BASLER L304k

SUPPLEMENT TO THE L304kc USER'S MANUAL

Document Number: DA00076101

Release Date: 17 October 2005

BASLER
VISION TECHNOLOGIES

For customers in the U.S.A.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC Rules.

For customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

Pour utilisateurs au Canada

Cet appareil est conforme aux normes Classe A pour bruits radioélectriques, spécifiées dans le Règlement sur le brouillage radioélectrique.

Life Support Applications

These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Basler customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Basler for any damages resulting from such improper use or sale.

Warranty Note

Do not open the housing of the camera. The warranty becomes void if the housing is opened.

All material in this publication is subject to change without notice and is copyright Basler Vision Technologies.

Contacting Basler Support Worldwide

Europe:

Basler AG
An der Strusbek 60 - 62
22926 Ahrensburg
Germany

Tel.: +49-4102-463-500
Fax.: +49-4102-463-599

vc.support.europe@baslerweb.com

Americas:

Basler, Inc.
740 Springdale Drive, Suite 100
Exton, PA 19341
U.S.A.

Tel.: +1-877-934-8472
Fax.: +1-877-934-7608

vc.support.usa@baslerweb.com

Asia:

Basler Asia Pte. Ltd
25 Internat. Business Park
#04-15/17 German Centre
Singapore 609916

Tel.: +65-6425-0472
Fax.: +65-6425-0473

vc.support.asia@baslerweb.com

www.basler-vc.com

Table of Contents

1 Introduction 1-1

1.1 Purpose of This Manual 1-1

2 Specific Properties 2-1

2.1 Sensor 2-1
2.2 Spectral Response 2-2
2.3 Spatial Correction 2-3
2.4 Color Shift Correction 2-3

1 Introduction

1.1 Purpose of This Manual

The Basler L304k camera is the monochrome version of the L304kc camera. The purpose of this document is to describe the properties that are unique to the L304k camera.

For a full description of the L304k camera and its capabilities, this document must be used together with the L304kc User's Manual (DA000721xx).

2 Specific Properties

2.1 Sensor

The L304k camera uses the Kodak KLI-4104 linear CCD with three parallel lines of pixels. In contrast to the L304kc, however, the lines of pixels are not covered by color filters.

In the L304k camera the three lines of pixels are labelled line1, line 2 and line 3, respectively. For reference to the L304kc User's Manual, the following relations hold:

L304k	L304kc
Line 1	Green
Line 2	Red
Line 3	Blue

Table 2-1:Labelling of the Three Lines of Pixels in the L304k and L304kc Cameras

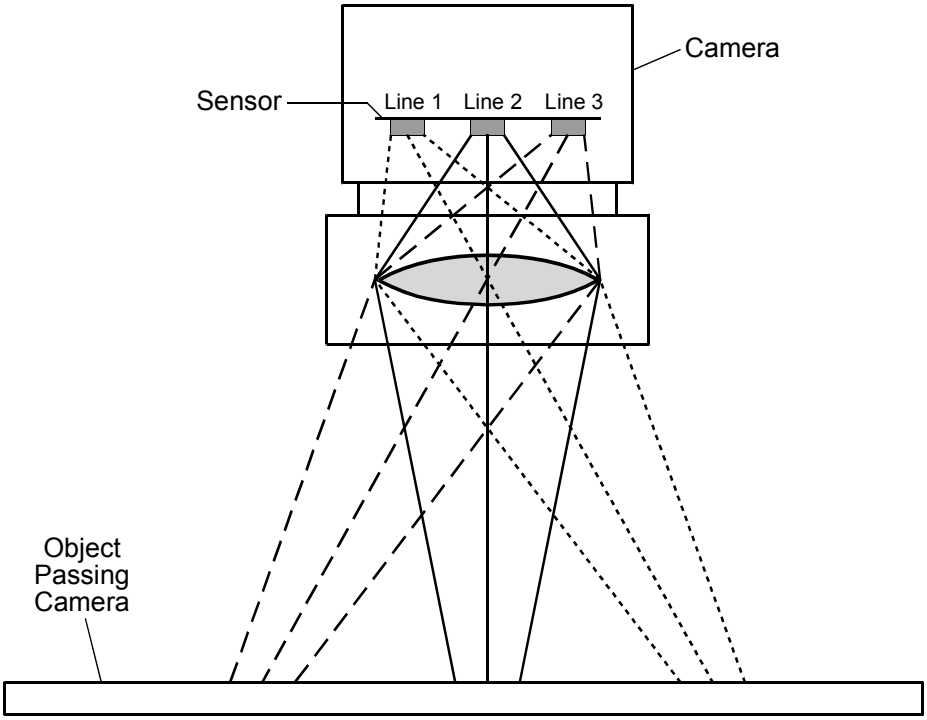

Figure 2-1: Labelling of the Three Lines of Pixels and Fields of View

2.2 Spectral Response

The spectral response for L304k cameras is shown below.

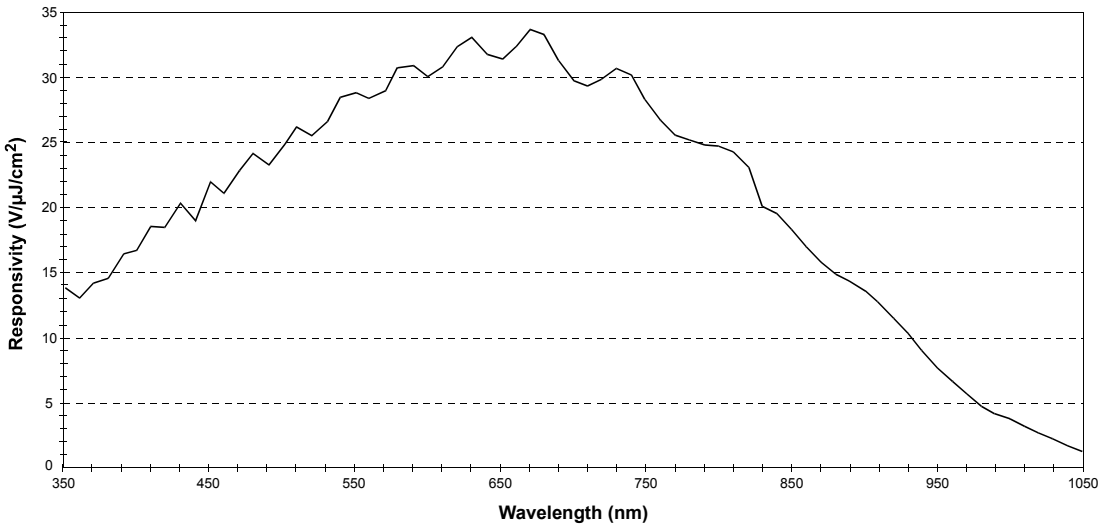

Figure 2-2: Spectral Response

2.3 Spatial Correction

You must use the spatial correction feature in order to perfectly match the images obtained by the sensors's line1, line 2 and line 3.

For spatial correction, you must set the Spatial Correction Amount and Spatial Correction Direction parameters. You can set the parameters using the Camera Configuration Tool Plus (CCT+) or by write commands from within your own application.

2.4 Color Shift Correction

⚠	**Caution** Do not use the color shift correction feature. If you enable the color shift correction feature poor image quality will result.

Revision History

Doc. ID Number	Date	Changes
DA00076101	17 October 2005	Initial release of the Supplement to the L304kc User's Manual.