

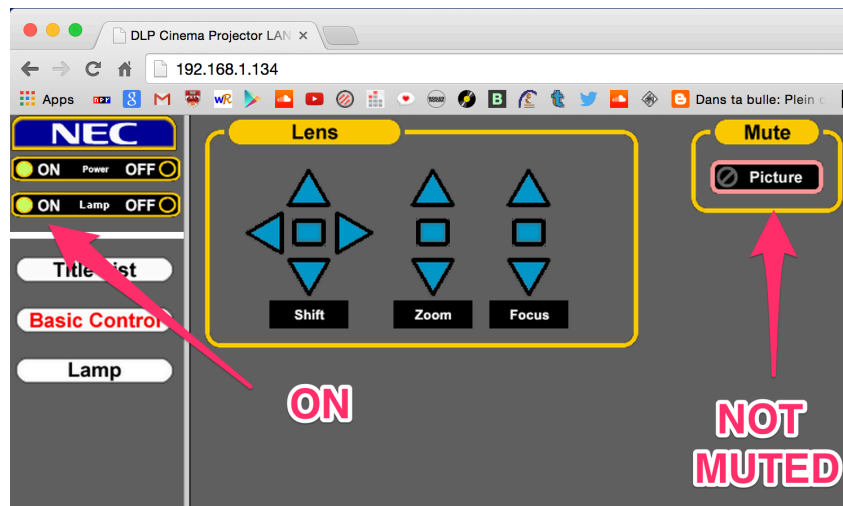
Multimedia Playback Guide (22)

SYSTEM BOOTING

1. On the AMX touchscreen, hit “Turn on system and projector”
2. Turn on Mac Pro and both displays
3. Open a browser and drag a window to the right into multiview to test the system
4. Turn on Roland video switch, press the top row button that matches your source
5. When the projection system has finished booting, use the AMX touchscreen to set the source to HDSDI, press “Go Live”, and make sure the video is “unmuted”

TROUBLESHOOTING

- Make sure the image is not muted and HDSDI is selected
- Make sure the lamp of the projector is actually on by opening the **Projector** bookmark in Chrome. On the top left side there will be a little button that says Lamp and it will have on and off buttons on either side of the label. Also make sure the “Picture” is not Muted.



Focusing / Aligning

1. Open the Projector interface in Google Chrome
2. Click the “Basic Control” tab on the left
3. Lens shift: Use the sets of lens arrows to move the lens

4. You can use the following website for general focusing:
<https://www.aaarpinball.com/VideoTest/p1080.htm> (Choose and click the pattern for a full screen display).
5. If there is content available, focus the projector using the largest image

SETTING UP SOURCES FOR THE MEGASCREEN

Laptop on Stage → Screen

1. Grab a HDMI to SDI Converter with power adapter, a long SDI Cable, an HDMI cable with dongle, and a power strip. When using SDI cables, be careful not to kink them.
2. Connect your laptop's dongle and HDMI cord to the HDMI INPUT
3. Connect the long SDI cable between the SDI OUTPUT and an AVP's video tie line on or off stage. Take note of the V## you plug into.
4. Go to the amp room and patch that AVP V## to V37 (which sends it to FOH)
5. On the Roland video switcher's top row, select V37. It should light up red

Laptop at FOH → Screen

1. Plug in a Laptop to ROLAND HDMI 1 or ROLAND HDMI 2
2. Select correct input on the top row of the Roland

Mac Pro → Screen

1. Drag content from the left monitor to the second screen on the right
2. Select Mac Pro input on the top row of the Roland
3. If using QLab, select display #2 for each cue

Camera Onstage → Screen (IMAG)

1. Find a Camera with an SDI output. If one is unavailable, use a converter from the confidence case to convert from HDMI output into an SDI output.
2. Plug this SDI output into an AVP V## on or offstage
3. In the amp room, patch this SDI V## into V37 (to FOH)
4. V37 will send your signal to Roland.
5. On the Roland video switcher's top row, select V37. It should appear on the screen if AMX is on and HDSDI is selected.

TROUBLESHOOTING

My stage patch isn't working properly!

1. Check to make sure V37 SDI cable at FOH is connected to Input 1 on the Roland Video Switcher.
2. Check the physical patch in the amp room and on stage.
3. Check to make sure you have the correct converter and that it's powered on.
4. If you are having problems with a confidence monitor, refer to the CONFIDENCE MONITOR section in this guide after checking all patches.

CONFIDENCE MONITORS

Converters

Why are we converting between SDI and HDMI in the first place? Why can't we just use one format? HDMI can be thought of as more of a consumer level format. You use it to connect your laptop or computer to a monitor or a small projector. SDI is used in higher profile professional hardware, like our NEC Projector or video cameras, and for transporting video signals over long distances without signal degradation.

There are two types of video signal converters in the hall:

- AJA HA-5 HDMI-HD SDI
- BlackMagic HDMI-SDI

Stage Patch Points

In the amp room, you can patch video signals to feed confidence monitors from FOH, project laptop content from stage level, or to help get multiple video cameras onto a streaming platform. The default video patches between stage and FOH are:

- V37 connects the down stage left floor box straight to Roland
- V28, V29, V30 are utility tie lines in the video capture rack that can be used in either direction.

Copy of Mega-Screen → Confidence Monitor

1. Set up your confidence monitor on stage with power, and grab a SDI to HDMI converter with power, an HDMI cable, and long SDI cable
2. Connect the HDMI input of the display to the HDMI output of the converter
3. Run the SDI cable from the converter's SDI input to an AVP at stage, or run it directly to the patch bay in the amp room. Take note of the V## patch point.
4. In the amp room, patch that confidence monitor V## to V28, V29 or V30
5. Patch ROLAND to V28, V29 or V30 at rack in video capture world

6. You should see a copy of the megascreen content on your confidence monitor.

Laptop at FOH → Confidence Monitor

1. Grab a HDMI to SDI Converter with power adapter, a long SDI Cable, an HDMI cable with dongle, and a power strip. When using SDI cables, be careful not to kink them.
2. Connect your laptop's dongle and HDMI cord to the HDMI INPUT
3. Connect the long SDI cable between the SDI OUTPUT and V28, V29 or V30 at rack in video capture world
4. Set up your confidence monitor on stage with power, and grab a SDI to HDMI converter with power, an HDMI cable, and a long SDI cable
5. Connect the HDMI input of the display to the HDMI output of the converter
6. Run the SDI cable from the converter's SDI input to an AVP at stage, or run it directly to the patch bay in the amp room. Take note of the V## patch point.
7. In the amp room, patch that confidence monitor V## to V28,V29 or V30
8. You should see a copy of your FOH Laptop on the confidence monitor.

Two Confidence Monitors, Mirroring projection

1. Complete one of the above sections on *Copy of Mega-Screen* and *Laptop at FOH*
2. Take your input (roland or the converter) into the rack at video world and use the send it down V28, V29 or V30. Patch it to an AVP where needed
3. Use a Y-splitter to split the SDI feed at the AVP
4. Follow the instructions in the above sections for the second patch to the second confidence monitor

Three Confidence Monitors

Send three different laptops to three independent confidence monitors.

1. One laptop from FOH via V28, V29 or V30 to stage. From a stage AVP, use an SDI to HDMI converter at the monitor.
2. Two laptops, backstage left and right, run direct to monitor. You can either use long 25' HDMI cables from the cage, or VGA cables and dongles.

LOBBY DISPLAYS

Laptop Content → Lobby Monitor

Use an HDMI cable to connect a laptop to the Crestron input at the SM console (or alternatively at FOH). Use the SM Crestron touch screen controller to route the content to the appropriate lobby monitors.

1. Press Technician at the bottom right corner of the screen
2. Enter the password “5540” and press *UNLOCK* to enter the routing page
3. First choose the Source: *Stage Mgr. Input*
4. Then select the Destinations: *LCD Auditorium*
5. You will now see the name of the Source under each Destination
6. If you want to send the signage to the other two displays in Gidwitz Lobby, also select *LCD Blackbox* and *LCD Studio* when assigning destinations

Copy of Screen → Lobby Monitor

The only real option is to route a laptop through an HDMI splitter at FOH. Send the first output straight to the projector via Roland, while sending the second output to the Crestron HDMI input under FOH. At the SM console, within Technician Mode, route *In House Mix* input to the lobby displays.

AUDIO FOR VIDEO

To send a video’s audio from the Roland Mixer, use the **Roland Input** on the SC48, which is a direct send.

- To set this up in the SC48 patchbay, still choose the INPUTS, CHANNELS, and FOH TABS, and make sure Roland audio is patched to Ch 23-24.
- If you are still not getting audio for video, make sure the laptop’s audio output is configured properly in system preferences.

The **Mac Mini**, which is usually used for house music, is digitally patched to SC48 FW 1-2 with a firewire 400 cable. The soft patch for the Mac Mini is located in Patchbay > Inputs tab > Pro Tools tab > FW 1-2 to Mac Mini L&R.

Line Arrays and Surround Sound

When you power on the AMX projection system, you can also power on the cinema audio system which includes the line arrays and the surround sound speakers.

The **line array**, controlled through matrix 1 and 2 (L/R) and matrix 3 (C) in the output section of the SC48, should only be used in cinema playback applications. A microphone patched to these speakers will create feedback because of the angle of the speakers and their placement on stage. Make sure the speakers are flown in before use.

The **surround sound speakers**, controlled through matrix 5 & 6 from the output section of the SC48, can be very useful in live sound when you need to push a quieter

instrument or lead vocalist above a loud band. We do not have control over individual speakers like a 5.1 or 7.1 system.

ROLAND VIDEO MIXER

The four buttons in each row correspond to the four inputs of the Roland

- In 1: V37 is the downstage left floor pocket (lectern laptop)
- In 2: HDMI1
- In 3: HDMI2
- In 4: Mac Pro

Program and Preview Buttons

- The top row of buttons indicate which input is currently selected to be on screen. This “Program Feed” can be seen within a GREEN BOX in the multiview monitor.
- The bottom row of buttons indicate what is “on deck” to be shown on screen next. This “Preview Feed” can be seen within a PURPLE BOX in the multiview monitor.

The PiP and Split Buttons

We don’t often use the PiP and Split buttons, but you should know what they do, and how to get out of them if you accidentally turn them on.

- PiP stands for picture-in-picture. Tap this button to add a second feed as a picture within the main feed.
 - The main feed will be the top row of red buttons and the smaller picture-in-picture will be the lower row of green buttons.
 - You can change the position of the PiP using the two knobs on the left.
- The Split button shows two feeds side by side.

Dip to Black and White Knob

You can use this feature to fade to black in a smooth and professional way. This can be used when you need to unplug a laptop or change a PowerPoint presentation.

Video Mixing

- Mix Buttons are used to decide what kind of mix you want: Fade, Cut, Wipe, etc.
- Mix Bar is used to fade out the top row input and fade in the bottom row input.
 - Fades with the speed you move the bar in the style of the mix button.
 - For example, if you want to switch from V37 to the Mac Pro, you have V37 selected in green on the top row and the Mac Pro in purple on the bottom row. As you move the mix bar, the Mac Pro will fade in slowly on screen.

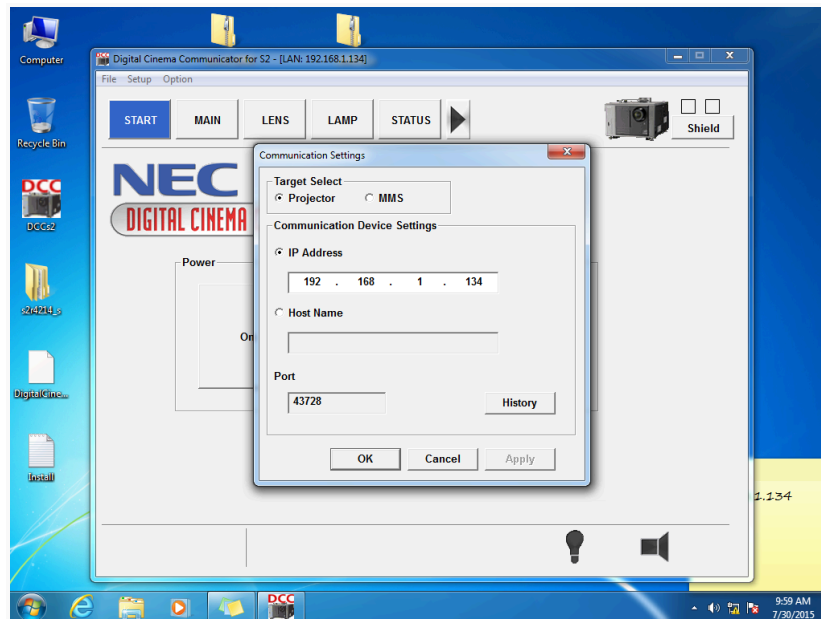
- Mix Arrow Button works the same way as the mix bar but with a pre-timed fade. This is often more professional than a fade using the mix bar.

PROJECTOR ADJUSTMENTS

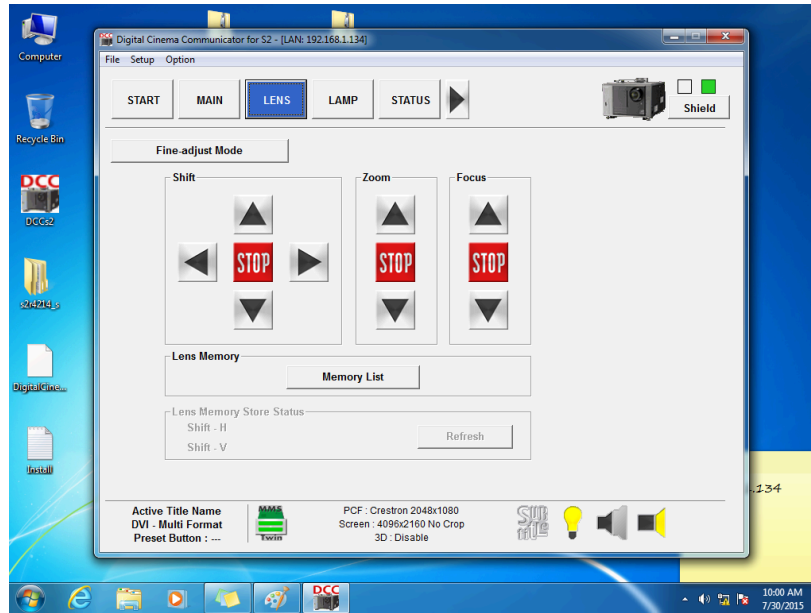
Refocusing with presets

You can do all the same things you can do from the web interface, and more, from the projection booth laptop.

1. Boot up the full projection system using the AMX touchscreen.
2. Pull out the screen drawer (the black handle on the rack unit above the computer). Be very careful, the drawer is broken and the laptop can be pulled out of the rack.
3. Open the laptop and check to make sure the computer is on. If it's not, push the red power button on the right and the fan will start up.
4. Double click the **DCCs2** icon on the desktop.



5. In the communication settings window, make sure “**Projector**” is selected. The IP Address is: 192.168.1.134 Port is: 43728. Click OK to enter.
6. Once the communication loading bar has completed and closed, click the **lens** tab at the top.
7. From the lens tab you have access to the focusing and resizing adjustment arrows, as well as Fine Adjust mode, and presets.



Saving a Preset

Make all the image adjustments you need before you save.

1. Click the **Memory List** button to access the list of presets
2. Click a new row under all the ones that currently exist
3. Click **Entry**, and name your preset
4. Once it has a name it's automatically saved
5. Test the save by pulling up another preset and then switching back. If it did not save properly, it's always better to redo the work now.

Loading a Preset

1. Click the **Memory List** button to access the list of presets
2. Select the preset you want to load
3. Click the **Test** button. The preset will begin to load

Troubleshooting the Projection System

You are only approved to use Stage Sources on the AMX panel:

- Booth sources can require more setup and configuration to achieve proper setup and Projectionists should be hired in advance if booth sources are needed.
- If you need to use a booth source, don't just go for it; contact Remy for directions.

If the projector needs to be reformatted to a new surface:

BE CAREFUL – THE PROJECTOR CONTROL SYSTEM CAN PERMANENTLY DISABLE THE PROJECTOR IF THE INCORRECT CONTROLS ARE OPERATED. IF YOU ARE IN ANY WAY UNSURE OF WHAT YOU ARE DOING, CONTACT REMY OR ERIN.

1. First turn the system on, select the source you wish to use, and “Go Live”.
2. Go to the projection booth and open the laptop in the rack:
 - If you are getting a UNIMUX options list, scroll up to “Computer” and press enter. Doing this should bring you to the desktop. Double click the “DCCs2” icon.
 - If you are getting only black screen: Press “CTRL” and “~” at the same time; this should bring up the UNIMUX options -> Computer -> Enter
 - If the system is still black and unresponsive, press the red power button located just below the laptop in the rack (on the right hand side) and wait for the system to turn on.
3. Once you’re into the Digital Cinema Communicator, it will show a pop up screen with the Communications Settings:
Target: Projector ---- **IP address:** 192.168.1.134 ---- **Port:** 43728. If so, press OK.
4. Choose the LENS button at the top. Now you have 2 main options, either:
 - Choose a preset from the Lens Memory List (Projection Screen or Bullshit Cyc)
 - To load a Lens Memory, click the Lens Memory tab, select the settings you would like to recall, and press the “Test” button.
 - Or, use the Shift, Zoom and Focus options for your own focus:
 - The Shift, Zoom and Focus arrows, when pressed, will continue movement until you press the STOP button for each category
 - Or, choose Fine-adjust Mode for fine tuning adjustments