
```
% Linear calibration of ASUS259 - located in DDPI-mk2 room.
% NVIDIA parameters determined from colormeter measurements on
Feb-25-2022
% Data collected by RL on June 25, 2021. Minolta CS 100 was placed
~1.2 m
% from monitor on a tripod.
% Monitor settings: Contrast 25, Brightness 0.
```

NVIDIA color corrections: RGB - all channels set to 2.13, Contrast 0, Brightness 0.

```
pixel = [0:(255/6):255];
lum = [.....
0.0367;.... % 0
3.64;.... % 42.67
6.5233;.... %85.33
9.6;.... %128
13;.... % 170.67
16.3667;.... % 213.33
19.7; ....255
];
red = [.....
0.04;.... % 0
0.8;.... % 42.67
1.3867;.... %85.33
1.9433;.... %128
2.5467;.... % 170.67
3.2267;.... % 213.33
3.88; ....255
];
green = [.....
0.04;.... % 0
2.7533;.... % 42.67
4.8833;.... %85.33
7.2033;.... %128
9.7467;.... % 170.67
12.3;.... % 213.33
14.9; ....255
];
blue = [.....
0.0455;.... % 0
0.2767;.... % 42.67
0.4767;.... %85.33
0.6933;.... %128
0.94;.... % 170.67
1.1733;.... % 213.33
1.4033; ...255
];
data = {lum, red, green, blue};
```

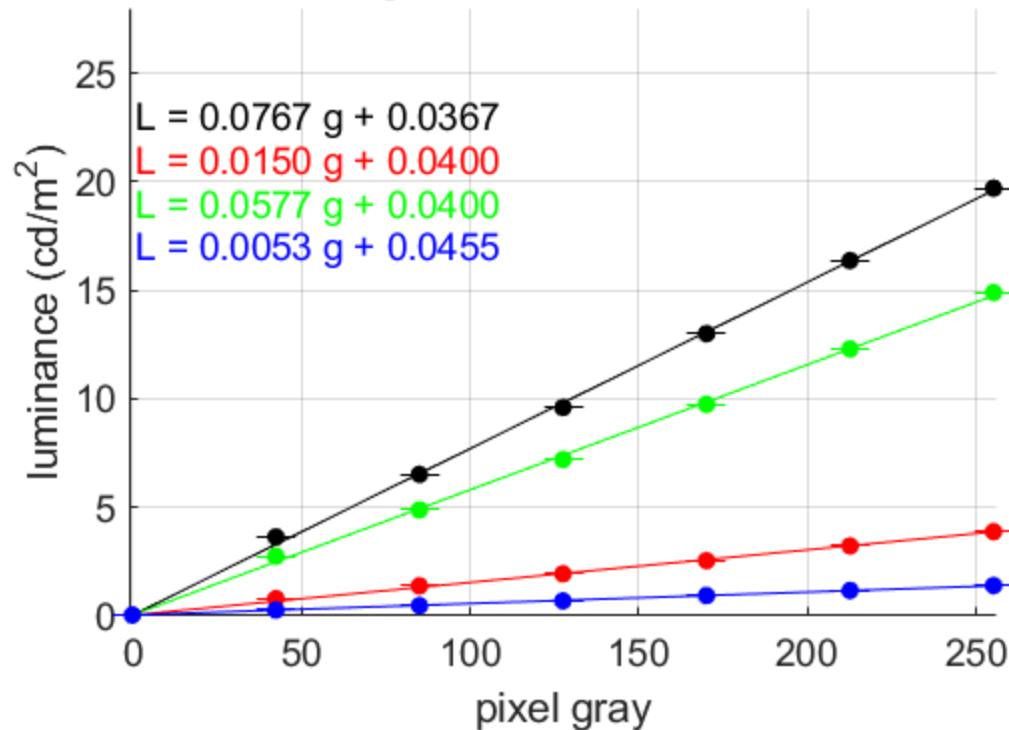
```

cols = 'krgb';
slopes = nan(size(data));
figure(1); clf; hold on;
for ii = 1:length(data)
    m = mean(data{ii}, 2);
    s = std(data{ii}, [], 2);
    % force intercept to go through our measured 0
    lm = fitlm(pixel, m - m(1), 'y~x1-1');
    slope = lm.Coefficients{1, 1};
    b = m(1);
    % free intercept parameter
    % lm = fitlm(pixel, m);
    % slope = lm.Coefficients{2, 1};
    % b = lm.Coefficients{1, 1};
    slopes(ii) = slope;
    plot(pixel, pixel * slope + b, '- ', 'Color', cols(ii));
    errorbar(pixel, m, s, 'o', ...
        'Color', cols(ii), 'MarkerFaceColor', cols(ii), 'CapSize', 14);
    text(1, 25 - ii*2, sprintf('L = %1.4f g + %1.4f', slope, b), 'Color',
        cols(ii), ...
        'FontSize', 14);
end
xlim([-1, 256]);
ylim([0, 28]);
grid on;
title({'ASUS 259 (360 Hz), Feb 25, 2022 Measurements', 'one gamma for
    all channels'});
xlabel('pixel gray');
ylabel('luminance (cd/m^2)');
set(gca, 'FontSize', 14);
hold off;
fprintf('R to B: %1.2f\n', slopes(2) / slopes(4));
fprintf('G to B: %1.2f\n', slopes(3) / slopes(4));

R to B: 2.85
G to B: 10.94

```

ASUS 259 (360 Hz), Feb 25, 2022 Measurements
one gamma for all channels



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