

Release Notes for IDS Software Suite 4.90.6

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Introduction

These release notes describe the changes of the IDS Software Suite 4.90.6. This version supports numerous new camera models.

New products

New camera models

UI-3040CP Rev. 2

- Global shutter CMOS sensor
- Long exposure of up to 30 seconds
- 1448 x 1086 px (1.6 MP) with 3.5 µm pixel size
- Binning (only in monochrome version), subsampling (horizontal and vertical)
- Line scan mode, multi AOI
- Supports overlap trigger mode for high frame rates in trigger mode
- Available as color or monochrome version

UI-3260SE, UI-3261SE & UI-3262SE

- Perfect color reproduction
- Extraordinarily high dynamic range (72 dB)

- Extremely low-noise (6.2 e⁻)
- Global shutter
- Subsampling (horizontal and vertical)
- Long exposure of up to 30 seconds
- Screw-on USB 3.0 connectors
- Integrated image memory
- Available as color or monochrome version

UI-3280SE, UI-3281SE & UI-3282SE

- Optimized Sony CMOS pixel: 3.45 μm
- High-resolution global shutter sensor: 2456 x 2054 (5.04 MP)
- Compact 2/3" area sensor
- Frame rate: 36 fps
- Triggered line scan mode
- Long exposure of up to 30 seconds

UI-3370SE, UI-3371SE & UI-3372SE

- Extremely large 1" optical format
- Up to 80 fps at full resolution
- Up to 12 bits per pixel
- Global shutter
- Fast trigger mode (further exposure possible during readout)
- Line scan mode for endless web inspection systems
- Multi AOI (up to 8 AOIs possible)
- Interleave HDR mode

UI-5040CP Rev. 2

- 1448 x 1086 px (1.6 MP) with 3.45 μm pixel size
- Global shutter CMOS sensor
- Long exposure of up to 30 seconds
- Binning (only in monochrome version), subsampling (horizontal and vertical)
- Supports overlap trigger mode for high frame rates in trigger mode
- Multi AOI
- Available as color or monochrome version

UI-5240SE Rev. 4, UI-5241SE Rev. 4 & UI-5242SE Rev. 4

- Rolling/global shutter sensor e2v EV76C560
- Wide-angle 1/1.8" sensor with a pixel size of 5.3 μm
- Common resolution in machine vision market: 1280 x 1024 px (1.31 MP)
- 60 fps @ 1280 x 1024 px
- Switching between different shutter modes
- Multi AOI, sequence AOI, Log modes
- Available as color, monochrome or NIR version

UI-5270SE Rev. 4, UI-5271SE Rev. 4 & UI-5272SE Rev. 4

- Global shutter CMOS sensor Sony IMX265
- 1/1.8" area sensor with a pixel size of 3.45 μm

- High resolution of 3.17 MP (2056 x 1542 px)
- Aspect ratio 4:3
- Full resolution with up to 36 fps
- Long exposure of up to 30 seconds
- 12 bits per pixel
- Available as color or monochrome version

UI-5280SE Rev. 4, UI-5281SE Rev. 4 & UI-5282SE Rev. 4

- Global shutter CMOS sensor Sony IMX264
- High resolution sensor: 2456 x 2054 px (5.04 MP)
- Compact 2/3" area sensor with an aspect ratio of 5:4
- Optimized Sony CMOS pixels: 3.45 µm
- Frame rate: 23 fps
- 12 bits per pixel
- Long exposure of up to 30 seconds
- Available as color or monochrome version

UI-5860FA, UI-5860SE Rev. 4, UI-5861SE Rev. 4 & UI-5862SE Rev. 4

- Rolling shutter CMOS sensor Sony IMX290
- 1/3" sensor with a pixel size of 2.9 µm
- Aspect ratio 16:9 (1936 x 1096 px)
- Full resolution (2.12 MPix) with full GigE bandwidth at 53.0 fps
- 12 bits per pixel
- Long exposure of up to 120 seconds
- Very light-sensitive BSI sensor
- Available as color or monochrome version

UI-5880FA, UI-5880SE Rev. 4, UI-5881SE Rev. 4 & UI-5882SE Rev. 4

- Rolling shutter CMOS sensor Sony IMX178
- 1/1.8" sensor with 2.4 µm pixel size
- Aspect ratio 3:2 (3088 x 2076 px)
- Extremely low-noise (less than 2 electrons/second), comes close to SCMOS sensors
- Long exposure of up to 120 seconds
- Available as color or monochrome version

Known issues

- In IDS line scan, the GigE uEye CP Rev. 2 models may lose a line between two images with a pixel clock > 60 MHz.

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