



Choosing the Right Color Measurement Instrument: Agera L2 vs. ColorFlex L2

Selecting the correct color measurement instrument is an important decision—one that directly affects product quality, brand consistency, compliance, and customer confidence. While many materials can be measured using a standard Pass/Fail system, others require more advanced illumination, geometry, UV handling, and dark-sample precision to ensure results that match what the human eye sees in real daylight.

This guide provides a clear, customer-friendly explanation of **Agera L2** and **ColorFlex L2**, and a practical framework to help you choose the right instrument for your materials and workflow.

Introducing the Two Instruments: Agera L2 & ColorFlex L2

Agera L2 – Advanced Appearance Measurement for Complex Materials

Agera L2 is designed for applications where **accuracy, appearance, and material complexity** require more than simple Pass/Fail evaluation. It features:

- True, ISO-Calibrated D65 illumination
- Calibrated UV for OBAs, bright whites, and fluorescents
- Ultra Dark Mode for samples below 20% reflectance
- 0°/45° circumferential geometry for exceptional visual correlation
- Integrated 60° gloss measurement
- Imaging to assist with textured and patterned materials
- Superior inter-instrument agreement for multi-site operations
- HunterLab Essentials L2 on-board software
- Ethernet TCP/IP connectivity to LIMS/SPC integration

Agera L2 is ideal when consistent appearance under daylight is critical, or when your materials have texture, fluorescence, gloss, deep color, or process-driven variation.



ColorFlex L2 – Reliable, Robust, Everyday Color QC

ColorFlex L2 is built for high-volume, routine quality control where materials are smooth, uniform, and non-fluorescent. It offers:

- 45°/0° annular geometry
- Stable Pass/Fail performance
- Excellent repeatability for solid colors
- Imaging to assist with textured and patterned materials
- HunterLab Essentials L2 on-board software
- Ethernet TCP/IP connectivity to LIMS/SPC integration
- Affordable, simple operation
- Fast QC throughput

ColorFlex L2 is the preferred solution for food ingredients, powders, sauces, stable plastics, coatings, processed goods, and many other everyday materials where appearance challenges are minimal.

What to Buy and Why: A Practical Decision Guide

Below is a simple, customer-friendly way to identify the right instrument for your material type and quality requirements.

1. Does your material fluoresce—or contain brighteners?

Examples: OBAs in plastics or paper, safety colors, textile brights, fluorescent inks.

- Yes → Agera L2
- No → Go to Step 2

2. Is your material very dark (below ~20% reflectance)?

Examples: carbon-black plastics, deep navy, matte appliance finishes, dark coatings.

- Yes → Agera L2 (Ultra Dark Mode)



- No → Go to Step 3

3. Does your material have texture, directionality, or pattern?

Examples: woven textiles, molded plastics, rough coatings, films, embossed packaging.

- Yes → Agera L2
- No → Go to Step 4

4. Is gloss control or gloss reporting important?

- Yes → Agera L2
- No → Go to Step 5

5. Do you have multiple labs, suppliers, or plant locations that must agree?

- If daylight-based visual agreement across locations is important → Agera L2

6. Is this primarily simple Pass/Fail QC of stable, non-fluorescent materials?

- If yes → ColorFlex L2
- If not → Agera L2

Side-by-Side Summary

If you need...	Choose Agera L2	Choose ColorFlex L2
Accurate daylight appearance	✓	-
Calibrated UV / OBA handling	✓	-
Fluorescent material accuracy	✓	-
Dark-sample precision	✓	-
Texture & gloss evaluation	✓	-
Routine Pass/Fail QC	-	✓
Smooth, uniform solids	-	✓
Budget-conscious QC	-	✓



Industry Examples

Plastics

- Agera L2: OBAs, textured caps/closures, gloss-sensitive parts, recycled PET
- ColorFlex L2: Solid pellets, stable opaque colors, basic masterbatch QC

Paints & Coatings

- Agera L2: Deep darks, safety colors, gloss/color interactions
- ColorFlex L2: Mid-tone architectural paints, uniform coatings

Packaging & Printing

- Agera L2: Bright whites, fluorescents, decorative coatings, films
- ColorFlex L2: Standard labels, uniform plastic parts, simple ink QC

Textiles

- Agera L2: Whites with OBAs, weaves, knits, brights, safety garments
- ColorFlex L2: Uniform dyed fabrics for basic QC

Paper & Pulp

- Agera L2: OBAs, whiteness/tint, high-end substrates
- ColorFlex L2: Kraft, uncoated, non-fluorescent grades

Food & Ingredients

- Agera L2: Fluorescent spices, very dark ingredients, supplements
- ColorFlex L2: Tomato, citrus, powders, seasonings—everyday QC

In Summary

Agera L2 is the right choice when your materials are complex, appearance matters, or when you need calibrated daylight, calibrated UV, dark-sample accuracy, gloss, or multi-site agreement.



ColorFlex L2 is the right choice when your materials are uniform, non-fluorescent, and require fast, dependable Pass/Fail quality control.

Both instruments are exceptional—your application determines the fit.