

**Version-A)** FWSel\_DLPC3479\_DLPA3005\_pm1\_i2c0x36\_v8p4p0 ( From TI FW SELECTOR)

**Version-B)** 250121\_RED5A\_GRE5A\_BLUE5A

- Only changed LED Current from 10A to 5A using Version-A

**Version-C)** 250121\_10HZ\_3Pattern\_Pre1980\_Exp29000\_Post1450\_RGB5A

- Only changed LED Current and external Pattern parameter using Version –A

- (DLPC3010) Used the normally to our hardware after making the external Patter FW using the same method.

		TI EVM	Our HW
Version B	Master_IRQ	High → Low	High → Low
	Slave_IRQ	High → Low	High → Low
Version C	Master_IRQ	High → Low	High → Low
	Slave_IRQ	High → Low	High → High

# Version-C) 250121\_10HZ\_3Pattern\_Pre1980\_Exp29000\_Post1450\_RGB5A

After downloading Version-C to DLPC4710-EVM

DLP4710EVM-LC

Search

Patterns and Images Video and Color Display Settings **IntelliBright™**

### IntelliBright™

Local Area Brightness Boost (LABB)

Enable Strength: [Slider] Sharpness: [Slider]

Content Adaptive Illumination Control (CAIC)

Enable Gain: [Slider] less power higher brightness

Red Current: [Slider]  
Green Current: [Slider]  
Blue Current: [Slider]  
Maximum available Power: [Slider]

Show RGB intensities on-screen

[?] [Get] [Set]

### LED Current

**Red LED**

Enable  
Current (mA): 5004 [Slider]

**Green LED**

Enable  
Current (mA): 5004 [Slider]

**Blue LED**

Enable  
Current (mA): 5004 [Slider]

[?] [Get] [Set]

✓ VM Status: Ready; External Pattern Streaming

TEXAS INSTRUMENTS

## Version-C) 250121\_10HZ\_3Pattern\_Pre1980\_Exp29000\_Post1450\_RGB5A

After downloading Version-C to DLPC4710-EVM

It correctly displays the parameters applied when creating Version-C.

External Patterns   Internal Patterns   Splash Patterns

1. Define pattern configuration

Frame Rate (Hz)	10.27855	Pre-exposure Dark Time (us)	1980
Illumination	B	Exposure Time (us)	29000
Bit Depth	1	Post-exposure Dark Time (us)	1450
Patterns Per Frame	3		

2. Define trigger out settings

Trigger Out 1	Trigger Out 2
Enable <input checked="" type="checkbox"/>	Enable <input checked="" type="checkbox"/>
Invert <input type="checkbox"/>	Invert <input type="checkbox"/>
Delay (us) 0	Delay (us) 0

3. Review the timing diagram to verify the pattern configuration

Pattern/Frame

Trigger 1

Trigger 2

PData[0]   PData[1]   PData[2]

↓ Get   ▶ Set