Quick Info Sheet

LED and Controller

AGDisplays Value Add Service

Introduction

If you find your screen is dull and colorless, upgrading to high powered LEDs will breathe new life into your unit, allowing for a vibrant and long-lasting display.

AGDisplays provides advanced generation LEDs to bring high output while being energy efficient and long lasting. We upgrade existing lighting systems including CCFL.

For maximum dependability and energy efficiency, LED rails will require compatible LED controllers.

We manufacture our own line of LED controllers that work safely with our LED rails and virtually any OEM LCD.

When To Use This Service

- **Dull and lifeless color in display**
- **Need to upgrade to high bright display**
- **Upgrade from CCFL without replacing whole unit**
- **Need for LED controller**
- **Desire to increase damage resistance**

Prepare Details

- **LCD part number in question**
- **Brightness requirements**
- **Existing LCD specification from customer**
- **OEM's incoming inspection specification (IIS)**

Industries

- **Avionics**
- **Financial**
- **Marine**
- **Marketing**
- **Medical**
- **Military**
- **Point of Sale**
- **Transportation**

About LED and Controller

Why LED and Controller?

- Flexible design options: edgelit array or direct backlight array, depending on design suitability
- LED controllers integrate with virtually any OEM LCD panel
- High bright integration involves replacing outdated CCFL technology
- Wide adjustable input range: 12-24 volts
- DC to DC power inverters with error loop filter
- LED controllers are constant current: they automatically regulate and adjust to current appropriately to maintain a safe and constant current to LED rails
- Quantity and timeline forecast
- Gen 4 LED rails provide longer lasting lifespan while having a low environmental footprint

Customer Benefits

- High bright brightness is 1000 nits minimum
- Save energy: low power consumption with higher brightness output
- Protect unit against environmental factors: extreme humidity, frigid temperatures
- Smaller LEDs allow for increased resistance to shock and vibration.
- Small environmental footprint with efficient LEDs
- Environmentally safe: LEDs are ROHS-compliant; they are mercury- and lead- free and reduced EMI emissions.
- Overall lifespan is 10,000 to 100,000 hours

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