Studio Lab 101: Certification

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Agenda

- **Introduction to the Studio Lab**
- **Appointment Check In / Check Out**
- **Facility Features and Gear**
- **Troubleshooting**
- **Post-Production**
- **Bookings & Planning for your project**

Learning Outcomes

- Evaluate your project needs and suitability of the space.

- Create bookings that adhere to guidelines and booking procedures.

- Plan appropriately for your session, understanding what resources and assistance will be made available.

- Develop basic familiarity with equipment in the space.

Introduction to the Studio Lab

Terms of Service

- **How to participate**
- **Safety and training**
- **Purpose of the Studio Lab**
- **Copyright at EPL**
- **Customer projects**
- **Equipment availability and guidelines**

Prohibited Items

1. Pets
2. Smoke or Fog
3. Glitter
4. Food
5. Spillable drinks
6. Artificial scents / strong odours
7. Hot lights (Continuous incandescent or tungsten bulbs)

Staff Can:

- **Provide instruction on initial setup of gear & lighting**
- **Move, adjust, and secure stands (C-Stands Lighting & Backdrop Crossbar)**
- **Assist with tech troubleshooting**

Staff Cannot:

- **Be in the studio for the whole booking**
- **Fill production roles:**
  - Camera operator
  - Production Assistant
  - etc.

Appointment Booking

Preparing for your booking

1. **Schedule your booking with Makerspace Staff**
2. **Complete and submit the Pre-Project form**
3. **Consider transportation options**
   Weekday vs. Weekend Parking
   Close vs. Far Parking restrictions
4. **Have a day plan** (shot list, costume order, etc.)
5. **Pack your gear** (extra battery/charging cable!)

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Check In Procedures

1. Check in at Makerspace Customer Service desk
2. Review space guidelines
3. Confirm project brief with staff
4. Inspect gear and physical space
5. Complete initial setup with staff

Ready to Make

In addition to following the [Customer Code of Conduct](#) and completing [EPL's Makerspace waiver](#), any individual accessing the Studio Lab must arrive to the activity, class, event or booked time *Ready to Make**.

Ready to Make means you are able to safely perform a task or activity or use a piece of equipment. It means being free from alcohol, drugs, controlled substances, and any medications that may impact your ability to safely participate in EPL classes, events, or activities in the specified spaces. You should be well-rested, healthy, and present in order to ensure you are fully able to focus on the task at hand.

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Check Out Procedures

1. Speak to staff at Makerspace Customer Service desk at end of booking (1 hour before close)

2. Work with staff to return the gear and physical space to its default layout

3. Remove all personal items from the space

   - There is no storage of items provided after or between bookings

Facility Features and Gear

The Room

1. **Studio Doors**
   - Acoustically sealed but not 'soundproof'
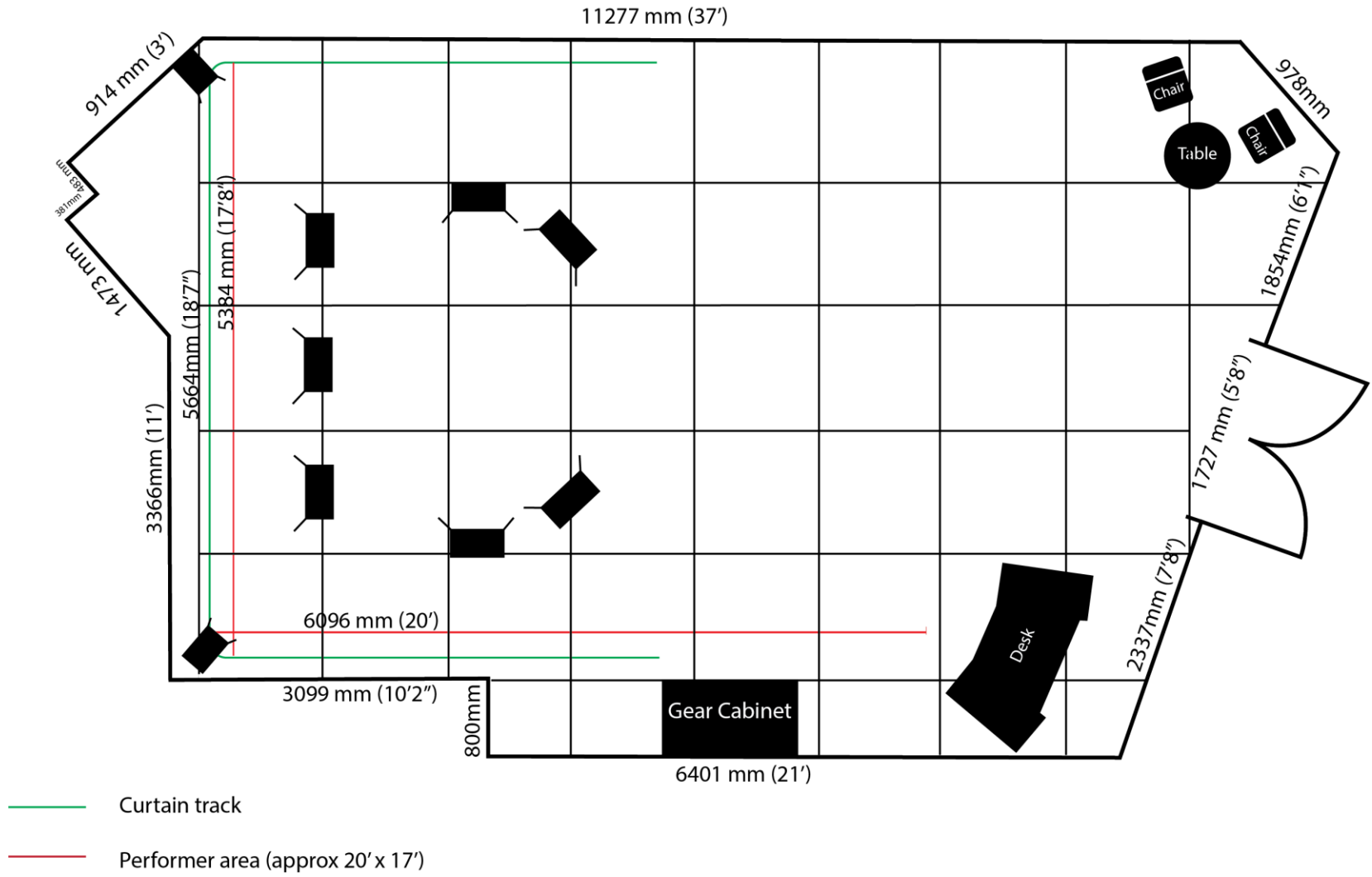   - Always push closed after leaving!

2. **Acoustics**
   - Acoustic treatment applied, but never perfect
   - Please provide feedback on acoustics!

Studio Lab

LED Panel light

Fresnel Light

11277 mm (37')

914 mm (3')

978mm

1473 mm

483 mm

381 mm

5664mm (18'7")

5384 mm (17'8")

3366mm (11')

1854mm (6'1")

1727 mm (5'8")

2337mm (7'8")

Chair

Chair

Table

6096 mm (20')

Desk

3099 mm (10'2")

800mm

Gear Cabinet

6401 mm (21')

Curtain track

Performer area (approx 20' x 17')

Curtain Backdrops

- White
- Black
- Green
- White (Pleated)

Never force drapes!
Ask staff if they
seem stuck, or any chains
have fallen off the carriers
or grommets.

Cable Management

1. **Cable strain relief**
   - Secure cables to tripod legs with slack.
2. **Tripping Hazards**
   - Minimize length of cable runs
   - Use cable covers when needed
3. **Gaffers tape available for use**
4. **There are two grid mount mic booms**
   - Can run audio cables overhead
   - Staff will assist with setup/moving

Customer Backdrops

1. **Stands**
   - Custom backdrops must be approved and hung with staff assistance

2. **Crossbar**
   - Manfrotto crossbar can support backdrops up to 9 feet in width.
   - Hanging non-standard backdrops will be subject to approval by makerspace staff.

Lighting Gear

C-Stands Moving & Setup

- Grip before loosening!
- Lower the section taking care to switch your grip as you go to prevent pinching your hands between the section clamps.
- If there is a light panel on the stand, turn the spigot pinch bolt counterclockwise to release its grip on the spigot and remove the fixture from the stand.
- Move the C-stand, taking care not to lift it high off the ground to avoid collisions with the grid or mounted equipment.
- Place two sandbags on the stand legs.
- Mount fixture and secure by tightening the spigot bolt.

Note:
Before moving, always lower all sections and remove Mixpanels if attached (storing in a secure location to prevent damage)

C-Stands – Height Adjustment

- Grip before loosening!
- Take care to prevent pinching your hands between the section.
- Twist the T-knob clockwise to lock the C-stand in place.

NOTE:

When lowering or raising the columns, always do a test to ensure that you have a good grip on the column and can hold the combined weight of the column and fixture by loosening the T-knob only slightly at first. If necessary, have another person assist with this step, with one person holding the column with two hands while the other loosens and tightens the T-knob
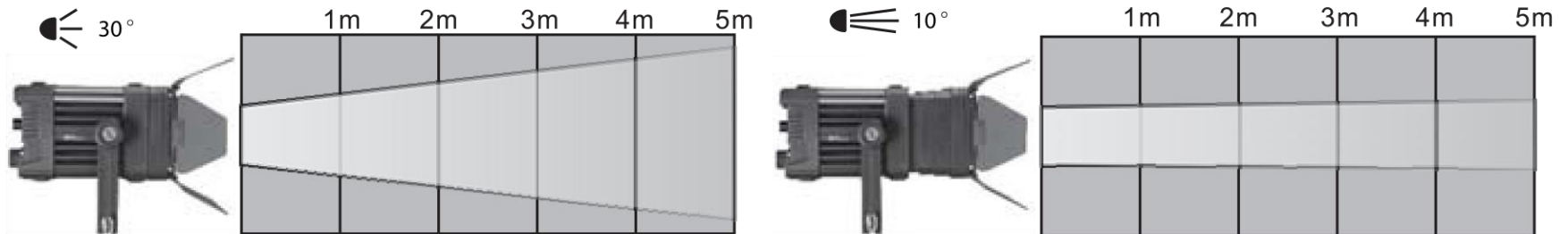
Fresnels

Ledgo LG-D600C Bi-Colour

1. Adjustable White (Bi-Colour)

3200K   5600K

2. Adjust beam spread

Fresnels

1. Press "Menu" button

2. Use the up & down buttons to select "2:Light"

3. Press Enter

4. Use the three knobs to adjust properties

Fresnel Modifiers

1. Bare Bulb
2. Fresnel Lens
3. Barn Doors
4. Snoot

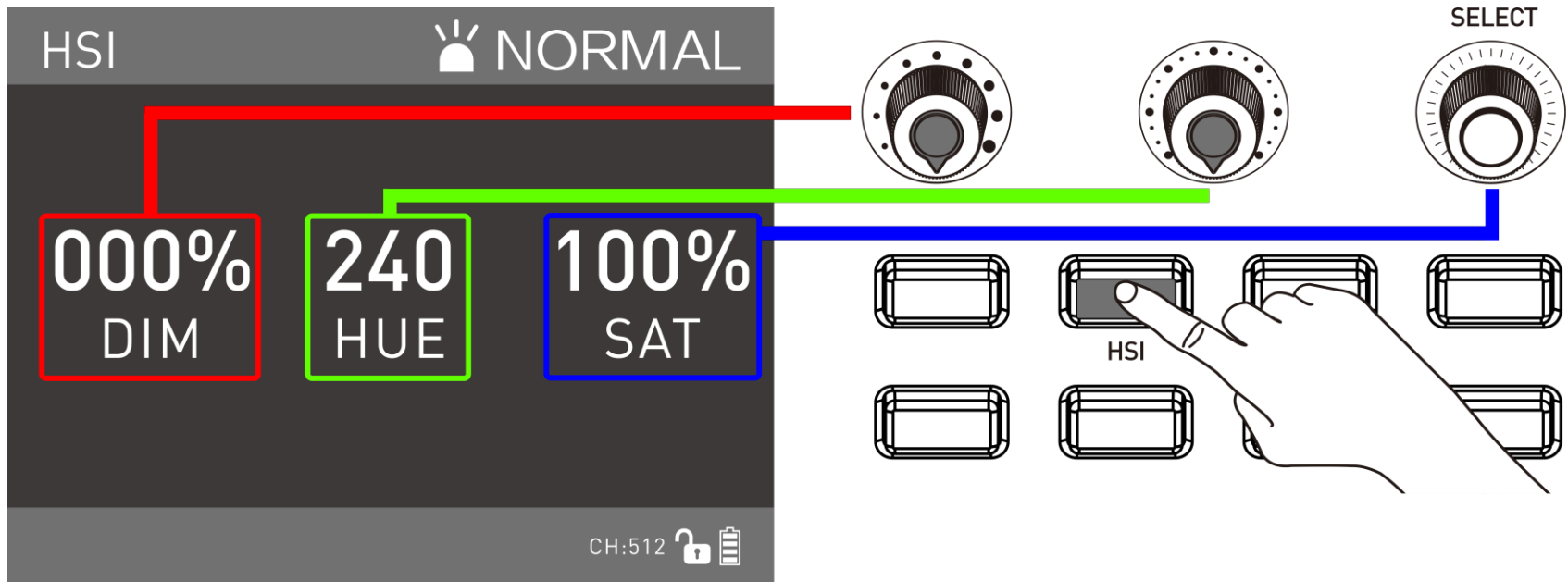# LED Panels

Brand: Nanlite

Model: Mixpanel 150

LED Panels

3 Main Modes:

1. **Correlated Color Temperature**

2. **RGBW (fine-tuned) vs. HSI colour modes**

3. **Wide suite of specific effects (thunderstorm, fireplace, paparazzi, etc.)**
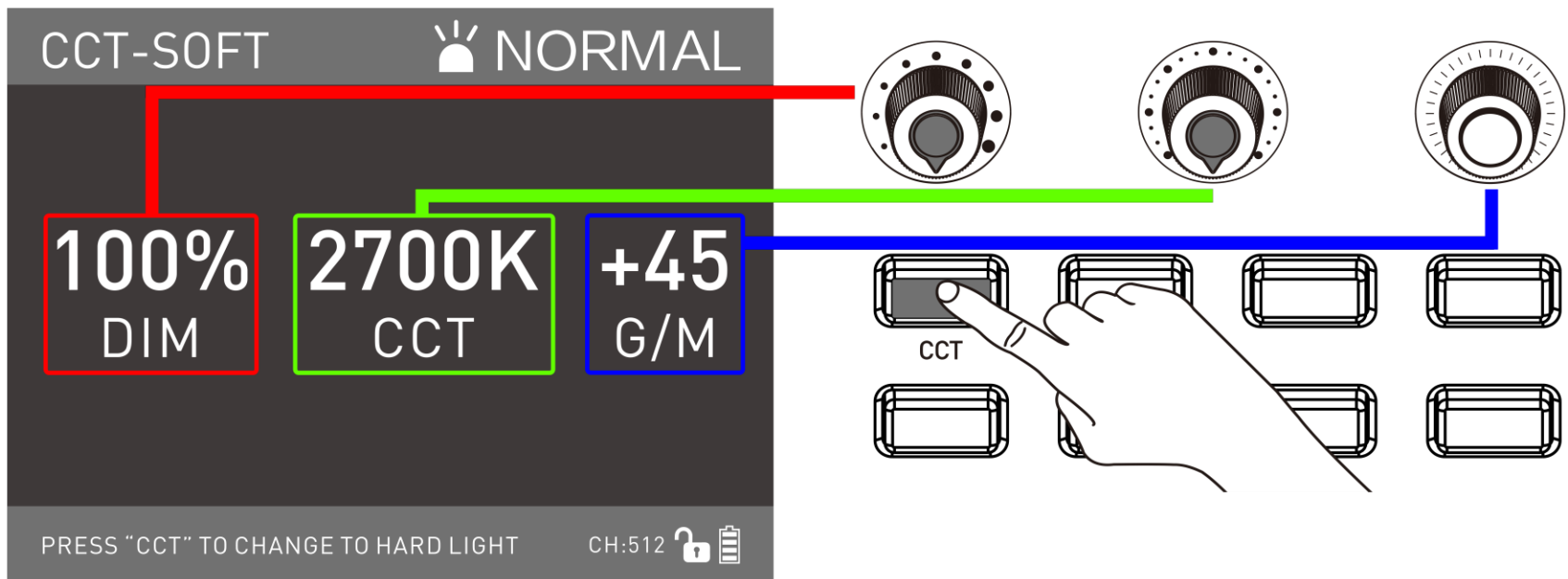
HSI Mode - Hue

Hue / Saturation / Intensity

(Property)   (Property)   (Property)

CCT Mode

Correlated Color Temperature

Hard/Soft / Dimmer / Temperature (
Mode)   *(Property)*   *(Property)*

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Modifiers

1. **Softboxes**
2. **Umbrellas**
3. **Snoot**
4. **Flags**
5. **5-in1 reflector**
6. **Light Box**

1

2

3

4

5

6

Camera Gear

Hybrid Camera & Lenses

Advantages
- Highest video quality and sharpness
- Eye tracking autofocus
- Shallow depth of field capable with some lenses & settings

Disadvantages
- Autofocus slower than camcorders
- No power zoom

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CX-10

Advantages

- Best Zoom
- Power Zoom (capable of smooth zooms)
- XLR Audio inputs
- Best handheld stabilization

Disadvantages

- Not as good as others in low light shots

DVX-200

Advantages

- **Better low light performance than the CX10**

Disadvantages

- **Size & Weight**

Camera	Video Quality	Low Light Ability	Auto Focus	Zoom (Focal Lengths)	Stabilizer	Shallow Depth of Field
GH5	★★★★★	★★★★	★★★ ☑ Eye tracking ☒ Slow	★★ 24-70mm (Manual) 50mm 90mm	★★★★	★★★★ (Depends on Lens)
CX-10	★★★	★★★	★★★★ ☑ Fast AF	★★★★★ 25-600mm Powered	★★★★★	★★
DVX-200	★★★★	★★★★	★★★★ ☑ Fast AF	★★★ 24-490mm Powered	★★★★	★★★
GoPro	★★★	★★	★★★★★ ☑ Entire scene typically in focus	★★ 16mm 16-34mm 19-39mm 27mm	★★★★★	★

Sound Capture & Playback

Condenser Mics

- **Rode VideoMic Pro**
- **Audio Technica**
- **Panasonic**
- **2pcs Apex 580**

Dynamic Mics

- **4X Shure SM58's**

Wireless Mics

- **4X Saramonic Wireless Lav Mic's**
- **2X Saramonic Wireless Reciever**

Monitors and P.A.

- Monitor at the control desk via Headphones, or desk monitors

- 4 Stereo ¼" Audio-Send channels to the stagebox (ex: 4 sets of headphones)

- Master audio output through P.A. system

Audio Mixing & Signal Control

Mixing Board

- 12 Audio Inputs
- Multiple monitoring options
- Digital Effects
- Multi-track in DAW

Rodecaster Pro

- Easy to use mixer with features ideal for podcasters

- Trigger samples and sound effects live in your podcast

Facility Features and Gear

Questions?

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Lighting Grid Controller

Staff Will

1. Turn the system on and off
2. Adjust the pan and tilt of the four subject lights
3. Perform any troubleshooting

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Sections of the Controller

1. Presets
2. Color Temperature Settings
3. Tempo Area
4. Dimmers
5. Rim Light Control
6. Mode Overrides
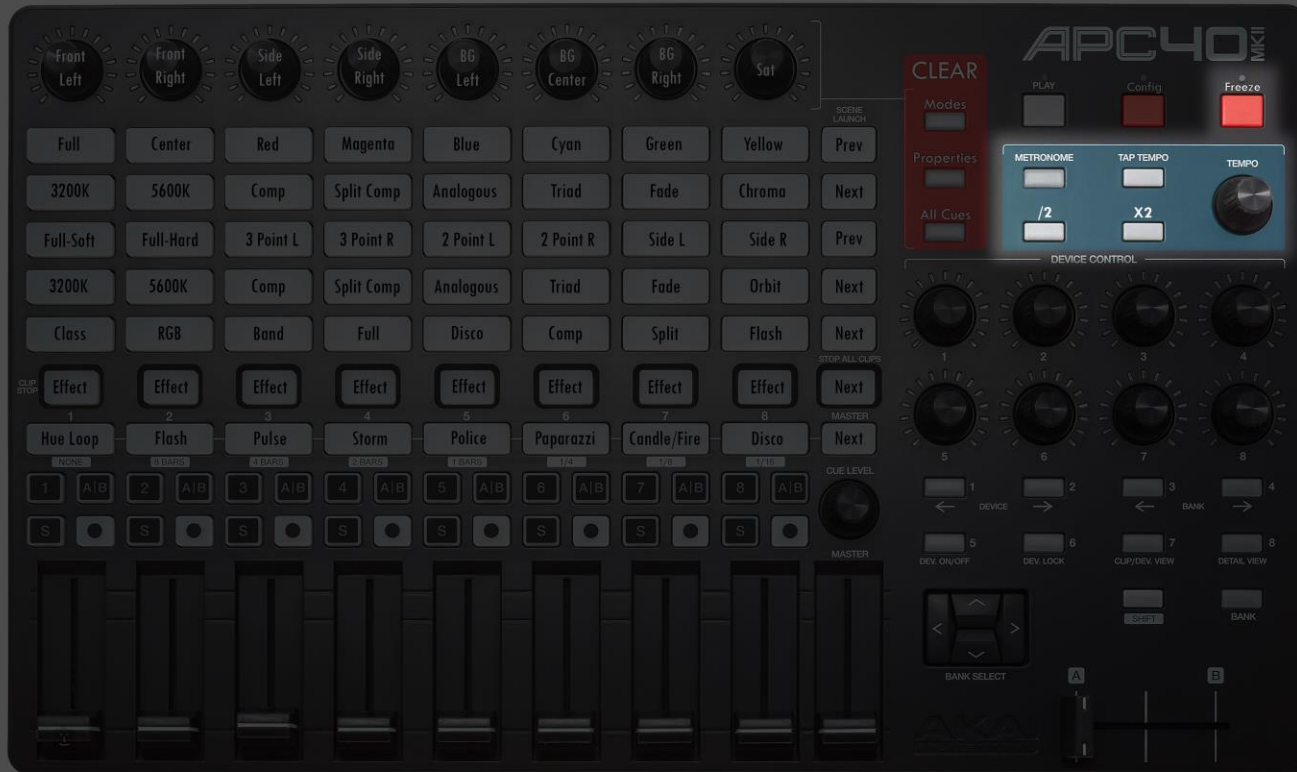7. Hue Knobs
8. Saturation Knob

Section - Presets

Section – Color Temp

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Section - Tempo

Section - Dimmers

Section – Rim Lights

Section - Modes

Section - Hue

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Section - Saturation

Section - Presets

Presets

1. CLEAR Buttons
2. Background / Subject / Full Scene
3. Controlling White Balance
4. Color Harmony Presets
5. Full Scenes
6. Tempo adjustments
7. Freeze

Presets

Backgrounds
Subject
Scene

Full	Center	Red	Magenta	Blue	Cyan	Green	Yellow	Prev
3200K	5600K	Comp	Split Comp	Analogous	Triad	Fade	Chroma	Next
Full-Soft	Full-Hard	3 Point L	3 Point R	2 Point L	2 Point R	Side L	Side R	Prev
3200K	5600K	Comp	Split Comp	Analogous	Triad	Fade	Orbit	Next
Class	RGB	Band	Full	Disco	Comp	Split	Flash	Next
Effect	Effect	Effect	Effect	Effect	Effect	Effect	Effect	Next

CLEAR
Modes
Properties
All Cues

SCENE LAUNCH
CLIP STOP
STOP ALL CLIPS
MASTER

Manual Overrides
Modes

(Remember the three main modes of the Nanlites?)

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CCT Mode

Color Corrected Temperature

1. **Hard vs Soft Mode**
2. **Dimmer property**
3. **Temperature property**

HSI Mode - Hue

- **Adjust with knob at the TOP of the controller for each fixture / strip**
- **Adjusting Hue will 'select' a fixture**

HSI Mode - Saturation

- **Making any adjustment on a fixture will "select" that fixture.**

- **The saturation knob will adjust the last selected fixture.**

HSI Mode - Intensity

- **This refers to the dimmer property and is controlled by the fixture's main fader.**

Review

Saturation affects last light adjusted

Tips for success

1. Be gentle with the MIDI controller – a light touch is all that is needed

2. Ask staff if lights are not behaving as expected

3. Check your MASTER fader level

Troubleshooting

Lighting Troubleshooting

Problem	Fix:
Lights are not responding to any inputs	1. Staff will restart the system
The controller buttons are not lit up as shown in the 'base' photo.	1. Clear properties, modes, and cues. 2. Staff will restart the system
Backdrop presets only control the middle light.	Set backdrop presets to 'Full' instead of 'Center'
Lighting presets don't look how they should	Clear any properties and modes that have been overridden.
One light isn't responding	Staff will check power to the fixture
We will continue to add to this as we see how the setup works!	

Lighting Grid

Questions?

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Post-Production

EPL iMac's – Creative Build

1. IMovie (MacOS)
2. FinalCut Pro & Motion (MacOS)
3. DaVinci Resolve (MacOS/Windows)
4. Full Adobe CC (MacOS/Windows)
   - Premiere Pro
   - After Effects

Editing in the Makerspace

1. **Storage devices**
   1. Should be USB 3.0 / 3.1 / 3.2 or faster for video projects.
   2. Use reputable brands: Kingston, Sandisk, Crucial, Adata, Western Digital, Samsung, PNY, Corsair, etc.
2. **Be conscious of time**
   - Large photo / video projects can take significant time for files to transfer, save, render, etc. Staff are unable stay past close and not responsible for data loss as a result of poor planning.
3. **Software updates may not be current version**
   - Projects you work on at home may not open in the Makerspace

Bookings & Planning for Your Project

Bookings

Phone: 780-944-5342

Email: makerspace@epl.ca

One booking per day: Tuesday, Wednesday or Saturday

Hours: 11-8 Weekdays, 10-5 Saturdays.

Hands On Practice

Things to try!
- **Clear all settings!**
- **Launch a full scene preset**
- **Mix a backdrop preset with a subject preset**
- **Choose a full scene preset and manually override dimmers**
- **Choose a full scene preset and manually override a lighting mode**

Hands On Practice

- **Move drapery**
- **C-Stand with a Mixpanel**
- **C-Stand with a Fresnel**
- **Modifiers (Umbrellas / Softboxes / Reflector / etc.)**
- **Grip arms and attachments**