

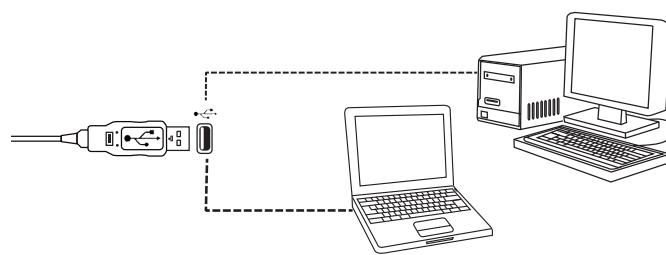
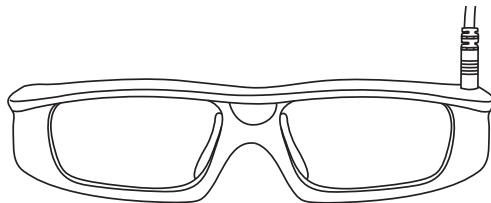


EQUIPMENT CHECKLIST

- 1. 3D NOW™ Theater Processor (3DN-200)
- 2. 3D NOW™ Active Shutter Glasses (3DN-6000)
- 3. 3D NOW™ RF Emitter (3DN-100)
- 4. (2) High Speed HDMI Cables
- 5. Theater Processor 5V Power Cable
- 6. Eyewear Power Cable
- 7. 3-PIN VESA Cable
- 8. USB/Service Cable



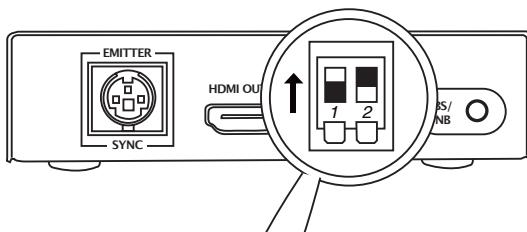
Before beginning setup, charge the 3D NOW™ Active Shutter Glasses (3DN-6000) for 4-5 hours. To charge, plug the provided power cable into the top left of the glasses and the other end into an active USB port.



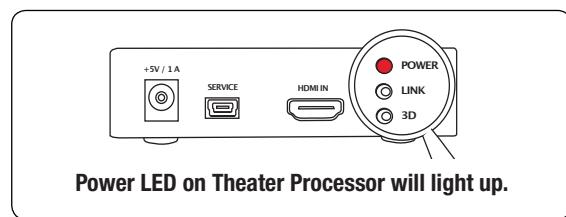
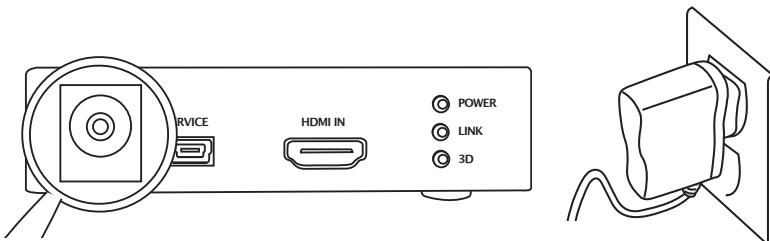
INSTALLATION AND SETUP INSTRUCTIONS

NOTE: When starting the initial setup, please do not include any other device(s) other than the Source (player), 3D NOW Processor and the Display

1. First, make certain that DIP Switch#1 is in the UP position on the Theater Processor (3DN-200). DIP Switch #2 is inactive.

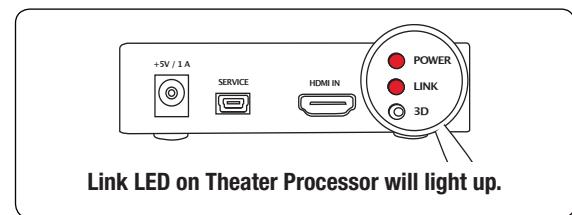
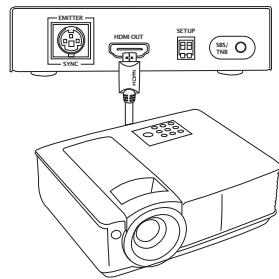
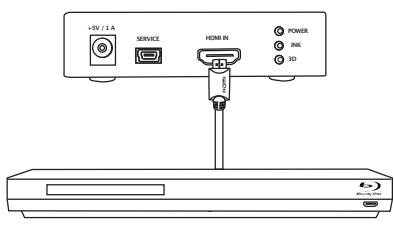


2. Insert the 5V power cable into the Theater Processor (3DN-200) and plug into a standard outlet. Please confirm that the Power LED on the Theater Processor (3DN-200) is turned on.



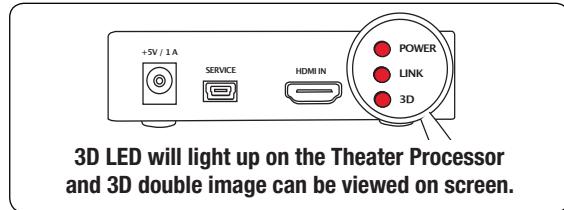
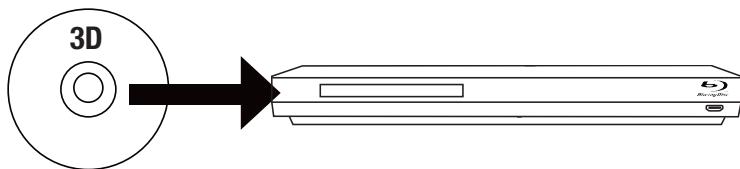


- 1.
2. Connect one High Speed HDMI Cable from a 3D source (3D blu-ray, PS3, etc) to the HDMI "IN" on the Theater Processor (3DN-200). Connect the second High Speed HDMI Cable from the HDMI "OUT" on the Theater Processor (3DN-200) to a display (Projector, HDTV, etc). Make sure both the display and the 3D source is turned on and the display is set to the same HDMI input that the High Speed HDMI cable is inserted into.



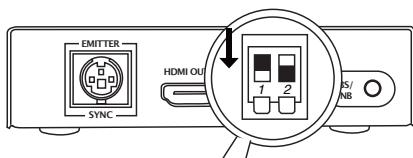
Please confirm that both the "POWER" LED and the "LINK" LED are on. If not, please do the following:

- a. Confirm that all HDMI cable connections are plugged in all the way.
- b. Confirm that the 3D player "source" and the Display are turned ON.
- c. Confirm that the Theater Processor (3DN-200) is plugged in and turned ON.
- d. If necessary, unplug the power cable from the Theater Processor (3DN-200) and plug back in. This resets the unit.
3. Using the 3D source, begin playing 3D content (3D blu-ray, 3D games, 3D broadcast, etc). With some players and displays, there may be a delay of 1-2 minutes before content is shown.



Please confirm that all three LEDs (POWER, LINK, and 3D) on the Theater Processor (3DN-200) are ON.

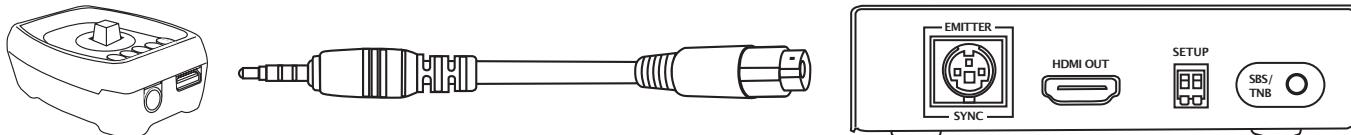
4. If you do not see 3D content on the Display, and/or are receiving an error message (Example: "UNSUPPORTED FORMAT"), move DIP switch #1 to the DOWN position. Remove power cable from processor and reinsert to reset connections.



If you now see a 3D image on the display, you've identified that the display can only accept less than 120Hz signals and DIP Switch #1 must remain DOWN in order to view 3D content.

SETTING UP RF EMITTER AND ACTIVE SHUTTER GLASSES

1. Attach RF Emitter (3DN-100) to the Theater Processor (3DN-200) using the supplied 3-PIN VESA cable as shown below.

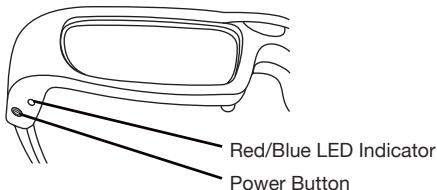


BLUE LED lights will illuminate on the emitter, indicating it is functioning. If Blue LEDs are not visible on the Emitter, perform the following checks:

- a. Confirm that the Theater Processor (3DN-200) is turned on.
- b. Confirm that the mini RCA plug is fully inserted into the RF Emitter (3DN-100).
- c. Confirm that the 3-PIN DIN connector is correctly inserted into the Theater Processor (3DN-200)

SYNCING THE GLASSES

2. Press down and hold the Power Button on the Active Shutter Glasses (3DN-6000) for about 2 seconds and release. The power button is located on the bottom right hand corner of the glasses. The glasses will sync with the RF Emitter (3DN-100) and 3D content will be visible through the glasses. Please perform the same process for each set of glasses to be synced with the emitter.



OPTIMIZING FOR BEST CLARITY

3. Once the glasses are synced to the emitter, quickly pressing and releasing the power button will change the image clarity. This should improve the clarity and depth of the image. If it does not, quickly press and release the power button again to switch back to the original image.

The Theater Processor (3DN-200) is now setup and the eyewear/glasses (3DN-6000) are properly synced to the RF Emitter (3DN-100). Next, please refer to the "3D NOW™ FINE TUNING SETUP" Instructions in order to Fine Tune and Customize the quality of your 3D viewing.

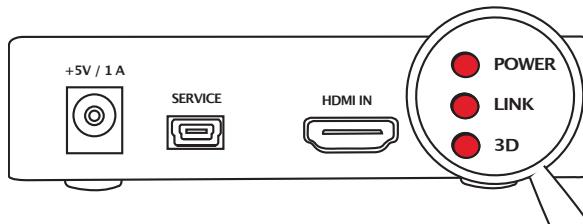
CONTINUE ON TO 3D NOW™ 3D FINE TUNING SETUP (NEXT PAGE)



FINE TUNING OR CUSTOMIZING OF YOUR 3D VIEWING

To customize or improve your 3D viewing experience, the 3D NOW Active Shutter Glasses (3DN-6000) are able to be “FINE TUNED” for your particular Display type (LCD, LED, DLP, CRT, PLASMA) and room environment(s) by adjustments made on the RF Emitter (3DN-100).

Before making any adjustments to the default settings on the RF Emitter (3DN-100), please make sure that you have completed the STEPS in the “3D NOW™ THEATER SET UP GUIDE”. Please check your Theater Processor (3DN-200) to make sure that ALL 3 LED lights are ON.



If all 3 LED lights are NOT “ON”, please refer back to the 3DN-200 Theater Set Up Guide.

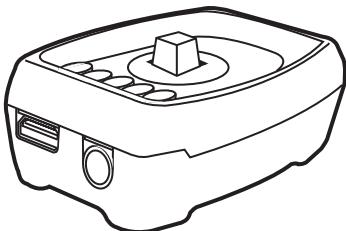
OVERVIEW OF 3D NOW™ RF EMITTER (3DN-100)

The RF Emitter (3DN-100) communicates directly with ALL 3D NOW Eyewear that has been “sync’d” to that Emitter. Instructions on how to “Sync” the Eyewear/Glasses to the Emitter are explained in the SET UP GUIDE.

The Emitter provides natural viewing of 3D content from any angle in the room. For larger rooms, the Emitter will allow the 3D NOW Active Shutter Glasses (3DN-6000) to operate up to 300 ft (100 meters). This is particularly beneficial if the Emitter will be located in a different location from the Display.

The primary reason for making adjustments to the Emitter default settings is to customize your viewing experience. These adjustments will allow you to obtain the optimal viewing available for your Display in its current environmental setting.

By “Fine Tuning” the Emitter settings you will be able to do the following:



- Adjust the Brightness/Darkness of displayed content
- Adjustments to the color tone
- Increase/Decrease the “depth” of the 3D imagery
- Minimize FLICKER and GHOSTING effects.

IMPORTANT: To obtain the best possible viewing of 3D content, we recommend that you turn off all lights and view in a darkened room or area. Our 3D NOW Theater Processor is designed to work with almost all HD display types. However, some displays are more affected than others by the ambient light in the viewing area.

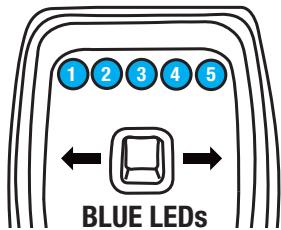


LET'S REVIEW THE BASIC OPERATION OF THE Emitter:

The Emitter functions by moving the joystick as follows:

LEFT/RIGHT – Moving the joystick either LEFT or RIGHT allows you to set the Emitter to the specific DISPLAY type that you are using: LCD, LED, DLP, CRT, PLASMA.

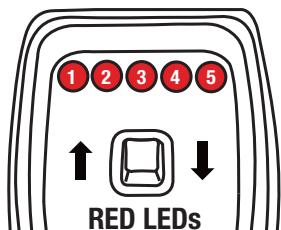
Adjusts Display Type



Joystick Left and Right (BLUE LEDs)		
1 Light	All Displays	$\geq 120\text{Hz}$
2 Lights	LCD/LED	<120Hz
3 Lights	LCD/LED	<120Hz
4 Lights	Plasma	<120Hz
5 Lights	DLP/CRT	<120Hz

UP/DOWN – Moving the joystick either UP or DOWN allows you to adjust the brightness, color tone, 3D depth, and minimization of any flicker and/or ghosting effects.

Adjusts Brightness



Joystick Up and Down (RED LEDs)	
1 Lights	DARKEST
2 Lights	
3 Lights	
4 Lights	
5 Lights	BRIGHTTEST

DETERMINING THE REFRESH RATE (Hz) FOR YOUR DISPLAY:

Now you are ready to begin the Fine Tuning process. There are 2 parts to this process:

FIRST

You will need to confirm the Refresh Rate of your Display to determine if it is $\geq 120\text{Hz}$ or if your Display refresh rate is < 120Hz.

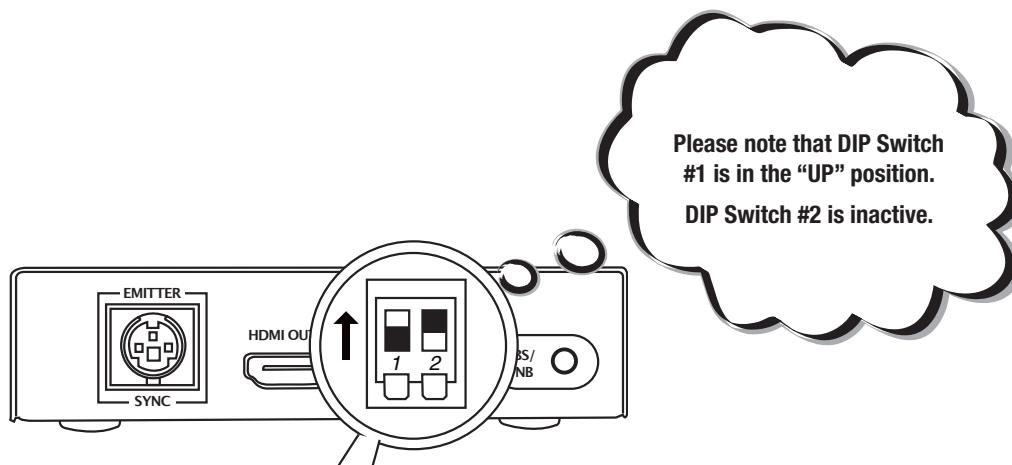
SECONDLY

You will then need to refer to the "FINE TUNING INSTRUCTIONS" for your specific DISPLAY TYPE (LCD, LED, DLP, CRT, PLASMA). Display types are the same for HD Monitors, televisions, and projectors.



DISPLAYS OPERATING AT OR ABOVE 120Hz

To confirm if your Display frame rate is 120Hz or greater, please look at the DIP switch located on the Theater Processor (3DN-200). If after completing the Initial Set Up procedures and the DIP Switch #1 is in the “UP” position and you are viewing a 3D image on your display, this confirms that your Display frame rate is 120Hz or greater.



In most cases, no fine tuning of the 3D image viewing will be required.
It is recommended that you simply set the Emitter to the following for **ALL display types**:

ONE BLUE LED LIGHT



**120Hz
or Greater**

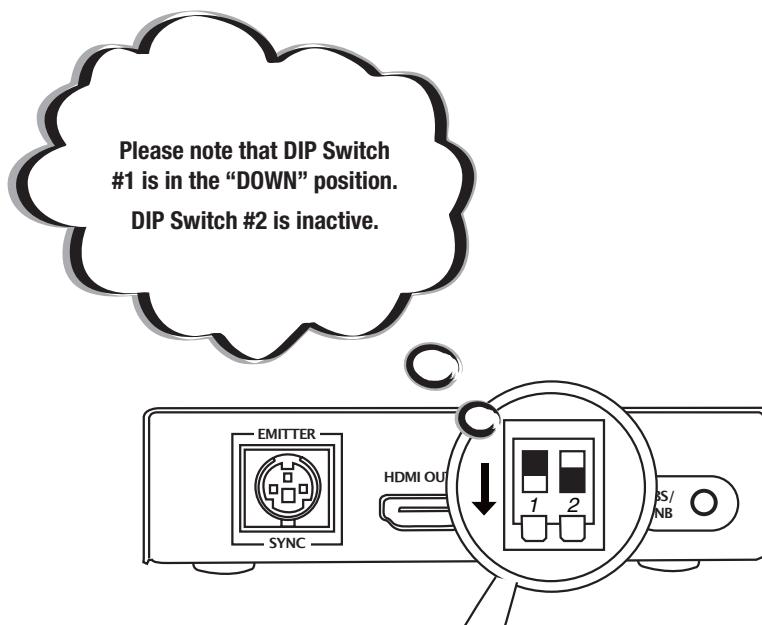
ONE RED LED LIGHT



If you are not getting a 3D images with Dip Switch #1 in the “UP” position, your display is operating under 120Hz. Please follow the setup instructions for refresh rates under 120Hz on the next page.

DISPLAYS OPERATING BELOW 120Hz

To confirm if your Display frame rate is under 120Hz, please look at the DIP switch located on the Theater Processor (3DN-200). If after completing the Initial Set Up procedures and DIP Switch #1 is in the “DOWN” position and you are viewing a 3D image on your display, this confirms that your display frame rate is under 120Hz.



For those displays with frame rates under 120Hz, your 3D Picture Quality can be “fine tuned” through adjustments made on the Emitter (3DN-100). The adjustment options available to you are determined by your Display Type as follows:

- LCD/LED (PAGE 8)
- DLP/CRT (PAGE 9)
- PLASMA (PAGE 10)

**FOR DISPLAYS FUNCTIONING AT LESS THAN 120Hz,
REFER TO THE **DISPLAY SPECIFIC** FINE TUNING GUIDES ON THE NEXT FEW PAGES.**



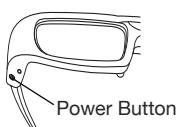
LCD/LED DISPLAYS (UNDER 120Hz) 3D NOW™ Emitter Fine Tuning Instructions

DISPLAY TYPE: LCD AND LED, Frame Rate < 120 Hz - INCLUDES: MONITORS, TELEVISIONS, AND PROJECTORS

Please make sure that you have completed the following before going forward:



- A. Completed all steps indicated in the Set Up Guide,
- B. Reviewed how to operate the Emitter as detailed in "Customization of Your 3D Viewing"
- C. You have verified that your Display frame rate is <120 Hz
- D. Turn Room lights down. It is best to complete fine tuning in a dark environment
- E. Make sure that your Glasses/Eyewear are ON.

1.  **FIRST**, To enter the Emitter Fine Tuning mode, press the joystick in any direction. LED#1 and LED #5 will quickly flash PURPLE indicating that you are in the Fine Tuning Mode.
2.  **NEXT**, press and hold the joystick moving to the LEFT or RIGHT until **2 or 3 BLUE LED** lights are "ON". We recommend starting with 2 BLUE LED lights "ON". We will test with 3 BLUE LED lights shortly.
THIS SETS THE Emitter AND YOUR GLASSES/EYEWEAR TO LCD AND LED DISPLAY VIEWING.
3.  **NEXT**, move the joystick UP or DOWN. You will see 1-5 RED LED lights. Move the joystick slowly UP or DOWN while watching the 3D images.
This allows you to adjust the quality and brightness of the 3D images, and allows you to find the best setting to minimize any flicker and/or ghosting.
NOTE: Allow 30-60 seconds for your eyes to adjust each time a setting is changed.
4.  **Confirm Correct Polarity.** If the picture image seems distorted or a lack of 3D depth is observed, the polarity needs to be inverted. Gently press the ON/OFF button on the Glasses/Eyewear to switch polarity. To change polarity again, just repeat gently pressing the ON/OFF button again. If picture images are improved, this indicates that you have the correct Polarity. This may need to be done after each adjustment is made with the emitter.
5.  When Fine Tuning with some Displays, you may need to adjust the Display's picture properties. (Backlight, sharpness, brightness, contrast, etc.) Turn "OFF" the ADVANCE SETTINGS under the Display's picture properties if applicable.
6. Stop moving the joystick when you find the best setting. **We recommend that you write down on the below FINE TUNING TABLE the number of RED LED lights showing that provided the best viewing.**

Number of Blue LED Lights _____ Number of Red LED Lights _____

7. **NEXT, GO BACK to STEP #2 and set the Emitter to 3 BLUE LED LIGHTS and repeat steps 2 – 4.**
Identify whether the 3D viewing was best at the setting with 2 or 3 BLUE LED lights and then return Emitter to that Setting. We recommend that you write that setting down below as your new Default Setting.

Number of Blue LED Lights _____ Number of Red LED Lights _____

8. After finding the optimal setting for your Display, simply leave the Emitter alone and within 2 minutes of inactivity, the Emitter will then store that Setting as the new DEFAULT.

These new default settings will be retained even if power to the Theater Processor (3DN-200) is turned off. If you want to make changes again, simply repeat the process.



DLP/CRT DISPLAYS (UNDER 120Hz) 3D NOW™ Emitter Fine Tuning Instructions

DISPLAY TYPE: DLP and CRT, Frame Rate < 120 Hz

INCLUDES: MONITORS, TELEVISIONS, AND PROJECTORS

Please make sure that you have completed the following before going forward:

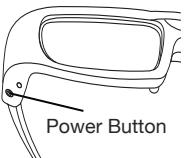
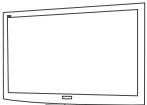


- A. Completed all steps indicated in the Set Up Guide,
- B. Reviewed how to operate the Emitter as detailed in "Customization of Your 3D Viewing"
- C. You have verified that your Display frame rate is <120 Hz
- D. Turn Room lights down. It is best to complete fine tuning in a dark environment
- E. Make sure that your Glasses/Eyewear are ON.

1. 
FIRST, To enter the Emitter Fine Tuning mode, press the joystick in any direction. LED#1 and LED#5 will quickly flash PURPLE indicating that you are in the Fine Tuning Mode.

2. 
NEXT, press and hold the joystick to the RIGHT until **5 BLUE LED** lights are ON.

THIS SETS THE Emitter AND YOUR GLASSES/EYEWEAR TO **DLP AND CRT** DISPLAY VIEWING.
3. 
NEXT, move the joystick UP or DOWN. You will see 1-5 RED LED lights. Move the joystick slowly UP or DOWN while watching the 3D images.

This allows you to adjust the quality and brightness of the 3D images, and allows you to find the best setting to minimize any flicker and/or ghosting.
4. 
Confirm Correct Polarity. If the picture image seems distorted or a lack of 3D depth is observed, the polarity needs to be inverted. Gently press the ON/OFF button on the Glasses/Eyewear to switch polarity. To change polarity again, just repeat gently pressing the ON/OFF button again. If picture images are improved, this indicates that you have the correct Polarity. This may need to be done after each adjustment is made with the emitter.
5. 
When Fine Tuning with some Displays, you may need to adjust the Display's picture properties. (Backlight, sharpness, brightness, contrast, etc.) Turn "OFF" the ADVANCE SETTINGS under the Display's picture properties if applicable.
6. Stop moving the joystick when you find the best setting. **We recommend that you write down on the below FINE TUNING TABLE the number of RED LED lights showing that provided the best viewing.**

Number of Blue LED Lights _____ Number of Red LED Lights _____

7. After finding the optimal setting for your Display, simply leave the Emitter alone and within 2 minutes of inactivity, the Emitter will then store that Setting as the new DEFAULT.

These new default settings will be retained even if power to the Theater Processor (3DN-200) is turned off. If you want to make changes again, simply repeat the process.



PLASMA DISPLAYS

3D NOW™ EMITTER FINE TUNING INSTRUCTIONS

DISPLAY TYPE: PLASMA

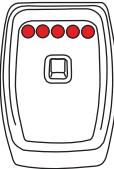
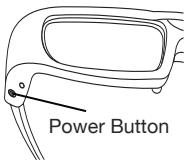
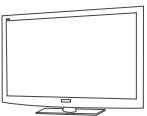
INCLUDES: MONITORS, TELEVISIONS, AND PROJECTORS

Please make sure that you have completed the following before going forward:



- A. Completed all steps indicated in the Set Up Guide,
- B. Reviewed how to operate the Emitter as detailed in "Customization of Your 3D Viewing"
- C. You have verified that your Display frame rate is <120 Hz
- D. Turn Room lights down. It is best to complete fine tuning in a dark environment
- E. Make sure that your Glasses/Eyewear are "ON".

1. 
FIRST, To enter the Emitter Fine Tuning mode, press the joystick in any direction. LED#1 and LED#5 will quickly flash PURPLE indicating that you are in the Fine Tuning Mode.

2. 
NEXT, press and hold the joystick to the LEFT or RIGHT until **4 BLUE LED** lights are "ON".
 **THIS SETS THE Emitter AND YOUR GLASSES/EYEWEAR TO PLASMA DISPLAY VIEWING.**
3. 
NEXT, move the joystick UP or DOWN. You will see 1-5 RED LED lights. Move the joystick slowly UP or DOWN while watching the 3D images.
 This allows you to adjust the quality and brightness of the 3D images, and allows you to find the best setting to minimize any flicker and/or ghosting.
4. 
Confirm Correct Polarity. If the picture image seems distorted or a lack of 3D depth is observed, the polarity needs to be inverted. Gently press the ON/OFF button on the Glasses/Eyewear to switch polarity. To change polarity again, just repeat gently pressing the ON/OFF button again. If picture images are improved, this indicates that you have the correct Polarity. This may need to be done after each adjustment is made with the emitter.
Power Button
5. 
When Fine Tuning with some Displays, you may need to adjust the Display's picture properties. (Backlight, sharpness, brightness, contrast, etc.) Turn "OFF" the ADVANCE SETTINGS under the Display's picture properties if applicable.
6. Stop moving the joystick when you find the best setting. **We recommend that you write down on the below FINE TUNING TABLE the number of RED LED lights showing that provided the best viewing.**

Number of Blue LED Lights _____ Number of Red LED Lights _____

7. After finding the optimal setting for your Display, simply leave the Emitter alone and within 2 minutes of inactivity, the Emitter will then store that Setting as the new DEFAULT.

These new default settings will be retained even if power to the Theater Processor (3DN-200) is turned off. If you want to make changes again, simply repeat the process.