



mini1MGE-CM2HG

Mini GigE

High-Speed Recording

The "mini" series are high-speed CMOS cameras with built-in battery and integrated image memory. With its small dimensions, the "mini" is particularly suitable for applications with very limited space. In its internal image memory, it can save high-speed video sequences of up to 6.48 seconds without being connected to a computer. The stored recordings are accessed via a GigE interface.

Technical Highlights:

- extremely small dimensions
- integrated power supply
- records high-speed videos without connected computer

SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	506 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA 1300-2
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	17.92 x 14.34 mm
Optical diagonal	22.95 mm
Sensor format	4/3 "
Pixel size (h x v)	14 x 14 µm

FRAME RATES

1280 x 1024	506 fps
1280 x 720	718 fps
1280 x 512	1008 fps
640 x 480	1869 fps
512 x 512	2032 fps
320 x 240	5672 fps
128 x 100	18610 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	2000 MB SDRAM
Recording time	3.24 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	63 x 63 x 64.5 mm
Weight	280 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

I/O-INTERFACES

Input OPTO	2 x
Power supply	10.5 to 30 V (DC)
Power consumption	7.5 W (dep. on operating mode)

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

Tel: (416) 674-2804
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mini1MGE-CM2

Mini GigE

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Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	2000 MB SDRAM
Recording time	3.24 s

FEATURE SET

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mini1MGE-CM4

Mini GigE

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Frame rate (max.)	506 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA 1300-2
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	17.92 x 14.34 mm
Optical diagonal	22.95 mm
Sensor format	4/3 "
Pixel size (h x v)	14 x 14 µm

FRAME RATES

1280 x 1024	506 fps
1280 x 720	718 fps
1280 x 512	1008 fps
640 x 480	1869 fps
512 x 512	2032 fps
320 x 240	5672 fps
128 x 100	18610 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	6.48 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	63 x 63 x 70.2 mm
Weight	280 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

I/O-INTERFACES

Input OPTO	2 x
Power supply	10.5 to 30 V (DC)
Power consumption	7.5 W (dep. on operating mode)

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mini1MGE-CM4HG

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Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



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Sensor type	Area CMOS
Shutter type	global shutter
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Sensor format	4/3 "
Pixel size (h x v)	14 x 14 µm

FRAME RATES

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128 x 100	18610 fps

CAMERA

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Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	6.48 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	63 x 63 x 70.2 mm
Weight	280 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

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Power consumption	7.5 W (dep. on operating mode)

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mini1MGE-FGM2

Mini GigE

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Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



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Sensor format	4/3 "
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128 x 100	18610 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	2000 MB SDRAM
Recording time	3.24 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	FG-Mount
Dimensions (w x h x d)	63 x 63 x 92.1 mm
Weight	330 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

I/O-INTERFACES

Input OPTO	2 x
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Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	17.92 x 14.34 mm
Optical diagonal	22.95 mm
Sensor format	4/3 "
Pixel size (h x v)	14 x 14 µm

FRAME RATES

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mini1MGE-FGM4

Mini GigE

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Interface	GigE Vision

PINOUT MATING CONNECTOR



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Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	17.92 x 14.34 mm
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CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	6.48 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	FG-Mount
Dimensions (w x h x d)	63 x 63 x 98.7 mm
Weight	330 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
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mini2MGE-CM2

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SPECIFICATIONS

Resolution [MP]	3 MP
Resolution (h x v)	1696 x 1710 px
Frame rate (max.)	525 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA3000
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	13.57 x 13.68 mm
Optical diagonal	19.27 mm
Sensor format	1 "
Pixel size (h x v)	8 x 8 µm

FRAME RATES

1696 x 1710	525 fps
1280 x 1024	1155 fps
1280 x 720	1647 fps
1024 x 1024	1410 fps
640 x 480	4467 fps
512 x 512	5016 fps
320 x 240	14776 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	2000 MB SDRAM
Recording time	1.41 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	63 x 63 x 65.1 mm
Weight	280 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
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CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	2.82 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	C-Mount
Dimensions (w x h x d)	63 x 63 x 71.7 mm
Weight	280 g
Ambient temperature	-10 to 45 °C
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Shock / Vibration proof	100 g /10 grms
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Power consumption	7.5 W (dep. on operating mode)

For more information please contact:



BOCK OPTRONICS INC.
14 Steinway Blvd., Unit 7
Toronto, Ontario M9W 6M6

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mini2MGE-FGM2

Mini GigE

High-Speed Recording

The "mini" series are high-speed CMOS cameras with built-in battery and integrated image memory. With its small dimensions, the "mini" is particularly suitable for applications with very limited space. In its internal image memory, it can save high-speed video sequences of up to 6.48 seconds without being connected to a computer. The stored recordings are accessed via a GigE interface.

Technical Highlights:

- extremely small dimensions
- integrated power supply
- records high-speed videos without connected computer

SPECIFICATIONS

Resolution [MP]	3 MP
Resolution (h x v)	1696 x 1710 px
Frame rate (max.)	525 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA3000
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	13.57 x 13.68 mm
Optical diagonal	19.27 mm
Sensor format	1 "
Pixel size (h x v)	8 x 8 µm

FRAME RATES

1696 x 1710	525 fps
1280 x 1024	1155 fps
1280 x 720	1647 fps
1024 x 1024	1410 fps
640 x 480	4467 fps
512 x 512	5016 fps
320 x 240	14776 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	2000 MB SDRAM
Recording time	1.41 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	FG-Mount
Dimensions (w x h x d)	63 x 63 x 93.6 mm
Weight	330 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

I/O-INTERFACES

Input OPTO	2 x
Power supply	10.5 to 30 V (DC)
Power consumption	7.5 W (dep. on operating mode)

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mini2MGE-FGM4HG

Mini GigE

High-Speed Recording

The "mini" series are high-speed CMOS cameras with built-in battery and integrated image memory. With its small dimensions, the "mini" is particularly suitable for applications with very limited space. In its internal image memory, it can save high-speed video sequences of up to 6.48 seconds without being connected to a computer. The stored recordings are accessed via a GigE interface.

Technical Highlights:

- extremely small dimensions
- integrated power supply
- records high-speed videos without connected computer

SPECIFICATIONS

Resolution [MP]	3 MP
Resolution (h x v)	1696 x 1710 px
Frame rate (max.)	525 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA3000
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	13.57 x 13.68 mm
Optical diagonal	19.27 mm
Sensor format	1 "
Pixel size (h x v)	8 x 8 µm

FRAME RATES

1696 x 1710	525 fps
1280 x 1024	1155 fps
1280 x 720	1647 fps
1024 x 1024	1410 fps
640 x 480	4467 fps
512 x 512	5016 fps
320 x 240	14776 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	2.82 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	FG-Mount
Dimensions (w x h x d)	63 x 63 x 100.2 mm
Weight	330 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

I/O-INTERFACES

Input OPTO	2 x
Power supply	10.5 to 30 V (DC)
Power consumption	7.5 W (dep. on operating mode)

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mini2MGE-FGM4

Mini GigE

High-Speed Recording

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Technical Highlights:

- extremely small dimensions
- integrated power supply
- records high-speed videos without connected computer

SPECIFICATIONS

Resolution [MP]	3 MP
Resolution (h x v)	1696 x 1710 px
Frame rate (max.)	525 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA3000
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	13.57 x 13.68 mm
Optical diagonal	19.27 mm
Sensor format	1 "
Pixel size (h x v)	8 x 8 µm

FRAME RATES

1696 x 1710	525 fps
1280 x 1024	1155 fps
1280 x 720	1647 fps
1024 x 1024	1410 fps
640 x 480	4467 fps
512 x 512	5016 fps
320 x 240	14776 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	2.82 s

FEATURE SET

AOI	yes
Shading correction	yes
Defect pixel correction	yes

HOUSING

Lens mount	FG-Mount
Dimensions (w x h x d)	63 x 63 x 100.2 mm
Weight	330 g
Ambient temperature	-10 to 45 °C
Ambient humidity	10 to 90 % (non-condensing)
Shock / Vibration proof	100 g /10 grms
Protection class	IP30

I/O-INTERFACES

Input OPTO	2 x
Power supply	10.5 to 30 V (DC)
Power consumption	7.5 W (dep. on operating mode)

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miniI2MGE-FGM2HG

Mini GigE

High-Speed Recording

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Technical Highlights:

- extremely small dimensions
- integrated power supply
- records high-speed videos without connected computer

SPECIFICATIONS

Resolution [MP]	3 MP
Resolution (h x v)	1696 x 1710 px
Frame rate (max.)	525 fps
Chroma	mono
Interface	GigE Vision

PINOUT MATING CONNECTOR



SENSOR

Sensor	LUPA3000
Manufacturer	OnSemi
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	13.57 x 13.68 mm
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1280 x 720	1647 fps
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640 x 480	4467 fps
512 x 512	5016 fps
320 x 240	14776 fps

CAMERA

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	2 µs
Exposure time (max)	1 sec
Pixel format / max	mono8 / 8 bit
Internal memory	2000 MB SDRAM
Recording time	1.41 s

FEATURE SET

AOI	yes
Shading correction	yes
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HOUSING

Lens mount	FG-Mount
Dimensions (w x h x d)	63 x 63 x 93.6 mm
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