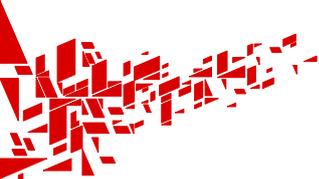




serialCommander v1.0

USER MANUAL



Revision History

Rev.No	Description	Date of Rev
1	Initial release	22/12-2016

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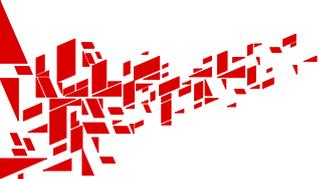
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Contact

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Safety information

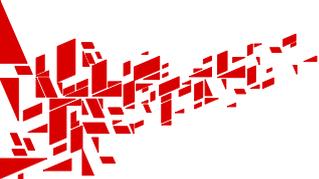
IMPORTANT! The Imenco products and software are technically advanced products. Please make sure to read and understand all sections of this manual before installing or operating this product. Installation and configuration of this software should only be performed by qualified personnel.

Warranty

Be sure to read and comply with the **Imenco Software License**.

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General Description

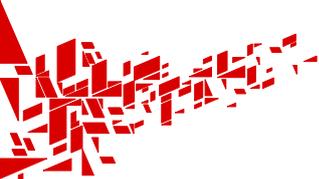
1.1 General description

The serialCommander streaming software is included free of cost with every serial controlled Imenco camera, to allow easy and convenient control of the cameras.

Additional functionality on top of basic features may also be available. See specific product manuals or contact Imenco sales for more information.

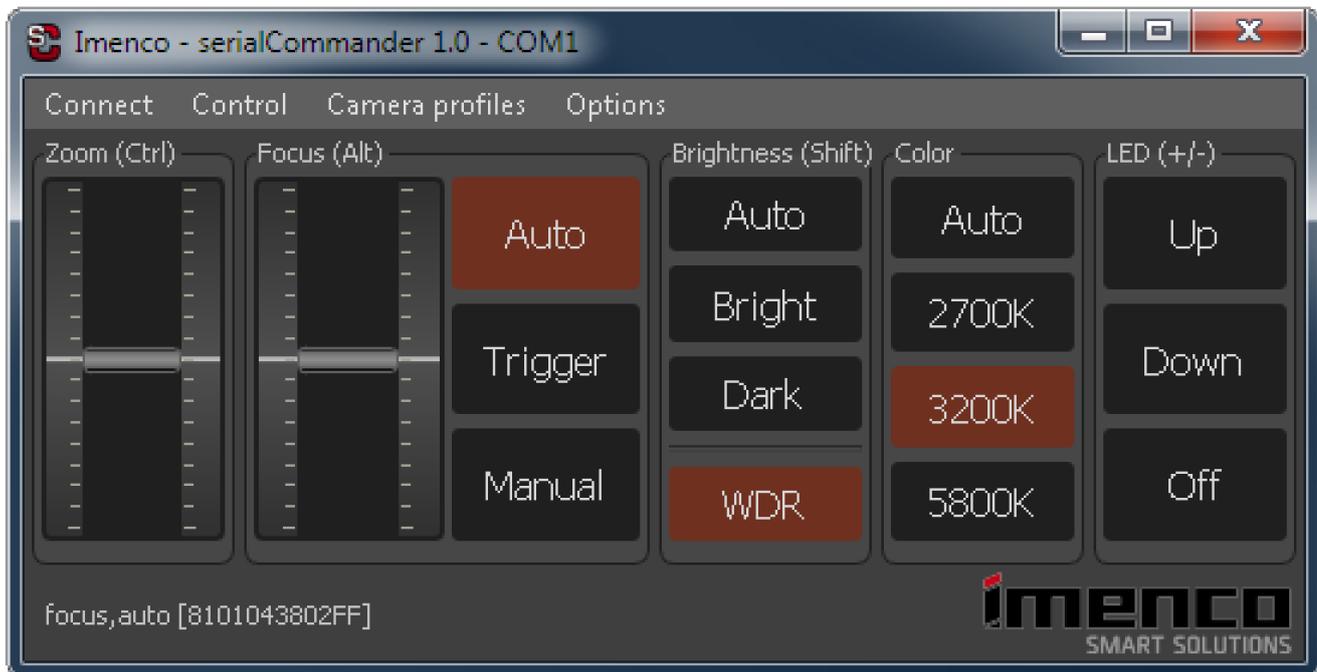
1.2 Requirements

- Windows 7, 8 or 10 installed on PC
- Available serial port for communication with camera



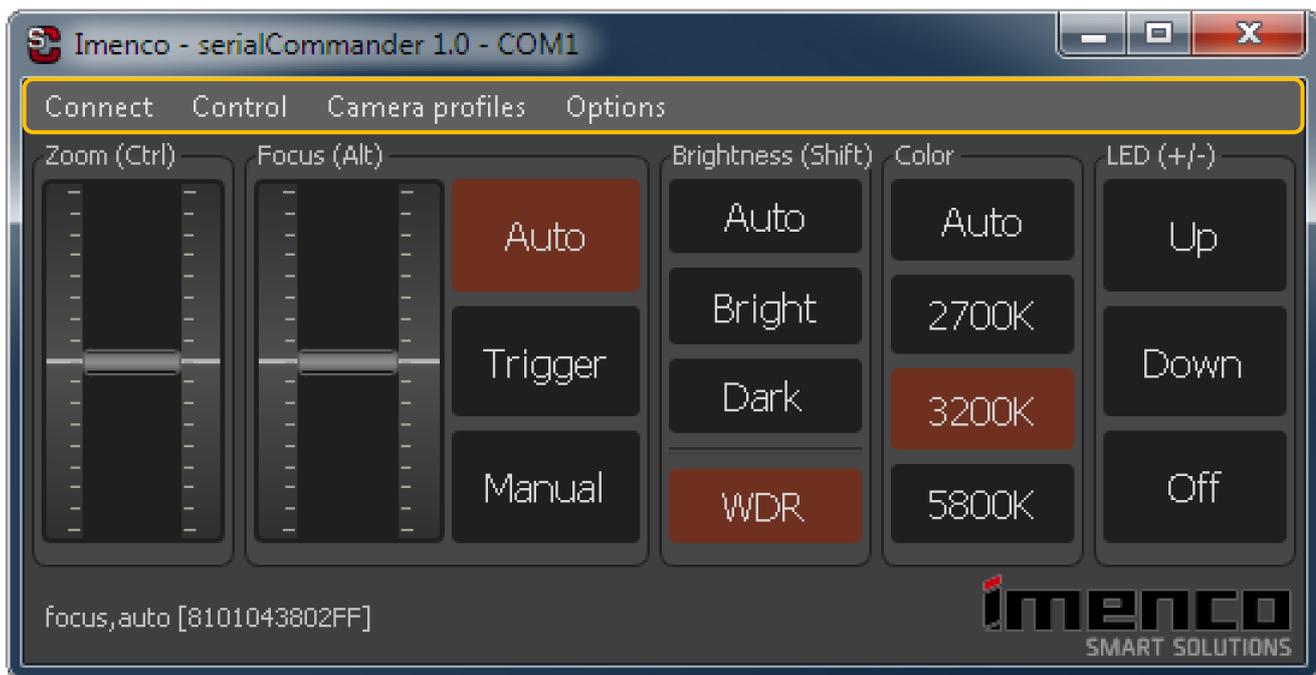
Using serialCommander

2.1 User interface

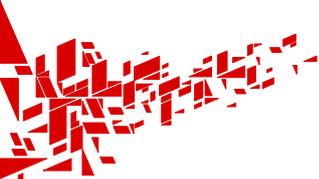


The Imenco serialCommander uses a modern dark user interface for comfortable long duration usage. User interactions have high visibility color indications to avoid any uncertainty. Features that have an on/off operational state, are highlighted when active.

2.2 Pulldown menus



- **Connect**
Open or close a serial port connection
- **Control**
Select which control panels that should be visible in the user interface
- **Camera profiles**
Load or save camera settings in profiles
- **Options**
Additional options like enabling extended serial port parameters

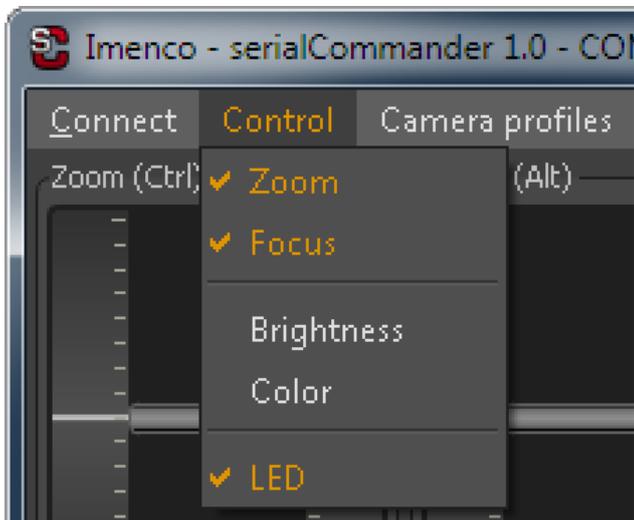


2.2.1 Connect



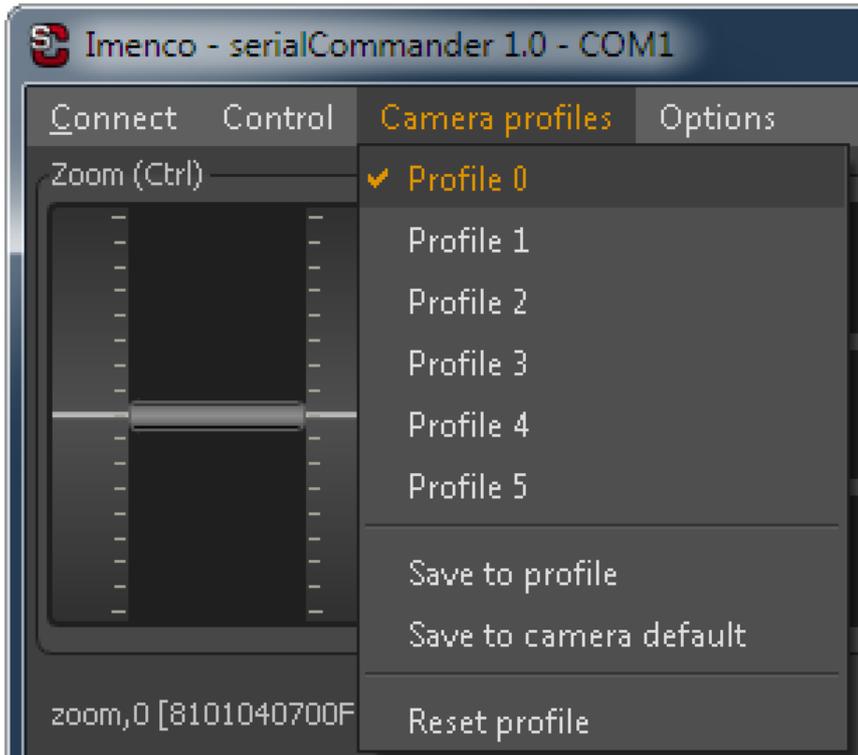
Select <Connect> to list available serial ports found in the system. Click the serial port by name (COM1, COM2 etc.) to connect and start controlling the camera. Re-select an already active serial port name to disconnect.

2.2.1 Control



To avoid unwanted clutter it is possible to select which control panels that should be visible in the user interface at any time. Click the <Control> pulldown and select the panels that you want to show or hide.

2.2.1 Camera profiles



Camera settings can be stored in camera profiles, and be recalled at a later time when needed.

- **Profile (0-5)**
Activate selected profile and load camera settings
- **Save to profile**
Store your current camera settings in the active profile*
- **Save to camera default**
Store the current camera settings so that they become the default settings when the camera is turned on
- **Reset profile**
Reset the active profile to camera factory default settings*

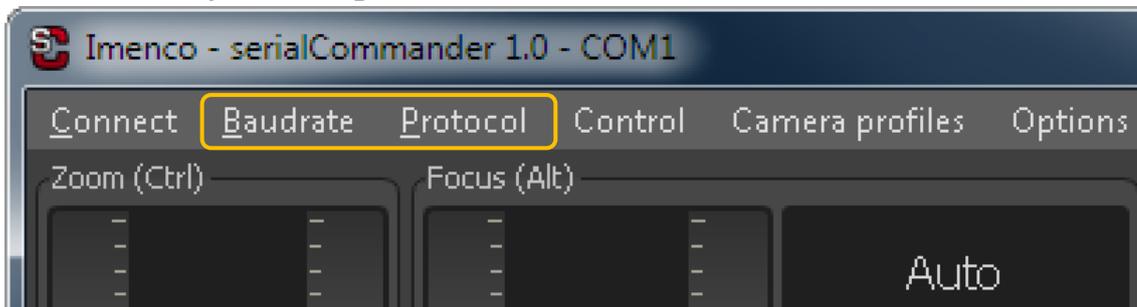
* A profile must be selected and active to enable this functionality.

2.2.2 Options



Select the <Options> pulldown menu to display and select any additional options that may be available.

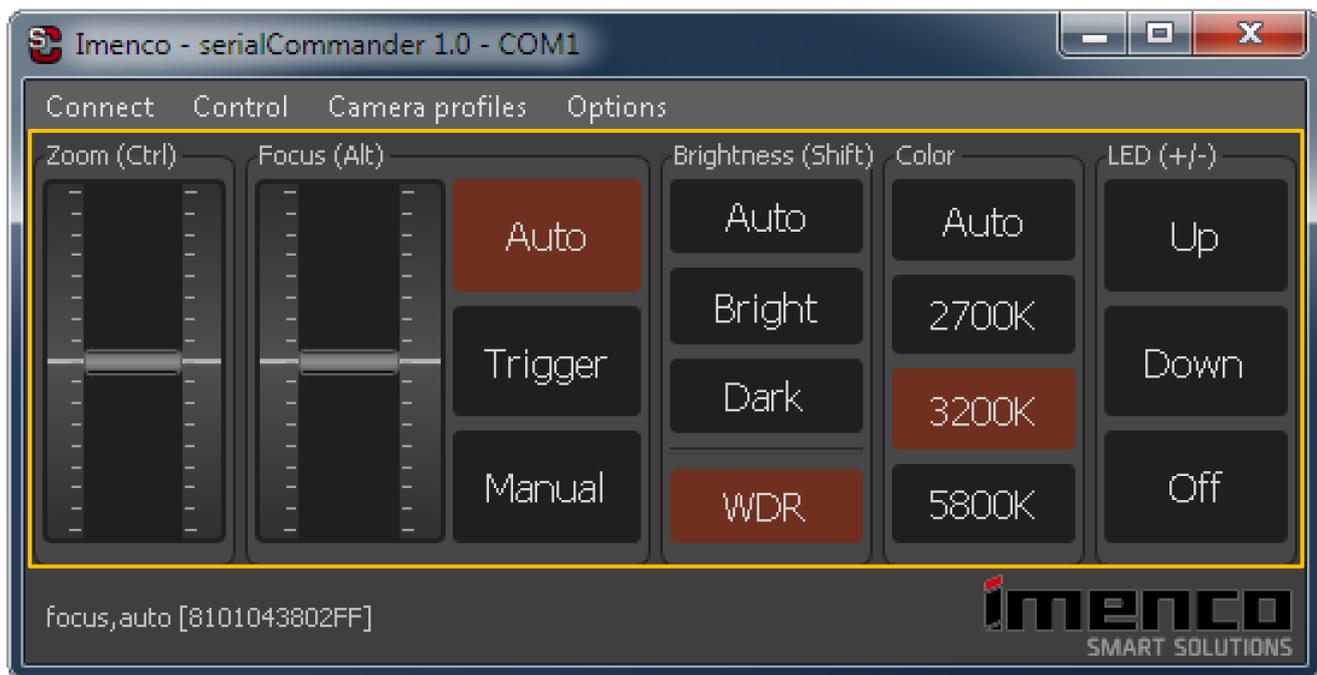
2.2.2.1 Serial port settings



Under the <Options> pulldown menu select the <Serial port settings> option, to make extended serial port parameters available.

- **Baudrate**
Select the wanted serial communication speed (9600baud default)
- **Protocol**
 - **Data-bits**
Number of data bits in each character transfer (8-bit default)
 - **Parity**
Data error correction (None default)
 - **Stop-bits**
Number of stop bits in each character transfer (1-bit default)
 - **Flowcontrol**
Communication flow control system (None default)

2.3 Control panels



Camera parameters are changed and controlled by operating the control panels. The panels are grouped by type of operation, and can be hidden from the user interface if they are not needed.

Available panels are:

- **Zoom**
Operate camera zoom* (optical and digital)
- **Focus**
Adjust camera focus*
- **Brightness**
Camera image brightness related parameters*
- **Color**
Adjust camera white balance*
- **LED**
Adjust LED illumination intensity*

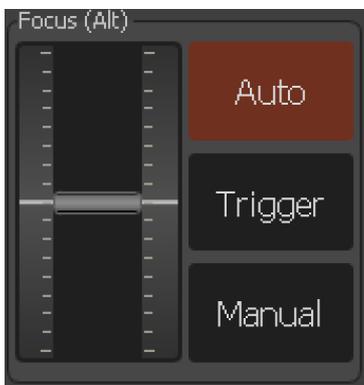
*Functionality may not be available depending on which camera model is in use

2.3.1 Zoom



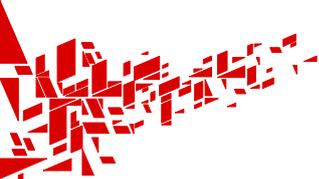
The zoom panel controls the camera optical and/or digital zoom. The position of the vertical slider changes zoom direction and speed. Moving the slider upwards will make the camera zoom into an object (Tele) and downwards will make it zoom out (Wide). The slider can also be manipulated using the mouse scroll wheel or keyboard shortcuts (appendix).

2.3.2 Focus



The focus panel controls the camera optical focus and focus modes. The position of the vertical slider changes focus direction and speed. Moving the slider upwards will make the camera focus further way (Far) and downwards will make it focus closer (Near). The slider can also be manipulated using the mouse scroll wheel or keyboard shortcuts (appendix).

- **Auto**
Activate camera auto focus
- **Trigger**
Auto focus once and lock focus position
- **Manual**
User controlled manual focus using the focus slider

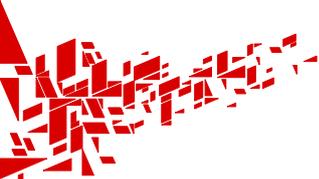


2.3.3 Brightness



The brightness panel controls image exposure controls and additional functions related to video image brightness.

- **Auto**
Select auto image exposure
- **Bright**
Adjust image exposure for a brighter picture
- **Dark**
Adjust image exposure for a darker picture
- **WDR**
Using WDR (Wide Dynamic Range) may improve picture quality in difficult conditions with bright and dark image sections at the same time, but may also lead to some additional video ghosting during low light conditions.

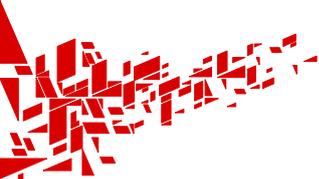


2.3.4 Color



The color panel controls camera color temperature (white balance) settings.

- **Auto**
Auto select camera white balance
- **2700K**
Set camera color temperature (white balance) to 2700 Kelvin (Incandescent / Tungsten)
- **3200K**
Set camera color temperature (white balance) to 3200 Kelvin (Halogen / Indoor)
- **5800K**
Set camera color temperature (white balance) to 5800 Kelvin (Daylight / Outdoor)



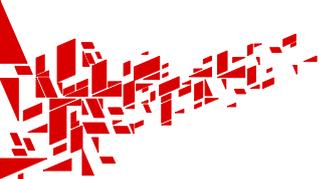
2.3.5 LED



The LED panel controls camera illumination intensity*.

- **Up**
Increase illumination
- **Down**
Decrease illumination
- **Off**
Turn of illumination

*Functionality may not be available depending on which camera model is used



Appendix

3 Keyboard shortcuts

-  Zoom TELE
-  +  Zoom TELE – Variable speed
-  Zoom WIDE
-  +  Zoom WIDE – Variable speed
-  Activate auto focus
-  Trigger one push focus
-  +  Focus FAR
-  +  Focus NEAR
-  +  Image brighter
-  +  Image darker
-  LED up
-  LED down
-  LED off