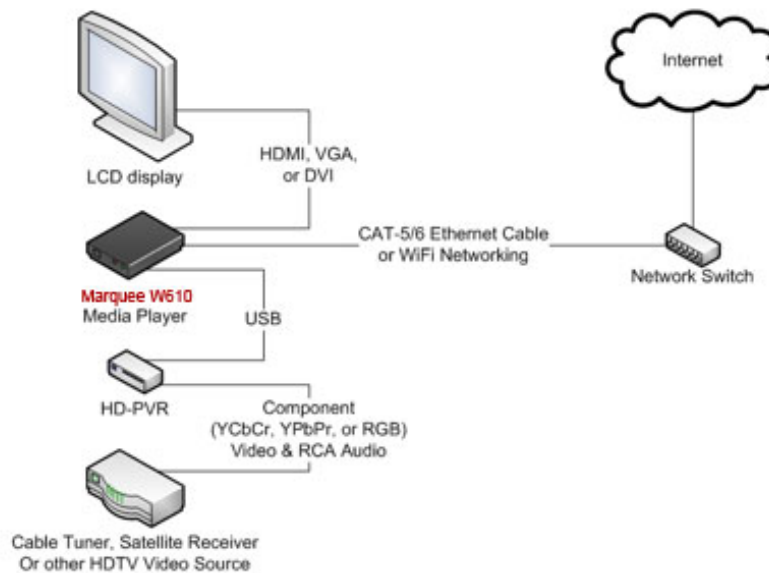


Figure 2: Front Panel



Hauppauge HD-PVR Installation



Notes:

1. Media player should be powered by dedicated (non-switched) source.
2. Display should remain on at all times to maintain synchronization with media player. If it must be powered down during off-hours, VGA connectivity should be used, or a device to retain the display's EDID should be inserted between the media player and display.
3. HD video source must output via component video receiver outputs via component video. Both digital and analog component video are supported. If HDMI or DVI are the only available HD sources, a component converter is required.
4. Display resolution must be determined to configure the Marquee media player output to match highest supported resolution. Technicians should be prepared with this information when calling DMX Customer Service.

Quick Start Installation of W610 player

NOTE: if this is the first time you have installed a Marquee player, you may want to review the current Marquee Technical Guide located in the support section of marquee.dmx.com.

Placement - Install the media player:

- a. In a discrete, secure location with minimal access
- b. On a non-switched, grounded power outlet
- c. With convenient access to a broadband internet connection

1. Video/Audio

Video

Connect video cable (HDMI or VGA recommended) from the video screen to the appropriate port on the rear of the W610 player. (Monitor must be connected and powered on before powering the player.)

TV Pass-through (optional)

Refer to the instructions in the Marquee W610 Technical Guide.

Audio

HDMI - Player default. If the video screen is connected to the W610 player via HDMI, audio will play through the tv.

External amplifier / non HDMI - Connect a male 1/8" (3.5mm) connector cable (not included) to the GREEN audio connector on the rear of the media player. Connect the other end to the audio amplifier or display audio input. Contact DMX Customer Support at 1-800-345-5000 to configure the player's audio.

2. Network

The default network configuration uses a **wired** connection and **DHCP** network addressing. If this is the configuration you're using, connect an Ethernet cable to the player, and connect the other end to a broadband router. If a **static** IP is required, consult the networking section of the Marquee W610 Technical Guide.

Wireless - To configure wireless refer to the instructions in the Marquee W610 Technical Guide.

3. Power

Attach the external power supply to a grounded outlet. Attach the other end to the player. Your Marquee W610 unit should power on automatically. If not, press the power button on the front faceplate of the media player. The screen will be black for about 25 seconds while the player starts.

4. Call

The startup screen will verify Internet access or identify if there are any connectivity problems. Once the video, power, and network have been configured, call **DMX customer service** to confirm that network connectivity is set up properly.

We can be reached at 1-800-345-5000.

Audio Visual Best Practices Guide

monitors / displays

If the client does not have an existing video distribution solution, most screens on the market will work, however the recommendations below will help in the decision on types of monitors to use:

- LCD over Plasma
- Recommended resolution of 1080p and at least 60 Hz. video processing
- Inputs HDMI, DVI and RGB (PC Input)

If the client has an existing video distribution solution, the recommendations below will help ensure the monitors take maximum advantage of Marquee:

- Determine the resolution supported by each monitor. Older monitors may be ED and not HD, with no HDMI inputs and DVI only.
- Verify the video processing speed is at least 60 Hz.
- Identify inputs that can / will be used.
- Be prepared to use additional engineering solutions, e.g., if you find data not being retained in the monitors from nightly resets.
- For best results, all displays connected to a single player should be the same brand, make and/or model, e.g., size will not matter if this is followed. However, disparate brands meeting the requirements, etc., may be used.

distance from Marquee player to monitor / display

The second area of concern to any digital signage solution comes with the distance from player to each monitor. Depending on the processor in each monitor, distances of less than 100 feet may not need any amplification of signal and may be able to split signal to three monitors using VGA two way splitters and high quality VGA cables. To manage any situation that is more than three monitors and or a distance of over 100 feet we suggest using one of the approved methods tested below:

Distances have been tested with splitters in two methods. First is with a standard VGA splitter. This will take the digital signal and split to two screens, and with additional splitter, the signal can be sent to three screens. Data can be sent without using distribution amp under 100 feet and should maintain aspect ratio in each monitor at refresh. The second method is with HDMI. This should be done on distances of less than 100 feet with a single matrix distribution system. The equipment tested was an Atlona AT-HD-V14 (1 X 4) with HDMI cables 1.3 and higher to ensure proper transfer to monitors. For distances over 50 feet, use an HDMI cable with built in signal repeater. Distances of 100 feet or longer may require additional engineering and certain products and being released as the test was completed and at this writing.

The most common digital signage problem will be either loss of signal (connection or amplification) and will require additional engineering. AV integrators should adhere to best practices (**scenarios 1 and 2).

cables and distribution

The Marquee player supports various outputs. VGA, HDMI and DVI Cables are supported distribution methods. Cables prices can vary dramatically. Firefold Industries in Concord, NC (704 979 7100; www.firefold.com) has very competitive prices and usually will have many lengths in stock, including the new HDMI 1.4. Rapid run cables are also an excellent option for ease of quick connect attachments. In all systems with more than 3 monitors and / or runs of over 100feet, using CAT 5/CAT 6 is recommended.

Minicom is the recommended distribution amplifier of VGA over 100 feet or when 4 or more monitors are used. They can be expanded to more than eight outputs using an additional Broadcaster. The DS3000 was tested using short and long receivers. Each receiver has a gain that can be adjusted once the signal gets to the monitor. These settings will ensure the signal will be refreshed once the Marquee player completes maintenance daily. This system will need a higher level of competency of the integrator. Power at each monitor needs to accommodate the receiver as well.

Troubleshooting

If using straight VGA, DVI or HDMI cable, check connection at source and monitor to verify signal completion. Look at pins in male end of connector to verify that each is erect and in position. This should solve most signal transfer problems.



If using distribution amplifier (approved MINICOM, FSR and Altona devises), refer to troubleshooting guides in product literature. Enclosed are brochures and tech sheets for approved tested equipment.

HDMI or "High-Definition Multimedia Interface," is an uncompressed digital audio/video format that has become the standard connection for HDTVs. A "passive" or non-amplified HDMI cable, can achieve distances of 40 to 50 feet. Beyond this distance, an "active" cable, such as an EQUALIZER or REPEATER cable should be employed in order to deal with signal loss. All of our HDMI cables are "high speed" Category 2 cables, and are certified to the industry standards.

A VGA Splitter cable provides a fast and easy way to simultaneously connect 2 monitors to a Marquee W610 via the VGA output.



- Splits one VGA signal into two VGA signals



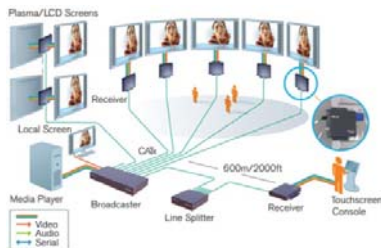
10 feet to 100 Feet Double Shielded SVGA Male to Male With Dual Ferrites – Black

- Ferrites protect against EMI/RFI interference
 - Constructed of premium grade double-shielded video cable
 - Three internal coax lines for red, green and blue
 - 125% foil shielding; 90% tinned copper braid shielding
- Ideal for video presentation devices, video splitters and KVM switches



The Atlona AT-HD-V14 1x4 HDMI (Ver. 1.3c) distribution amplifier is a unique device that allows users to connect any digital video source with up to 4 digital HDMI displays. AT-HD-V14 splits HDMI signal between up to 4 outputs without signal loss, maintaining high resolutions up to 1080p or 1920x1200.

The test of any leading “DS last mile™” network is whether it can deliver high-definition video and stereo-audio from a single player, over CAT5/6/7 cable, to multiple plasma/LCD screens located up to 600m/2000ft away. The most comprehensive system of its kind, DS Vision combines the longest range available with full bi-directional control and the industries’ only GUI based management program.



The only system on the market to include fully bi-directional RS-232 communication, DS Vision enables you to send a command and also query the screen and get a response. No more walking from screen to screen. Remotely monitor screen operation time, view console. Monitoring screen time helps you to minimize screen wear and tear, allowing you to double or even triple the life of your digital signage network.

Place your screens in the most optimal locations to achieve the widest public coverage. Keep your players out of sight and harm’s way where they can easily be used, serviced and maintained, significantly reducing network downtime. The Dual Cascade Receiver Unit (DCL) for the DS Vision significantly expands the system’s potential by supporting not only star configurations, but also daisy chains. With the DCL, you can cascade up to ten units in a row enabling easier positioning of screens and reduced cable clutter. In addition, the DCL has double the power of a regular video receiver allowing you to put two back-to-back screens on a single unit while still controlling each screen separately.





DVI Doctor features two female DVI connections that are designed to be used with DVI cables or DVI to HDMI cables up to 10 meters (33 ft.) long. Dimensions: 1.5" H x 2.6" W x 2.2" D.

Note: does not work with HDCP protected media (e.g. Blu-ray movies). The device is utilized in situations where a client needs to power off the display screen at any point during the day, but they do not want to have to reboot the player.

Tested and Approved for Best Practices

Scenario 1

1 Marquee player to 1 screen; distances 3 feet to 50 feet

- VGA output from Marquee to VGA Input on Monitor
- DVI output from Marquee to DVI Input on Monitor
- HDMI output from Marquee to HDMI Input on Monitor

Scenario 2

1 Marquee player to 1 screen distances of over 50 feet to 100 feet

-In all instances where the Marquee player can be installed using small L brackets on the back of the monitor, install network cable for Internet connection from router to Marquee Player connect to monitor using VGA, DVI or HDMI patch cable. DVI and HDMI may need cables with repeaters built in and should be used.

Scenario 3

1 Marquee player to 2 screens; distances 3 to 50 feet

-VGA output from Marquee to VGA 2 way splitter with 2 VGA cables with 1 input into each monitor. In some instances the distance can be longer than 50 feet, but should only be split once to two monitors.

-HDMI output from Marquee to HDMI splitter (Atlona AT-HD-V14 1x4 HDMI) that will feed input on each monitor with HDMI patch cables to each monitor.

Scenario 4

1 Marquee player to 2+ screens; distance 3 to 50 feet

-VGA output from Marquee to DS VISION 3000. DS VISION 3000 CAT5 output to each monitor. Cable runs will determine which DS VISION 3000 receiver is used. Runs of less than 150 feet will use the short receivers and runs of over 150 feet will need to use the long receivers. Once the receiver has been chosen and placed at the monitor, connect to monitor with short VGA patch cable.

HDMI output from Marquee to HDMI splitter (Atlona AT-HD-V14 1x4 HDMI); choose HDMI patch cables that correspond to the lengths needed. If under 50 feet, cables without repeaters may be used, but are recommended for best practice. Connect feed to input on each monitor.

Scenario 5

1 Marquee player to 2 or 2 or more screens; distances 50 feet or more

-See scenario 4 and use appropriate cables. HDMI solutions of over 50 feet to 100 feet, use Atlona AT-HD v14 and adhere to best practices. Resolutions will decrease if distances exceed the above scenarios from 1080p to 720p, and lower as the distances increase.

Scenarios 1 through 4 are considered Best Practices and will ensure best resolution to monitors. Most manufacturers offer advanced solutions and should be utilized.