

DFK 21AU04 Color Camera

The Imaging Source "21" Series USB 2.0 Camera



Only 50.6 x 50.6 x 56 mm

Lens not included

The Imaging Source DFK 21AU04 color camera has a USB 2.0 interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The color camera ships with the very sensitive 1/4" Sony CCD ICX098BQ sensor. With up to 60 images per second, the DFK 21AU04 is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board lenses.

The Imaging Source authors and supports drivers, SDKs, extensions and end-user software for Microsoft Windows, which can be freely downloaded from our web site. Extensions for Microsoft Windows enable the DFK 21AU04 to be integrated in to common machine vision software libraries, such as LabView and OpenCV.

Features

- USB 2.0 interface.
- 1/4" Sony CCD ICX098BQ.
- Global shutter.
- 640 x 480 (0.3 MP).
- Up to 60 images per second.
- Compatible to C and CS mount lenses.
- Only 50.6 x 50.6 x 56 mm.

Accessories

- CS to C mount adapter (shipped as standard).
- CS to M12 board lens adapters.
- C and CS mount lenses.
- M12 board lenses.
- Standard USB 2.0 cable in various lengths.
- 5 m USB 2.0 cable with fixing screws.

Device Drivers for Microsoft Windows

Device Driver for The Imaging Source USB Cameras.

Software Development Kits (SDKs) for Microsoft Windows

IC Imaging Control .NET Component, C++ Class Library, IC Imaging Control C Library, IC Imaging Control ActiveX and IC Imaging Control ActiveX Runtime Setup.

Extensions for Microsoft Windows

TWAIN Source for IC Imaging Control, Cognex VisionPro AIK Plugin for IC Imaging Control, ActivVisionTools Driver for IC Imaging Control, HALCON Extension for IC Imaging Control, LabVIEW Extension for IC Imaging Control, IC Matlab Plugin for Matlab 10.0 R2010 and IC Matlab Plugin for Matlab R2013b.

End User Software for Microsoft Windows

IC Capture, Image Acquisition, IC Fullscreen Presenter and Footswitch software for IC Capture.

Software Tools for Microsoft Windows

Processor Idle State Manager and Hot Pixel Correction.

DFK 21AU04 Specification

GENERAL BEHAVIOR

| | |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| Video formats @ frame rate | 640 x 480 (0.3 MP), UYVY @ 30, 15, 7.5, 3.75 FPS 640 x 480 (0.3 MP), BY8 @ 60, 30, 15, 7.5, 3.75 FPS |
| Sensitivity | 0.10 lx |
| Dynamic range | 8 bit |

INTERFACE (OPTICAL)

| | |
|----------------------|-------------------------------|
| IR cut filter | yes |
| Sensor specification | Sony ICX098BQ |
| Shutter | Global |
| Format | 1/4 " |
| Resolution | H: 640 pixel, V: 480 pixel |
| Pixel size | H: 5.6 µm, V: 5.6 µm |
| Lens mount | C/CS |

INTERFACE (ELECTRICAL)

| | |
|---------------------|------------------------|
| Interface | USB |
| Supply voltage | 4.5 VDC to 5.5 VDC |
| Current consumption | approx 500 mA at 5 VDC |

INTERFACE (MECHANICAL)

| | |
|------------|----------------------------------|
| Dimensions | H: 50.6 mm, W: 50.6 mm, L: 56 mm |
| Mass | 265 g |

ADJUSTMENTS (MANUAL)

| | |
|---------------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |
| Saturation | 0 % to 200 % |
| White balance | -2 dB to +6 dB |

ADJUSTMENTS (AUTOMATIC)

| | |
|---------------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |
| White balance | -2 dB to +6 dB |

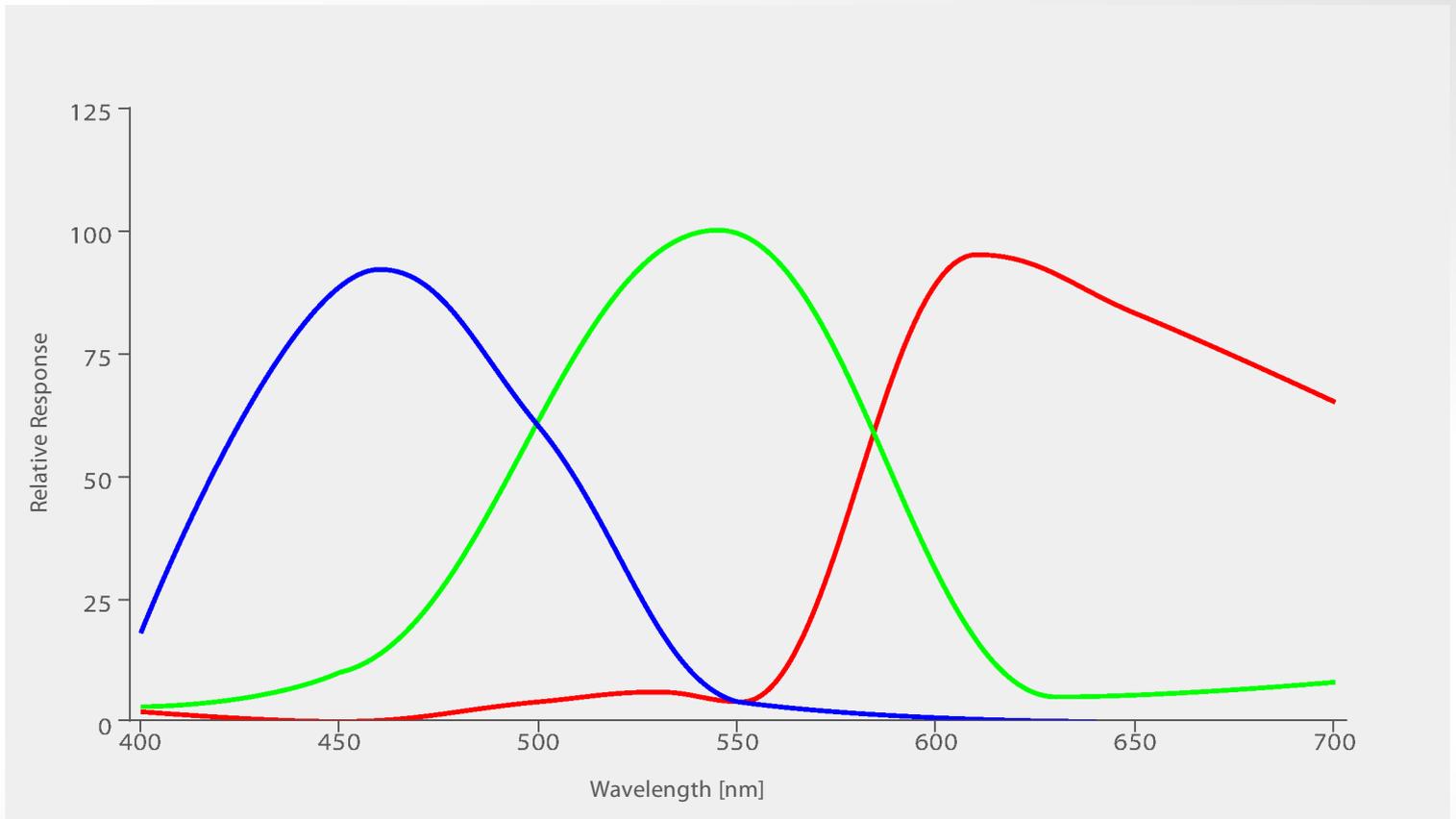
ENVIRONMENTAL

| | |
|-------------------------|-----------------------------|
| Temperature (operation) | -5 °C to 45 °C |
| Temperature (storage) | -20 °C to 60 °C |
| Humidity (operation) | 20 % to 80 % non-condensing |
| Humidity (storage) | 20 % to 95 % non-condensing |

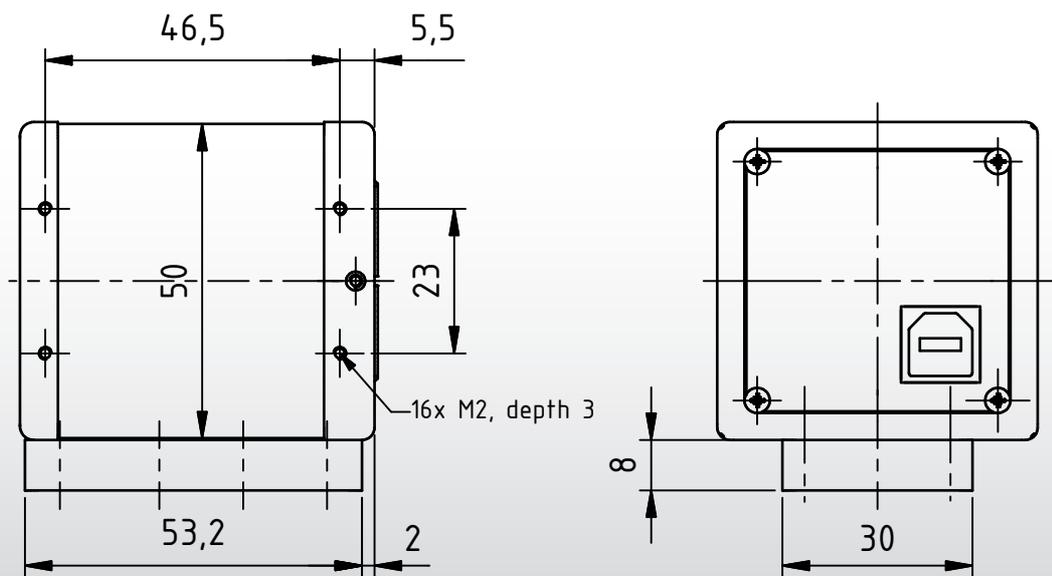
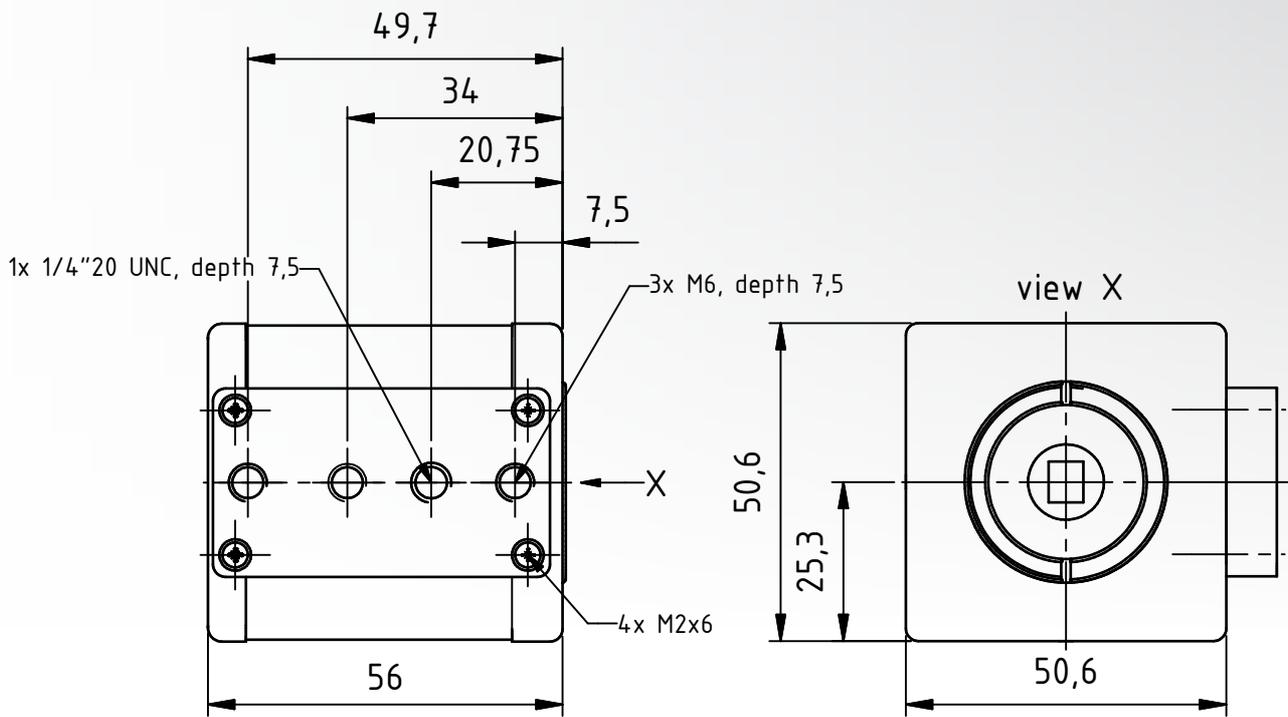
Subject to change

Sony ICX098BQ Spectral Response Curve

CCD Sensor in DFK 21AU04



DFK 21AU04 Dimensional Diagram



Dimensions: mm
 Tolerances: DIN ISO 2768m



DFK 21BU04 Color Camera

The Imaging Source "21" Series USB 2.0 Camera



Only 50.6 x 50.6 x 56 mm

Lens not included

The Imaging Source DFK 21BU04 color camera has a USB 2.0 interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The color camera ships with the very sensitive 1/4" Sony CCD ICX098BQ sensor. With up to 60 images per second, the DFK 21BU04 is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board lenses.

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Features

- USB 2.0 interface.
- 1/4" Sony CCD ICX098BQ.
- Global shutter.
- 640 x 480 (0.3 MP).
- Up to 60 images per second.
- Trigger input.
- Compatible to C and CS mount lenses.
- Only 50.6 x 50.6 x 56 mm.

Accessories

- CS to C mount adapter (shipped as standard).
- CS to M12 board lens adapters.
- C and CS mount lenses.
- M12 board lenses.
- Standard USB 2.0 cable in various lengths.
- 5 m USB 2.0 cable with fixing screws.
- Trigger cable.

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End User Software for Microsoft Windows

IC Capture, Image Acquisition, IC Fullscreen Presenter and Footswitch software for IC Capture.

Software Tools for Microsoft Windows

Processor Idle State Manager and Hot Pixel Correction.

DFK 21BU04 Specification

GENERAL BEHAVIOR

| | |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| Video formats @ frame rate | 640 x 480 (0.3 MP), UYVY @ 30, 15, 7.5, 3.75 FPS 640 x 480 (0.3 MP), BY8 @ 60, 30, 15, 7.5, 3.75 FPS |
| Sensitivity | 0.10 lx |
| Dynamic range | 8 bit |

INTERFACE (OPTICAL)

| | |
|----------------------|-------------------------------|
| IR cut filter | yes |
| Sensor specification | Sony ICX098BQ |
| Shutter | Global |
| Format | 1/4 " |
| Resolution | H: 640 pixel, V: 480 pixel |
| Pixel size | H: 5.6 µm, V: 5.6 µm |
| Lens mount | C/CS |

INTERFACE (ELECTRICAL)

| | |
|---------------------|------------------------|
| Interface | USB |
| Supply voltage | 4.5 VDC to 5.5 VDC |
| Current consumption | approx 500 mA at 5 VDC |

INTERFACE (MECHANICAL)

| | |
|------------|----------------------------------|
| Dimensions | H: 50.6 mm, W: 50.6 mm, L: 56 mm |
| Mass | 265 g |

ADJUSTMENTS (MANUAL)

| | |
|---------------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |
| Saturation | 0 % to 200 % |
| White balance | -2 dB to +6 dB |

ADJUSTMENTS (AUTOMATIC)

| | |
|---------------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |
| White balance | -2 dB to +6 dB |

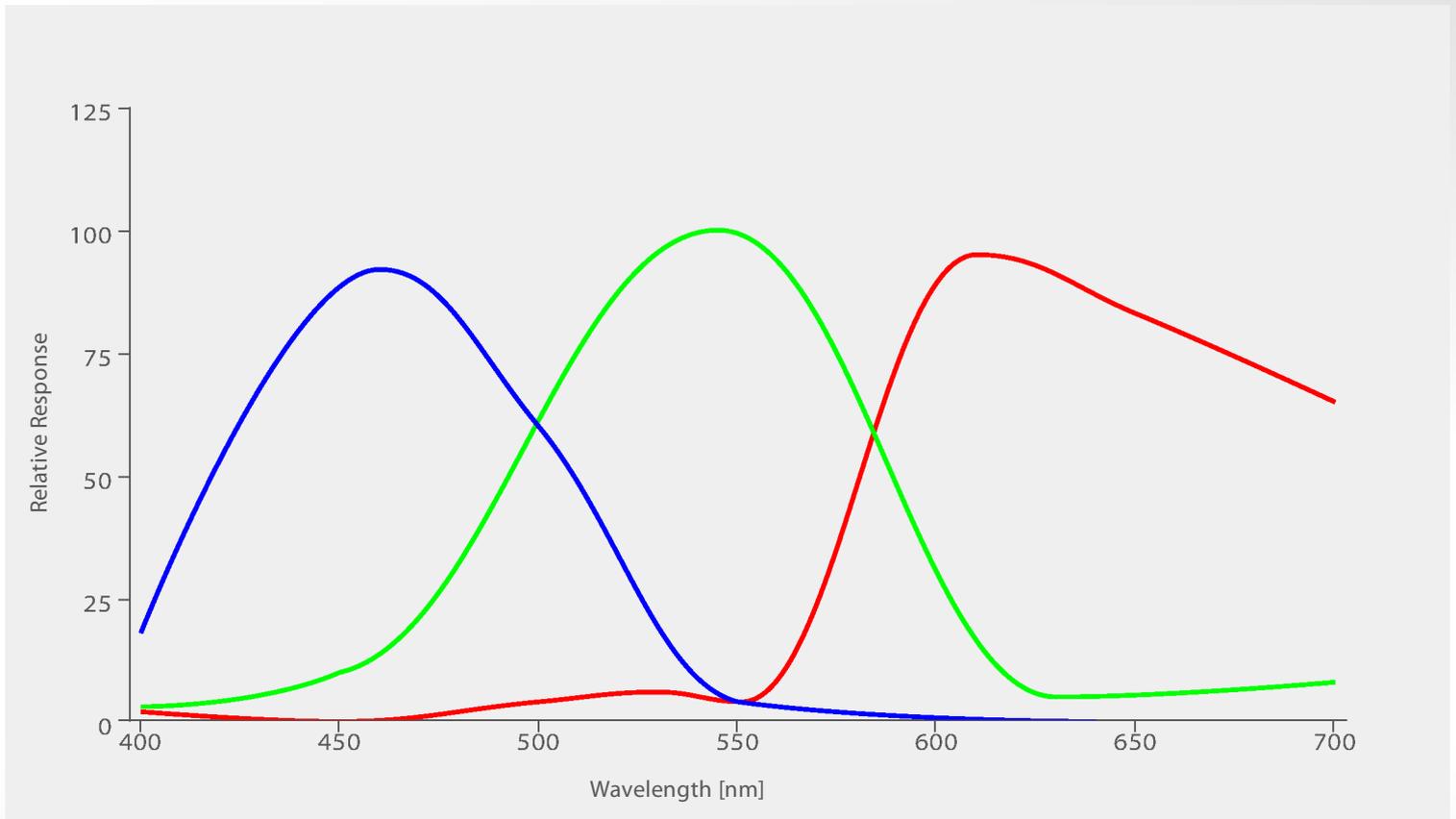
ENVIRONMENTAL

| | |
|-------------------------|-----------------------------|
| Temperature (operation) | -5 °C to 45 °C |
| Temperature (storage) | -20 °C to 60 °C |
| Humidity (operation) | 20 % to 80 % non-condensing |
| Humidity (storage) | 20 % to 95 % non-condensing |

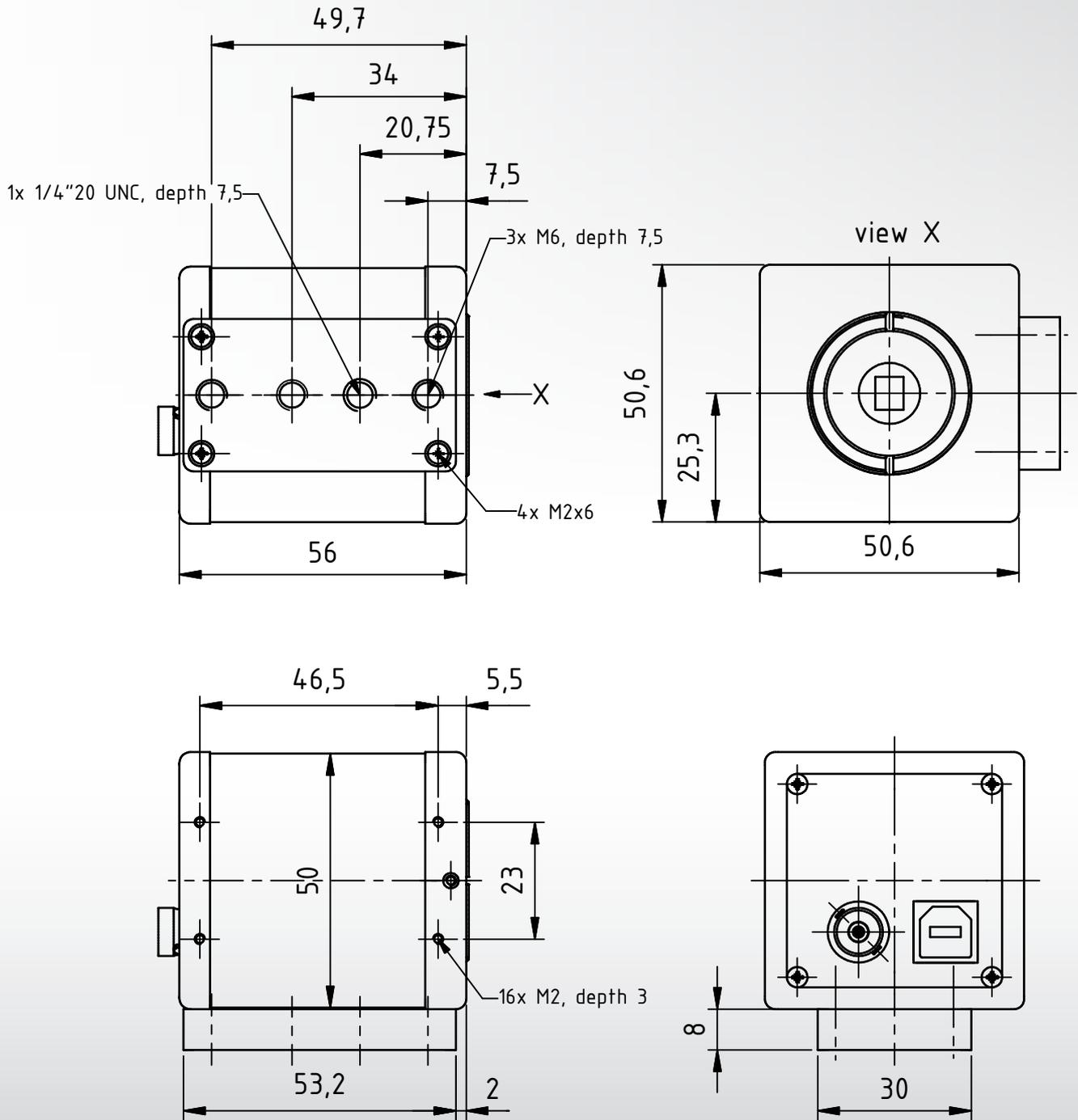
Subject to change

Sony ICX098BQ Spectral Response Curve

CCD Sensor in DFK 21BU04



DFK 21BU04 Dimensional Diagram



Dimensions: mm
 Tolerances: DIN ISO 2768m



DFK 21BU04.H Color Camera

The Imaging Source "21" Series USB 2.0 Camera



Only 50.6 x 50.6 x 56 mm

Lens not included

The Imaging Source DFK 21BU04.H color camera has a USB 2.0 interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The color camera ships with the very sensitive 1/4" Sony CCD ICX098BQ sensor. With up to 60 images per second, the DFK 21BU04.H is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board lenses.

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Features

- USB 2.0 interface.
- 1/4" Sony CCD ICX098BQ.
- Global shutter.
- 640 x 480 (0.3 MP).
- Up to 60 images per second.
- Trigger input and I/Os.
- Compatible to C and CS mount lenses.
- Only 50.6 x 50.6 x 56 mm.

Accessories

- CS to C mount adapter (shipped as standard).
- CS to M12 board lens adapters.
- C and CS mount lenses.
- M12 board lenses.
- Standard USB 2.0 cable in various lengths.
- 5 m USB 2.0 cable with fixing screws.
- Trigger cable.

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End User Software for Microsoft Windows

IC Capture, Image Acquisition, IC Fullscreen Presenter and Footswitch software for IC Capture.

Software Tools for Microsoft Windows

Processor Idle State Manager and Hot Pixel Correction.

DFK 21BU04.H Specification

GENERAL BEHAVIOR

| | |
|----------------------------|---------------------------------------------------------------------------------------------------------|
| Video formats @ frame rate | 640 x 480 (0.3 MP), UYVY @ 30, 15, 7.5, 3.75 FPS 640 x 480 (0.3 MP), BY8 @ 60, 30, 15, 7.5, 3.75 FPS |
| Sensitivity | 0.10 lx |
| Dynamic range | 8 bit |

INTERFACE (OPTICAL)

| | |
|----------------------|-------------------------------|
| IR cut filter | yes |
| Sensor specification | Sony ICX098BQ |
| Shutter | Global |
| Format | 1/4 " |
| Resolution | H: 640 pixel, V: 480 pixel |
| Pixel size | H: 5.6 µm, V: 5.6 µm |
| Lens mount | C/CS |

INTERFACE (ELECTRICAL)

| | |
|---------------------|------------------------|
| Interface | USB |
| Supply voltage | 4.5 VDC to 5.5 VDC |
| Current consumption | approx 500 mA at 5 VDC |

INTERFACE (MECHANICAL)

| | |
|------------|----------------------------------|
| Dimensions | H: 50.6 mm, W: 50.6 mm, L: 56 mm |
| Mass | 265 g |

ADJUSTMENTS (MANUAL)

| | |
|---------------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |
| Saturation | 0 % to 200 % |
| White balance | -2 dB to +6 dB |

ADJUSTMENTS (AUTOMATIC)

| | |
|---------------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |
| White balance | -2 dB to +6 dB |

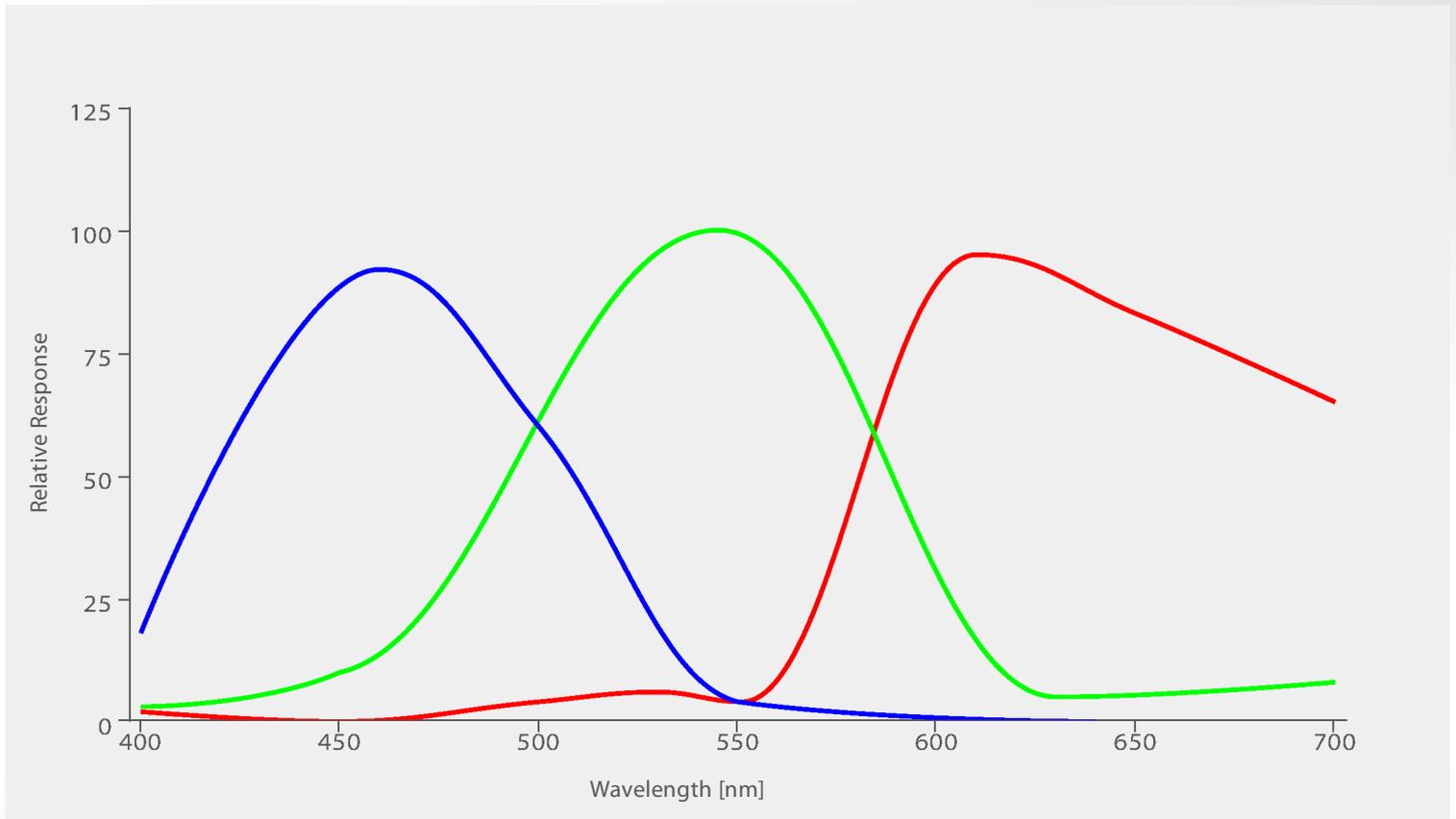
ENVIRONMENTAL

| | |
|-------------------------|-----------------------------|
| Temperature (operation) | -5 °C to 45 °C |
| Temperature (storage) | -20 °C to 60 °C |
| Humidity (operation) | 20 % to 80 % non-condensing |
| Humidity (storage) | 20 % to 95 % non-condensing |

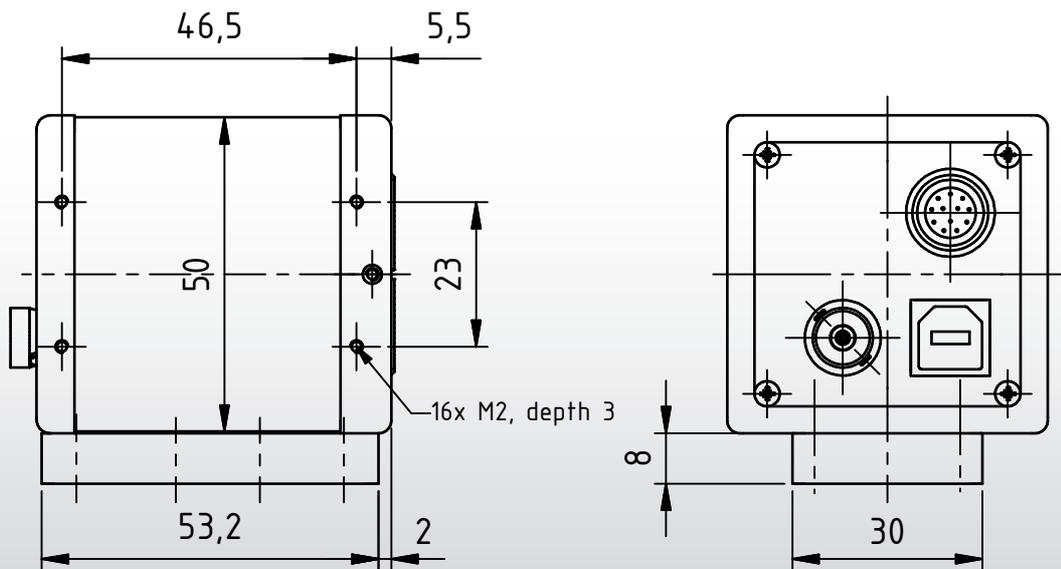
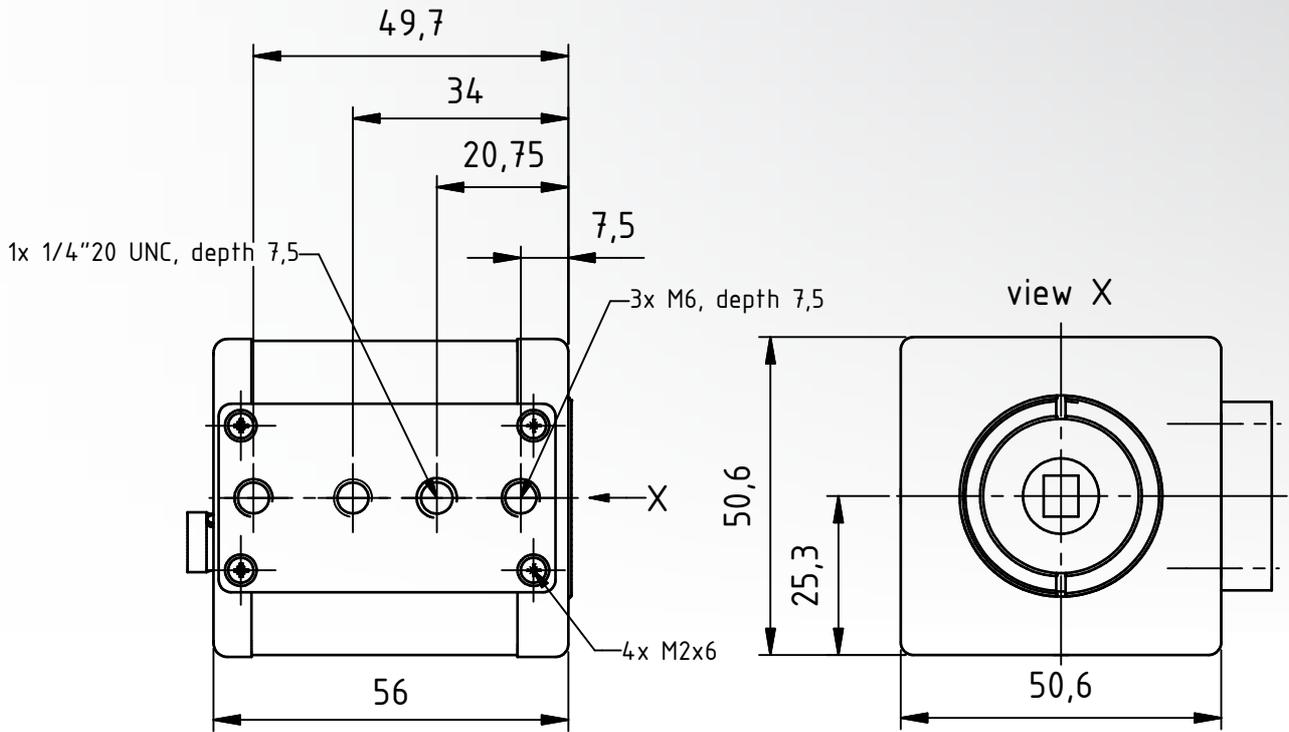
Subject to change

Sony ICX098BQ Spectral Response Curve

CCD Sensor in DFK 21BU04.H



DFK 21BU04.H Dimensional Diagram



Dimensions: mm
 Tolerances: DIN ISO 2768m



DMK 21AU04 Monochrome Camera

The Imaging Source "21" Series USB 2.0 Camera



Only 50.6 x 50.6 x 56 mm

Lens not included

The Imaging Source DMK 21AU04 monochrome camera has a USB 2.0 interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The monochrome camera ships with the very sensitive $\frac{1}{4}$ " Sony CCD ICX098BL sensor. With up to 60 images per second, the DMK 21AU04 is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board lenses.

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Features

- USB 2.0 interface.
- $\frac{1}{4}$ " Sony CCD ICX098BL.
- Global shutter.
- 640 x 480 (0.3 MP).
- Up to 60 images per second.
- Compatible to C and CS mount lenses.
- Only 50.6 x 50.6 x 56 mm.

Accessories

- CS to C mount adapter (shipped as standard).
- CS to M12 board lens adapters.
- C and CS mount lenses.
- M12 board lenses.
- Standard USB 2.0 cable in various lengths.
- 5 m USB 2.0 cable with fixing screws.

Device Drivers for Microsoft Windows

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End User Software for Microsoft Windows

IC Capture, Image Acquisition, IC Fullscreen Presenter and Footswitch software for IC Capture.

Software Tools for Microsoft Windows

Processor Idle State Manager and Hot Pixel Correction.

DMK 21AU04 Specification

GENERAL BEHAVIOR

| | |
|----------------------------|------------------------------------------------------|
| Video formats @ frame rate | 640 x 480 (0.3 MP), Y800 @ 60, 30, 15, 7.5, 3.75 FPS |
| Sensitivity | 0.03 lx |
| Dynamic range | 8 bit |

INTERFACE (OPTICAL)

| | |
|----------------------|-------------------------------|
| IR cut filter | no |
| Sensor specification | Sony ICX098BL |
| Shutter | Global |
| Format | 1/4 " |
| Resolution | H: 640 pixel, V: 480 pixel |
| Pixel size | H: 5.6 μm, V: 5.6 μm |
| Lens mount | C/CS |

INTERFACE (ELECTRICAL)

| | |
|---------------------|------------------------|
| Interface | USB |
| Supply voltage | 4.5 VDC to 5.5 VDC |
| Current consumption | approx 500 mA at 5 VDC |

INTERFACE (MECHANICAL)

| | |
|------------|----------------------------------|
| Dimensions | H: 50.6 mm, W: 50.6 mm, L: 56 mm |
| Mass | 265 g |

ADJUSTMENTS (MANUAL)

| | |
|---------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |

ADJUSTMENTS (AUTOMATIC)

| | |
|---------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |

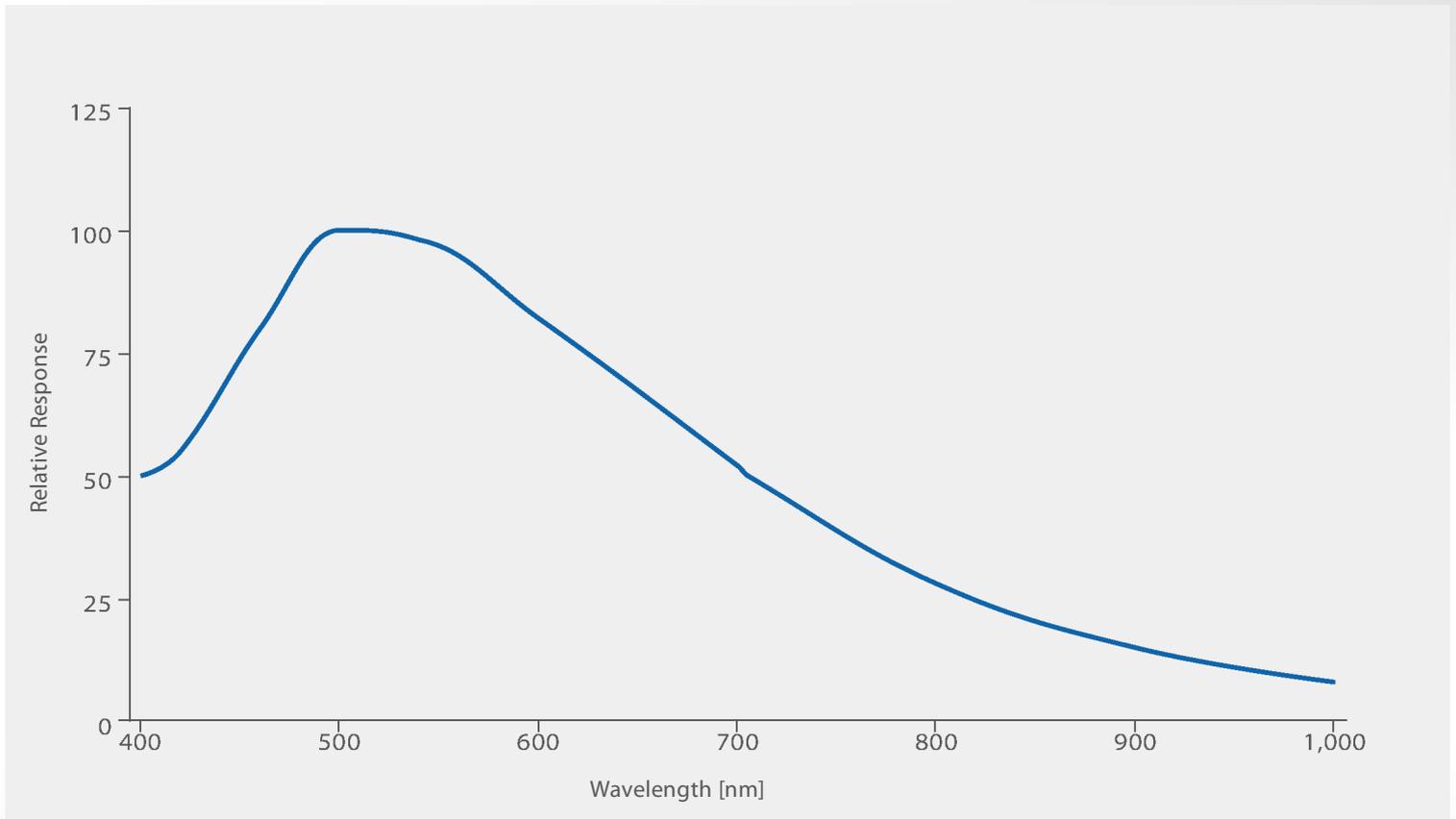
ENVIRONMENTAL

| | |
|-------------------------|-----------------------------|
| Temperature (operation) | -5 °C to 45 °C |
| Temperature (storage) | -20 °C to 60 °C |
| Humidity (operation) | 20 % to 80 % non-condensing |
| Humidity (storage) | 20 % to 95 % non-condensing |

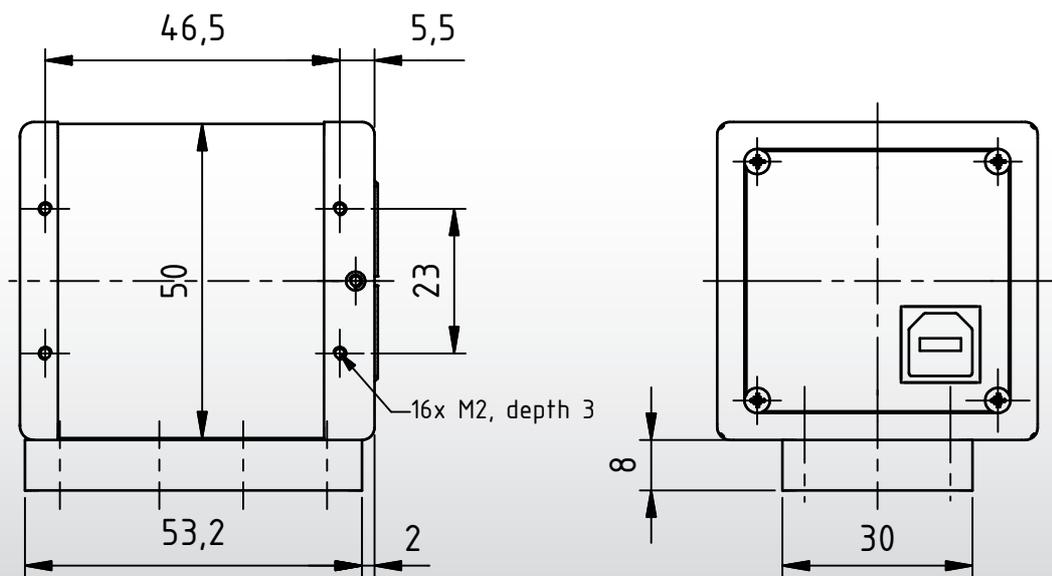
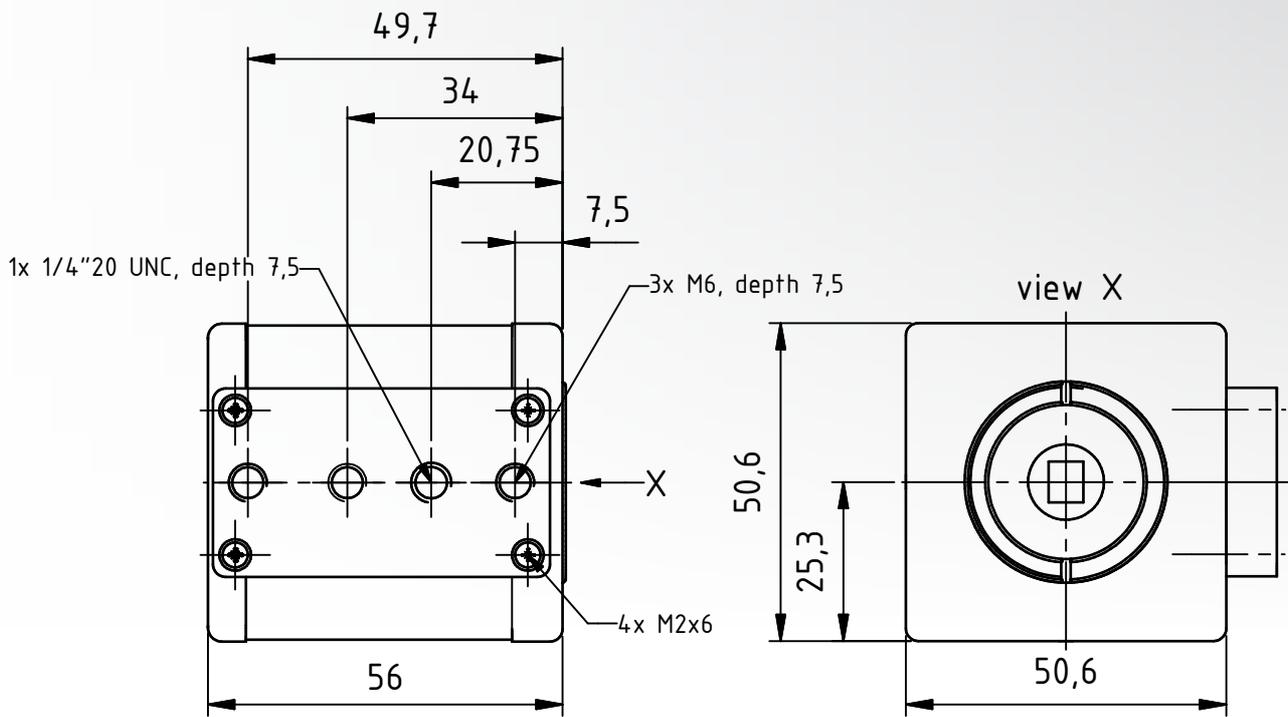
Subject to change

Sony ICX098BL Spectral Response Curve

CCD Sensor in DMK21AU04



DMK 21AU04 Dimensional Diagram



Dimensions: mm
 Tolerances: DIN ISO 2768m



DMK 21BU04 Monochrome Camera

The Imaging Source "21" Series USB 2.0 Camera



Only 50.6 x 50.6 x 56 mm

Lens not included

The Imaging Source DMK 21BU04 monochrome camera has a USB 2.0 interface and is the perfect solution for many industrial automation, quality assurance, security, surveillance and medical applications. The monochrome camera ships with the very sensitive $\frac{1}{4}$ " Sony CCD ICX098BL sensor. With up to 60 images per second, the DMK 21BU04 is a low cost, yet highly versatile imaging solution. The camera includes a C to CS mount adapter, making it compatible to C and CS mount lenses. Using the optional CS to M12 board lens adapter, the camera is also compatible to M12 board lenses.

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Features

- USB 2.0 interface.
- $\frac{1}{4}$ " Sony CCD ICX098BL.
- Global shutter.
- 640 x 480 (0.3 MP).
- Up to 60 images per second.
- Trigger input.
- Compatible to C and CS mount lenses.
- Only 50.6 x 50.6 x 56 mm.

Accessories

- CS to C mount adapter (shipped as standard).
- CS to M12 board lens adapters.
- C and CS mount lenses.
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- Standard USB 2.0 cable in various lengths.
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End User Software for Microsoft Windows

IC Capture, Image Acquisition, IC Fullscreen Presenter and Footswitch software for IC Capture.

Software Tools for Microsoft Windows

Processor Idle State Manager and Hot Pixel Correction.

DMK 21BU04 Specification

GENERAL BEHAVIOR

| | |
|----------------------------|------------------------------------------------------|
| Video formats @ frame rate | 640 x 480 (0.3 MP), Y800 @ 60, 30, 15, 7.5, 3.75 FPS |
| Sensitivity | 0.03 lx |
| Dynamic range | 8 bit |

INTERFACE (OPTICAL)

| | |
|----------------------|-------------------------------|
| IR cut filter | no |
| Sensor specification | Sony ICX098BL |
| Shutter | Global |
| Format | 1/4 " |
| Resolution | H: 640 pixel, V: 480 pixel |
| Pixel size | H: 5.6 µm, V: 5.6 µm |
| Lens mount | C/CS |

INTERFACE (ELECTRICAL)

| | |
|---------------------|------------------------|
| Interface | USB |
| Supply voltage | 4.5 VDC to 5.5 VDC |
| Current consumption | approx 500 mA at 5 VDC |

INTERFACE (MECHANICAL)

| | |
|------------|----------------------------------|
| Dimensions | H: 50.6 mm, W: 50.6 mm, L: 56 mm |
| Mass | 265 g |

ADJUSTMENTS (MANUAL)

| | |
|---------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |

ADJUSTMENTS (AUTOMATIC)

| | |
|---------|--------------------|
| Shutter | 1/10,000 s to 30 s |
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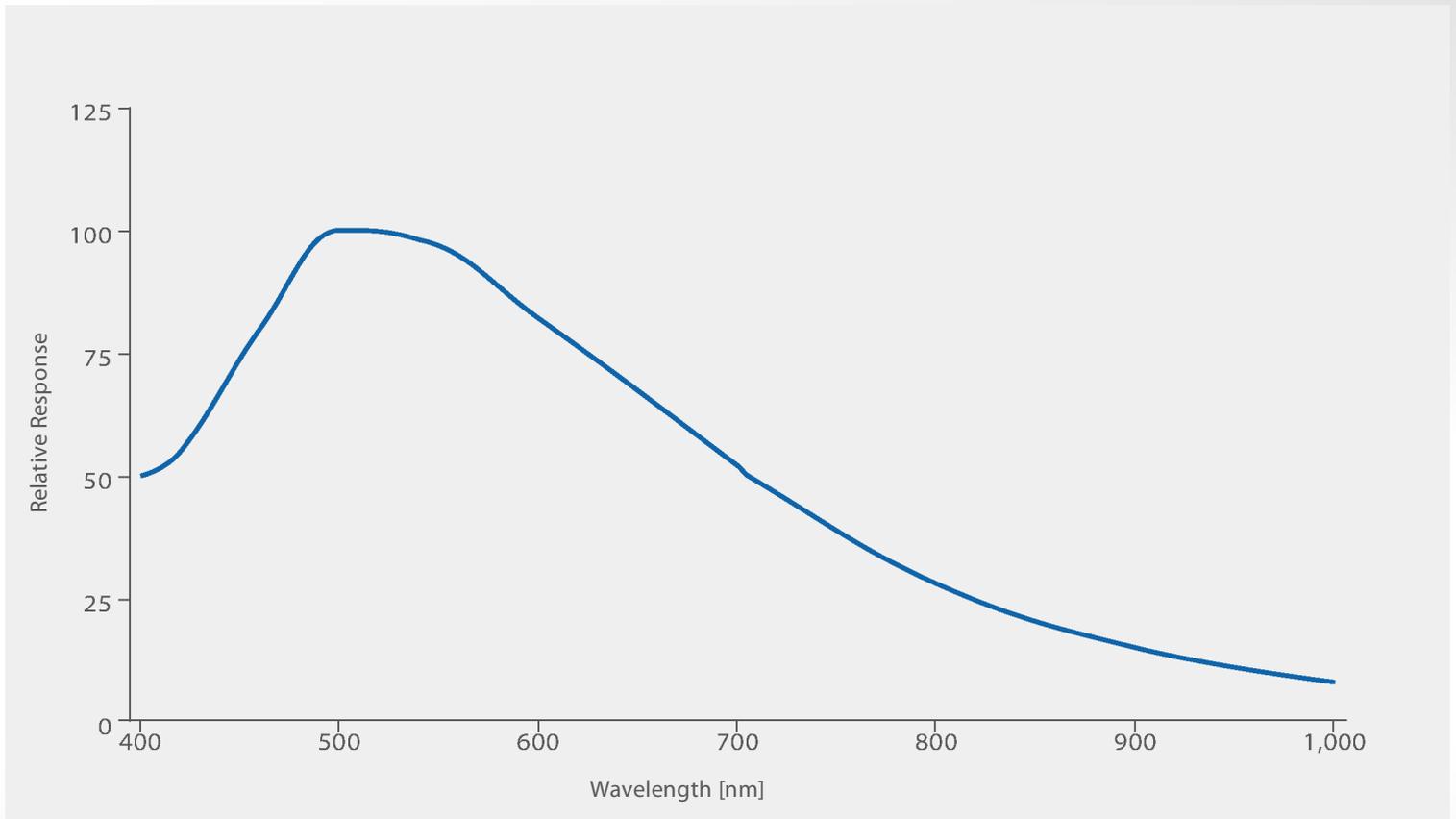
ENVIRONMENTAL

| | |
|-------------------------|-----------------------------|
| Temperature (operation) | -5 °C to 45 °C |
| Temperature (storage) | -20 °C to 60 °C |
| Humidity (operation) | 20 % to 80 % non-condensing |
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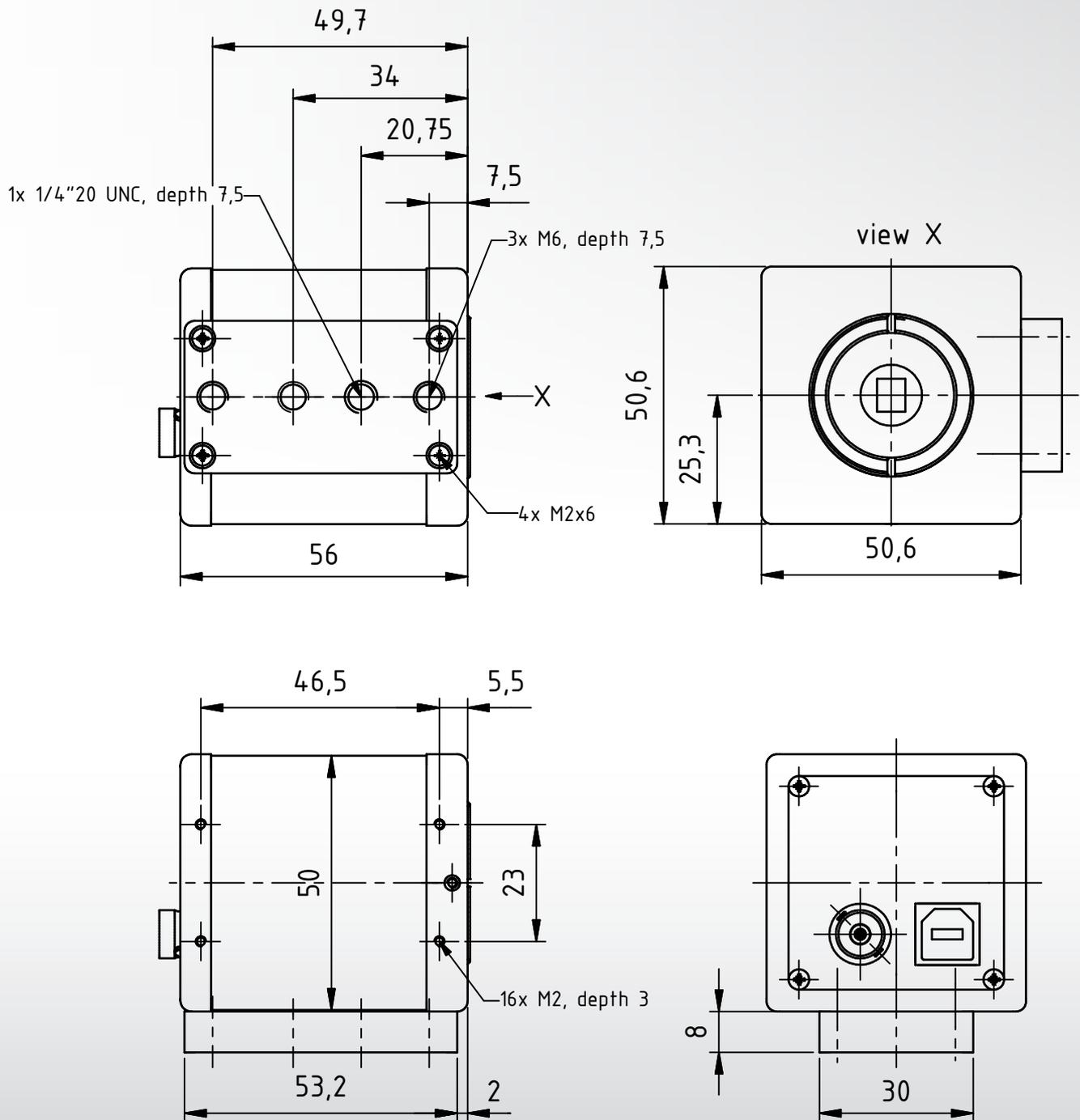
Subject to change

Sony ICX098BL Spectral Response Curve

CCD Sensor in DMK21BU04



DMK 21BU04 Dimensional Diagram



Dimensions: mm
 Tolerances: DIN ISO 2768m



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- USB 2.0 interface.
- $\frac{1}{4}$ " Sony CCD ICX098BL.
- Global shutter.
- 640 x 480 (0.3 MP).
- Up to 60 images per second.
- Trigger input and I/Os.
- Compatible to C and CS mount lenses.
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DMK 21BU04.H Specification

GENERAL BEHAVIOR

| | |
|----------------------------|------------------------------------------------------|
| Video formats @ frame rate | 640 x 480 (0.3 MP), Y800 @ 60, 30, 15, 7.5, 3.75 FPS |
| Sensitivity | 0.03 lx |
| Dynamic range | 8 bit |

INTERFACE (OPTICAL)

| | |
|----------------------|-------------------------------|
| IR cut filter | no |
| Sensor specification | Sony ICX098BL |
| Shutter | Global |
| Format | 1/4 " |
| Resolution | H: 640 pixel, V: 480 pixel |
| Pixel size | H: 5.6 µm, V: 5.6 µm |
| Lens mount | C/CS |

INTERFACE (ELECTRICAL)

| | |
|---------------------|------------------------|
| Interface | USB |
| Supply voltage | 4.5 VDC to 5.5 VDC |
| Current consumption | approx 500 mA at 5 VDC |

INTERFACE (MECHANICAL)

| | |
|------------|----------------------------------|
| Dimensions | H: 50.6 mm, W: 50.6 mm, L: 56 mm |
| Mass | 265 g |

ADJUSTMENTS (MANUAL)

| | |
|---------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |

ADJUSTMENTS (AUTOMATIC)

| | |
|---------|--------------------|
| Shutter | 1/10,000 s to 30 s |
| Gain | 0 dB to 36 dB |
| Offset | 0 to 511 |

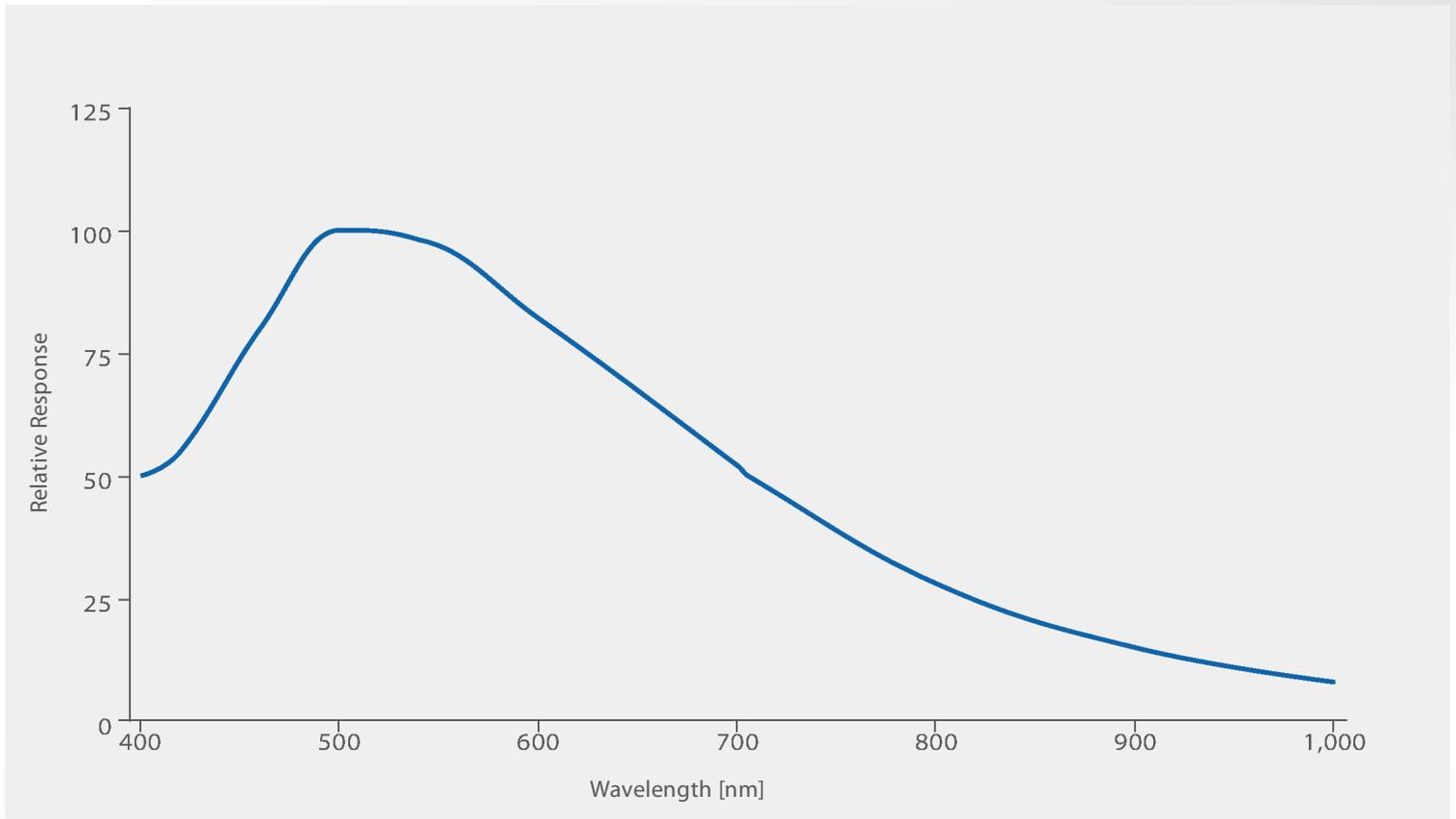
ENVIRONMENTAL

| | |
|-------------------------|-----------------------------|
| Temperature (operation) | -5 °C to 45 °C |
| Temperature (storage) | -20 °C to 60 °C |
| Humidity (operation) | 20 % to 80 % non-condensing |
| Humidity (storage) | 20 % to 95 % non-condensing |

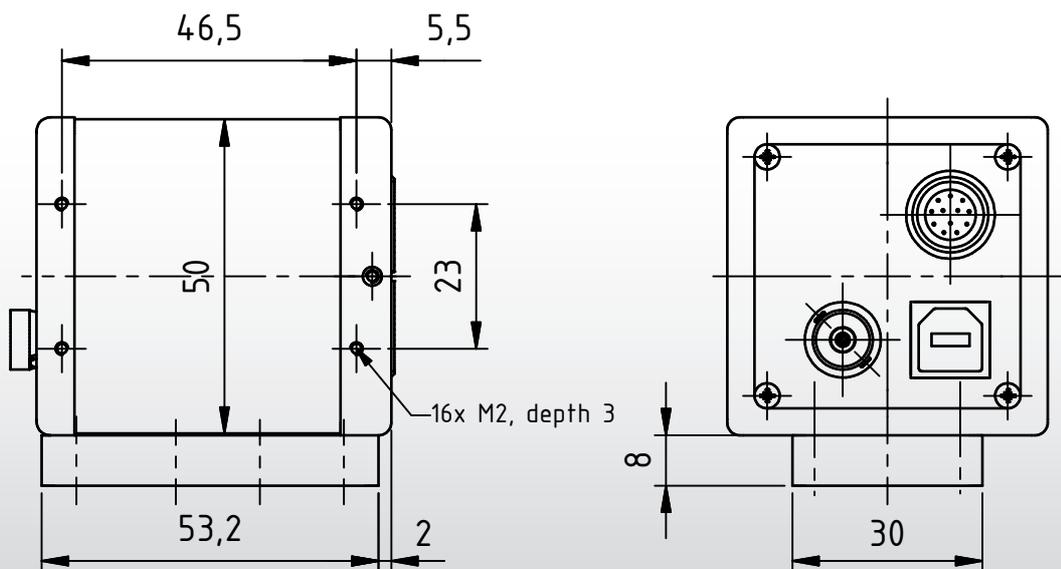
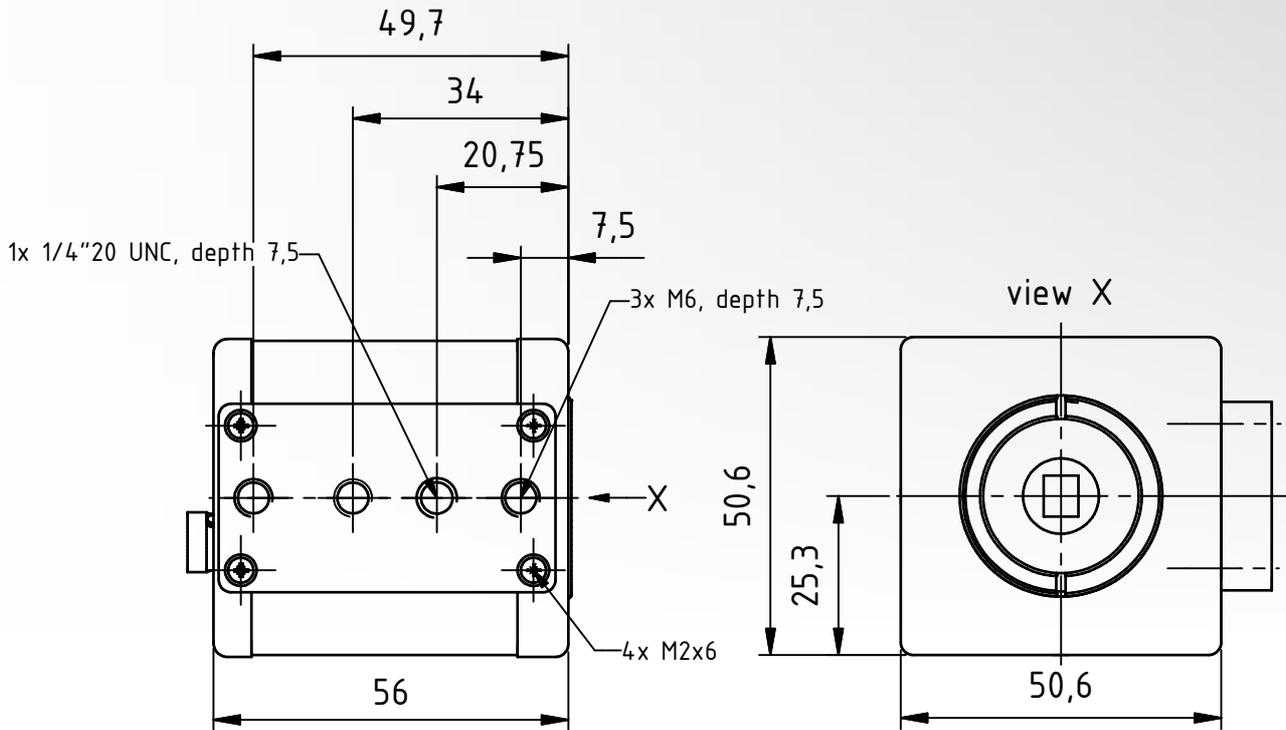
Subject to change

Sony ICX098BL Spectral Response Curve

CCD Sensor in DMK21BU04.H



DMK 21BU04.H Dimensional Diagram



Dimensions: mm
 Tolerances: DIN ISO 2768m

