

Photovolt Instruments, Inc.

Roast Color Classification

Measurements and Procedures

Quick Start Guide

1. Power Cables
 - A. Connect power to 577-A
 - B. Connect power to Digital Display Unit
2. Search Unit – Connect cable from Search Unit to 577-A
3. Digital Display – Connect serial communication cable to 577-A
4. Turn on power on back panel
5. Let the instrument warm-up

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Quick Start Calibration Procedure

1. Insert Amber Filter



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2. Calibrate Zero Value

- A. Place Black Cavity Standard on Search Unit



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Measurements and Procedures

Quick Start Calibration Procedure

2. Calibrate Zero Value

B. Press “Change” Button



2. Calibrate Zero Value

B. Press “Zero” Button



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3. Calibrate Reflectance Value

A. Place Calibrated Plaque on Search Unit



3. Calibrate Reflectance Value

B. Press “Change” Button



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Roast Color Classification

Measurements and Procedures

Quick Start Calibration Procedure

3. Calibrate Reflectance Value

C. Press “STD” Button



3. Calibrate Reflectance Value

D. Press “Amber” “Blue” and “Green” buttons until reading is the same as on the plaque for Amber



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Measurements and Procedures

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4. Calibrate Reflectance Value

D. Press “STD” Button



5. Standardization is complete!

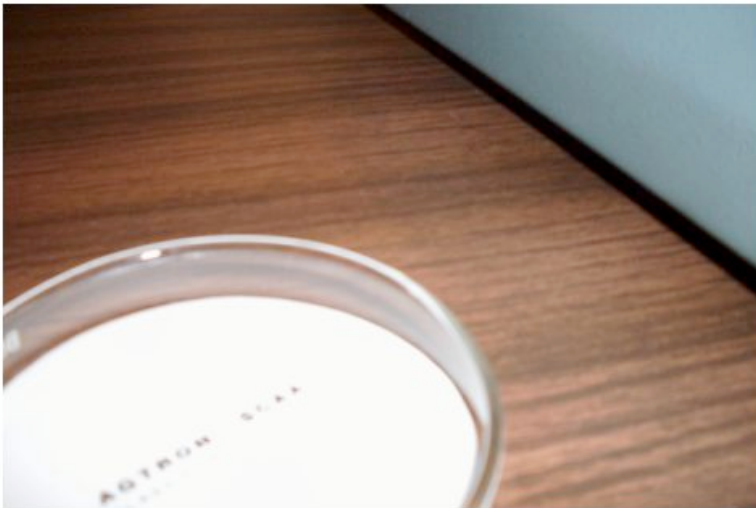
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Using the 577-A for Roast Coffee Measurements

Sample Measurement



Sample: SCAA #85
Placed in sample dish



Place sample dish on Search Unit
Press orange button to display SCAA
Classification Number

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Roast Color Classification

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Sample Measurement



Instrument reading: 84.2

SCAA Classification: #85

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Sample Measurement



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Comments

1. The 577-A will measure a very broad range of reflectances
2. The 577-A is also capable of color measurement
3. The 577-A can measure green coffee beans for quality control

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Certification of Calibration

Calibration date: July 8, 2006

Expiration date: July 9, 2006

Photovolt P.N.: 2657701

Serial Number: 590578

Condition of item: New

This certifies that the color or brightness values of the above listed standard have been calibrated with the following standards which are traceable to a nationally recognised authoritative body.

Measurement results were established with standards traceable to the nationally recognised body shown below:

Master standard used:

Mid-Gray Ceramic Colour Standard #0730

Serial Number:

Ceram #00832

Authoritative body:

NPL, United Kingdom

Certifying Laboratory:

CERAM Color Standards Laboratory

(UKAS Calibration Laboratory No 0420)

Cleaning method: All standards were cleaned using only distilled water and laboratory grade methanol and dried with a lint-free tissue.

Measured results: Average of five measurements with standard deviation:

Brightness

Amber

BLUE

GREEN

n/n

5.46

Avg.

Photovolt Instruments Inc.

Light Coffee Calibration Plaque

Part Number: 2657701

Serial Number: 596578

Calibration Date: July 8, 2008

Amber: 7.0

Green: 5.5

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