# Camera Link® Multiplexer

Manual B563 Camera Link® Multiplexer, Rev. 1.4
Mikrotrons ID Nr.: B563

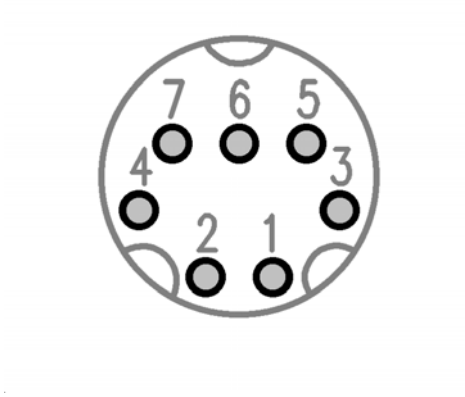

**Mikrotron GmbH**
Landshuter Str. 20-22
D-85716 Unterschleissheim
Germany

Tel.: +49 89 726342-00
Fax: +49 89 726342-99
info@mikrotron.de
www.mikrotron.de

# 1 Table of contents

# 2 Connectors

## 2.1 Power Connector




Pin 1 and 2: +8-13VDC, max. 7 W
Pin 5 and 6: Ground

## 2.2 Camera Link® Connectors

The following tables show the pinning of the Camera Link® multiplexer connectors.

**Output to frame grabber**

| Pin | Signal |
|---|---|
| 1 | GND |
| 2 | X0- |
| 3 | X1- |
| 4 | X2- |
| 5 | XCLK- |
| 6 | X3- |
| 7 | SERTC+ |
| 8 | SERTFG- |
| 9 | CC1- |
| 10 | CC2+ |
| 11 | CC3- |
| 12 | CC4+ |
| 13 | GND |

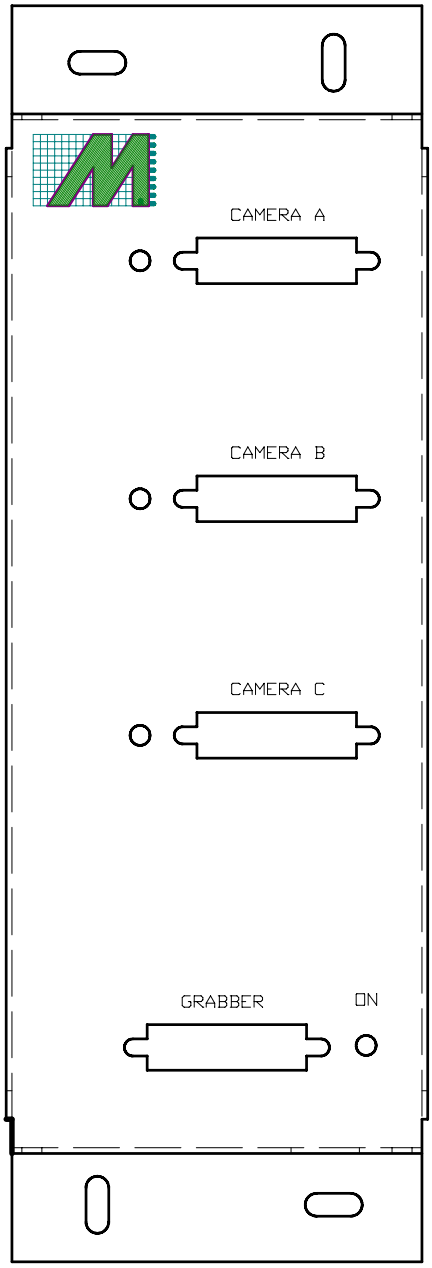
| Pin | Signal |
|---|---|
| 14 | GND |
| 15 | X0+ |
| 16 | X1+ |
| 17 | X2+ |
| 18 | XCLK+ |
| 19 | X3+ |
| 20 | SERTC- |
| 21 | SERTFG+ |
| 22 | CC1+ |
| 23 | CC2- |
| 24 | CC3+ |
| 25 | CC4- |
| 26 | GND |

**Input from cameras**

| Pin | Signal |
|---|---|
| 1 | GND |
| 2 | CC4- |
| 3 | CC3+ |
| 4 | CC2- |
| 5 | CC1+ |
| 6 | SerTFG+ |
| 7 | SerTC- |
| 8 | X3+ |
| 9 | Xclk+ |
| 10 | X2+ |
| 11 | X1+ |
| 12 | X0+ |
| 13 | GND |

| Pin | Signal |
|---|---|
| 14 | GND |
| 15 | CC4+ |
| 16 | CC3- |
| 17 | CC2+ |
| 18 | CC1- |
| 19 | SerTFG- |
| 20 | SerTC+ |
| 21 | X3- |
| 22 | Xclk- |
| 23 | X2- |
| 24 | X1- |
| 25 | X0- |
| 26 | GND |

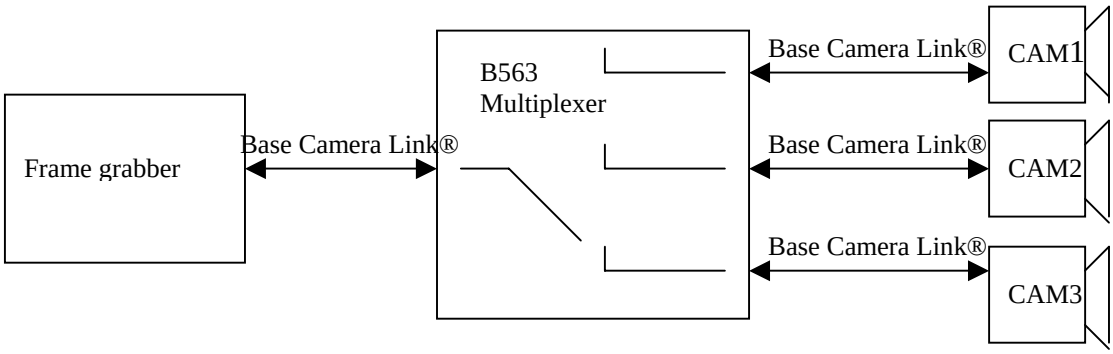
# 3 B563 enclosur




Dimensions:
Hight: 35mm
Width: 74mm
Length: 220mm

# 4 Function

The B563 is used to switch up to three 8-bit Camera Link® cameras to one Base Camera Link® frame grabber.




## 4.1 Camera selection

A two characters ASCII string is send via Camera Link® serial connection (SERTC) at a baudrate of 9600Bd.

| Camera | ASCII-String |
|---|---|
| 1 | !1 |
| 2 | !2 |
| 3 | !3 |

The green LED beneath the connector shows status.
After power on camera 1 is selected.
Selection is done immediately.

# 5 Installation

- Switch off computer with frame grabber
- Connect B563 with frame grabber and cameras using standard Camera Link® cable
- Power on B563
- Power on cameras
- Power on computer