Color harmony is the use of colors, shades, materials, and textures to achieve a pleasing visual experience. Good color harmony stirs emotions and plays a significant role in consumers’ buying decisions.

In the automotive industry, paints and coatings are becoming more complex, parts are being manufactured from a wider range of materials, and final products consist of components from a worldwide supply chain. Incoming parts and final products need to be inspected for color harmony, fit and finish in a lighting environment that is compliant with industry standards and can simulate the environment in which consumers will view the product.

**Color Harmony Room Features**

GTI will work with you to design a color harmony room that will meet your specific requirements. Your customized room will consist of GTI GLE and/or GLL luminaires mounted to the walls, ceiling, and on portable stands. Features include:

- Compliance with ASTM D1729 and SAE J361
- Single, dual, or multi-source luminaires
- Multiple angles of illumination
- Custom configurations to fit any size room
- Wireless remote control
- GTI ColorGuard II — Tracks light source usage and indicates when to relamp
- Automatic light source sequencing
- GTI’s proprietary D65 ColorMatcher lamps
- Access to GTI’s color and lighting experts

**GTI’s Approach**

- Working with you, GTI will conceptualize, develop specifications, and design the right color harmony room for your products, facility, and inspection needs.
- If needed, GTI will develop a scaled prototype room at our facility to ensure that the intensity and angles of illumination meet specifications.
- After installation, GTI can provide an onsite audit to ensure the color harmony room meets industry standards.
- GTI provides scheduled relamping programs to help you maintain consistent and accurate viewing conditions.

Above: A custom color harmony room featuring multi-source GLE luminaires and wireless remote control

Left: A portable inspection station with three angles of illumination and multiple light levels
Superior Lighting Where Color Is a Critical Aspect of Your Business

Five Keys to Accurate Color Matching and Inspection

**Color Quality** — D65 light is a daylight simulation that has a color temperature of 6500K. Not all 6500K lamps are equal. To maintain compliance with ASTM D1729 and SAE J361 use GTI proprietary CMlite D65 daylight fluorescent lamps.

**Light Intensity** — Consistent light intensity is critical for evaluations of color quality and appearance and assures accurate color communication across the supply chain.

**Evenness** — Even light intensity across a surface assures correct interpretation of color. Evenness is ensured by properly engineering the lighting environment based on the specific automotive application.

**Surround** — A properly designed viewing area includes a surround and backing that are neutral and matte. GTI recommends Munsell N7/ neutral gray low gloss paint.

**Geometry** — Perceived color discrepancies can be caused by different angles of illumination and viewing. Altering the viewing or illuminating angles will help detect these gonio-apparent difference.

**Light Sources**

The use of multiple light sources assures effective visual appraisal of metamerism and color match assessment. Available sources include:

- Daylight — D65, D75, or D50
- Store Light — CWF or TL84
- Home Light — Incandescent A
- Ultraviolet — UVA BLB
- Other Choices — SPX35, TL83, Horizon, or LED

A customized color harmony room will help you make visual assessments with confidence. You will experience fewer defects, lower production cost, and a better finished product, resulting in satisfied customers and higher profits.

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