



# Cube2CGE-CM4

Cube GigE

## High-Speed Recording

The CUBE series are high-speed CMOS cameras with high resolution and an internal image memory. An integrated NiMH battery enables high-speed recordings without an external power source. Depending on the model and memory capacity, videos of several seconds up to several hours can be stored in the camera. Depending on the model and memory capacity, videos of several seconds up to several hours can easily be stored and accessed via a GigE interface. The robust HG version is particularly resistant to vibrations and shocks.

### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	502 fps
Chroma	color

#### PINOUT MATING CONNECTOR

Interface	GigE Vision
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**SENSOR**

Sensor	MV-13
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	502 fps
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**CAMERA**

Trigger modes	Manual, External analog Voltage, External TTL, Acc
Exposure time (min)	3 µs
Exposure time (max)	1 sec
Pixel format / max	bayer8 / 8 bit
Internal memory	4000 MB SDRAM
Recording time	6.53 s

**FEATURE SET**

AOI	yes
Shading correction	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	69 x 93 x 110.8 mm
Weight	1030 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



For more information please contact:



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# Cube4MGE-CM4

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	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)	69 x 93 x 92 mm
Weight	910 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube4MGE-CM4HG

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	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)	69 x 93 x 92 mm
Weight	910 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube4MGE-CM8

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	8000 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)	69 x 93 x 92 mm
Weight	910 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube4MGE-CM8HG

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	8000 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)	69 x 93 x 92 mm
Weight	910 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube4MGE-FGM4

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	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)	69 x 93 x 120 mm
Weight	960 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube4MGE-FGM4HG

Cube GigE

## High-Speed Recording

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- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	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)	69 x 93 x 120 mm
Weight	960 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube4MGE-FGM8

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	8000 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)	69 x 93 x 120 mm
Weight	960 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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Cube GigE

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	1010 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**SENSOR**

Sensor	MV-13HS
Manufacturer	Micron
Sensor type	Area CMOS
Shutter type	global shutter
Sensor size (h x v)	15.36 x 12.29 mm
Optical diagonal	19.67 mm
Sensor format	1 "
Pixel size (h x v)	12 x 12 µm

**FRAME RATES**

1280 x 1024	1010 fps
1280 x 512	2018 fps
1280 x 204	5050 fps
1280 x 146	7039 fps
1280 x 102	10051 fps
1280 x 49	20326 fps
1280 x 18	50470 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	8000 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)	69 x 93 x 120 mm
Weight	960 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



AOI	yes
Shading correction	yes
Defect pixel correction	yes

**HOUSING**

Lens mount	FG-Mount
Dimensions (w x h x d)	69 x 93 x 120 mm
Weight	960 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)

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# Cube6MGE-CM8

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	506 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**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	719 fps
1280 x 512	1009 fps
640 x 480	1870 fps
512 x 512	2033 fps
320 x 240	5673 fps
128 x 100	18612 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	8000 MB SDRAM
Recording time	12.95 s

**FEATURE SET**

AOI	yes
Shading correction	yes
Defect pixel correction	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	69 x 93 x 90.5 mm
Weight	910 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



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# Cube6MGE-CM8HG

Cube GigE

## High-Speed Recording

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### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	506 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**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	719 fps
1280 x 512	1009 fps
640 x 480	1870 fps
512 x 512	2033 fps
320 x 240	5673 fps
128 x 100	18612 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	8000 MB SDRAM
Recording time	12.95 s

**FEATURE SET**

AOI	yes
Shading correction	yes
Defect pixel correction	yes

**HOUSING**

Lens mount	C-Mount
Dimensions (w x h x d)	69 x 93 x 90.5 mm
Weight	910 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	4 x
Input Analog	1 x
Power supply	10.5 to 30 V (DC)
Power consumption	15 W (dep. on operating mode)



For more information please contact:

**BOCK OPTRONICS INC.**

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[www.bockoptronics.ca](http://www.bockoptronics.ca)



# Cube6MGE-FGM8

Cube GigE

## High-Speed Recording

The CUBE series are high-speed CMOS cameras with high resolution and an internal image memory. An integrated NiMH battery enables high-speed recordings without an external power source. Depending on the model and memory capacity, videos of several seconds up to several hours can be stored in the camera. Depending on the model and memory capacity, videos of several seconds up to several hours can easily be stored and accessed via a GigE interface. The robust HG version is particularly resistant to vibrations and shocks.

### Technical Highlights:

- Internal image memory
- no external power supply needed
- up to several hours of videos
- reacts to events through trigger signal
- Burst mode

#### SPECIFICATIONS

Resolution [MP]	1.3 MP
Resolution (h x v)	1280 x 1024 px
Frame rate (max.)	506 fps

#### PINOUT MATING CONNECTOR

Chroma	mono
Interface	GigE Vision

**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 "
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Pixel format / max	mono8 / 8 bit
Internal memory	8000 MB SDRAM
Recording time	12.95 s

**FEATURE SET**

AOI	yes
Shading correction	yes
Defect pixel correction	yes

**HOUSING**

Lens mount	FG-Mount
Dimensions (w x h x d)	69 x 93 x 119.2 mm
Weight	960 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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# Cube6MGE-FGM8HG

Cube GigE

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