

M&Inext

QDCAM

User Manual

BOX-Camera

Model number : ME-BXC-CM100



Dec 16, 2025

1st Edition

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Revision history

Edition	FirmWare	Date	Revision details
1.0		Feb/20/2020	First edition
1.0		May/12/2020	Insert micro four thirds standard descriptions, Logo, and Japanese patent No. on page 9. Corrected standard descriptions on page 27 and 28.

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I. Introduction

This chapter describes the matters that need to be noted before the setup and the use of QDCAM

I-1. Notes when using this product

This section describes notes when using this product. If you have any questions about how to use this product and the content of this manual please contact M&Inext Customer Service.

M&Inext, Inc. Customer support
TEL : 045-415-0203 FAX : 045-415-0255
(Monday–Friday, 10:00–12:00, 13:00–17:00;
excluding company-designated holidays)
Mail : contact@minext.jp

Do not damage the power cord

If the power cord is damaged, it can cause the fire and/or the electric shock. Do not place anything heavy nor place the power cord close to any heating equipment. Also, do not bend nor process the power cord. When pulling out the AC adapter, hold the plug-in part. If there is any damage in the power cord, please ask our customer support at the store you purchased for a replacement.

Do not disassemble

Opening the case or trying to remodel the product can cause the fire and/or the electric shock. Please ask our customer support or the store you purchased the product for an internal inspection and a repair

Do not use the product in dusty and humid areas.

It can lead to the short circuit and the heat generation and cause the fire and electric shock.

Do not place water or foreign matter **QDCAM**

inside

If any water or foreign matter gets inside, it can cause the fire and the electric shock. Should any water or foreign matter gets inside, turn off the power, plug out the power cord, and contact the store you purchased the product or our customer support.

Do not use the product during the thunderstorm.

Do not touch the body of the product and the plug. It can cause the electric shock.

Do not touch AC adapter with wet hands.

Do not plug in or pull out the AC adapter with wet hands. It can cause the electric shock.

Do not place the product in the direct sunlight.

Do not place the product in the sunlight or close to any heating equipment. It can cause the fire or damage the product.

Do not use the product when it is smoking.

Do not use the product when it is smoking or when it is giving off strange smell. It can cause the fire or damage the product. When abnormality occurs, turn off the power, plug out the power cord, make sure that it stops smoking, and then contact the store you purchased the product or our customer support.

 Do not use the product in the damaged condition.

When the product is dropped or when there is any damage in the cover, discontinue the use of the product. It can cause the fire or damage the product. When the product is damaged, turn off the power, plug out the power cord, and then contact the store you purchased the product or our customer support.

 Do not place the product in the unstable location.

Do not place the product on the unstable stand or tilted location. The product can fall and hurt somebody around or damage the product itself. Sort the power cord and AV cable to place. It can cause the injury and the damage to the product if you get tripped on the cord

 Turn off the power when you clean the product.

When connecting or cleaning the product, plug out the power cord. If not, it can cause the electric shock or damage the product. When cleaning the product, do not use any volatile solvents such as thinner. When the product is not in use for a long period of time, leave AC adapter off the plug.

 Do not cover the product with fabric.

Do not use the product in the poorly ventilated area or in the covered condition. When the ventilation opening is blocked, heat stays inside, and it can cause the fire or damage the product.

■ **Notes**

Regardless of the presence or absence of negligence in use, our company will not be responsible for any claim against consequential damage and special, incidental, or including lost profit that is generated by operating this product. We will not guarantee the product when the product is not used for the originally intended purposes and/or in the recommended environment.

■ **Handling Policy of personal information**

As a general rule, our company will not use customers' personal information for any purposes other than the ones listed below:

- To support the use of our products.
- To conduct surveys of the usage of our products, for product improvement, for product development, and for improvement of our service.

* The result of the survey may be provided to our business partner as a reference without including the customers' personal information.

- To verify the legitimacy and the validity of the bank accounts and the credit cards.
- To provide the information on the updated version of the software and the new products.
- To send out prizes to customers who won prizes in the sweepstakes.

With customers' permission, the personal Information might be used for the other purposes.

We manage the provided information properly and will not disclose nor provide it

to the third party without customers' permission unless in special circumstances. Please contact us at <http://www.mediaedge.co.jp> if you have any questions concerning to our handling of your personal information.

■ The trademarks

- (1) MEDIAEDGE is a registered trademark for MEDIAEDGE Corporation.
- (2) The other product names, related similar names, and logos are their companies' trademark/registered trademarks.

■ Warning

■ Health Related issue

In rare cases, strong light and flashing from the computer monitor or TV screen might cause temporal epilepsy or loss of consciousness. Even though you have never experience such cases, it is possible that you have such genetic makeup.

Please consult your doctor before using the products if you or your relatives have such experience.

■ About Copyright

The data such as TV broadcast and video that captured the image and the voice that were produced by the other people, regardless of video or still image, shall not be used without permission except for your personal use. Also, there might be a case where copying is limited even for the purpose of personal enjoyment. Please note that our company will not be responsible for

the use of the captured data.

■ Federal Communication Commission FCC Notice

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Complies with Part 15 of the FCC Rules

Declaration of Conformity

According to FCC Part 15

Responsible Party Name:

MEDIAEDGE Corporation

Address:

5-1-14, Hamabe-dori, Chuo-ku, Kobe, Hyogo,
651-0083 Japan

Telephone: +81-78-265-1552

Declares that product Model:

ME-BXC-CM100

I-2. Before Use

■ Verify the package content

Check the QDCAM package for the following parts. We try our best on packaging; however, should there be any missing parts, please contact to your local distributor you purchased. If you need to contact us directly, please contact us by email.

M&Inext, Inc. Customer support

TEL : 045-415-0203 FAX : 045-415-0255

(Monday–Friday, 10:00–12:00, 13:00–17:00; excluding company-designated holidays)

Mail : contact@minext.jp

QDCAM Box-Camera enclosed items.

- Box-Camera (ME-BXC-CM100)
- Bodycap (For lens mount)
- User Manual (This document)
- Warranty Information for customers outside Japan

■ About our homepage

Updated information on our company and QDCAM is posted on our homepage (<https://qdcam.jp/>). Please access to our homepage to view our latest drivers, utilities, the product manual, and FAQ

I-3. Notes

■ Notation

- Please note that should there be any difference between the instructions on this manual and the actual method of operation, the latter will be regarded as a priority.
- Illustrations for the manual might differ from the actual devices.

■ Attention

- Without notice in the future, there can be some changes in the contents and the specification of this product.
- We do our best to check the contents of this product; however, should there be any questions, error, or omission of such notice, please contact our company.
- Analysis, reverse engineering, decompile, and disassembly of the software, the hardware, the manual, and the other attachment of this product are prohibited.

■ QDCAM Box Camera Handling Precautions

- Do not use or store the camera module in the dusty or humid places.
- Do not apply excessive force, vibration, or static electricity that could damage the camera. Handle the camera with care.
- Do not shoot direct images that are extremely bright (e.g., light source, sun, etc.). When extremely strong light source is shot, smear or blooming may occur. When the camera is not in use, please put the protection cap on.
- Follow the instructions in Chapter 4.1., “External Connector” for connecting the camera module. Improper connection may cause damages not only to the camera module but also to the connected devices.
- Confirm the mutual ground potential carefully and then connect the camera module to monitors or computers. AC leaks from the connected devices may cause damages or destroy the camera module.
- Do not apply excessive voltage. (Use only the specified voltage.) Unstable or improper power supply voltage may cause damages or malfunction of the camera assembly.
- Our warranty does not apply to damages or defects caused by irregular and/or abnormal use of the product.

II. About QDCAM

This chapter describes the overview and the features of each part of the QDCAM

II-1. Product Outline, Features, Usages

■ II-1-1. QDCAM Outline

This camera system is capable of 240fps high-speed shooting at 1920x1080 resolution and 60fps shooting at 3840x2160 resolution. The video output corresponds to the following format.

4K UHD(3840x2160)/60p,59.94p, 50p, 24p,23.98p

DCI 4K(4096x2160)/24p,23.98p

FullHD (1920x1080)/240p,239.8p,200p,60p,59.94p,50p,24p,23.98p,59.94i,50i

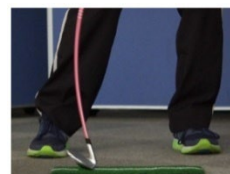
■ II-1-2. QDCAM Features

- **High-speed shooting: 1920x1080/239.8p, 200p**

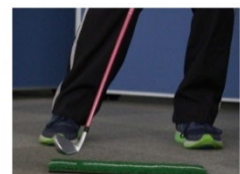
Continuous 4X high-speed video for smooth slow-motion replay or accurate sport analysis. Quad link of SDI can be connected to major slow-motion rec/player such as EVS, Avid, etc..

- **Global shutter CMOS image sensor**

No rolling shutter distortion.
Suitable for shooting moving objects.



Rolling Shutter



Global Shutter

- **Micro four thirds lens mount**

High picture quality lenses with various focal lengths can be used. Also, remote controls of Iris, Focus and Zoom are available.

- **High resolution shooting: 4096x2160/24p, 3840x2160/60p, 50p**

Use for 4K cinema production or UHD video production

- **Optical transmission system using SMPTE opt-camera cable**

This allows to use for sport broadcasting in a stadium or an arena.

- **A new synchronization system**

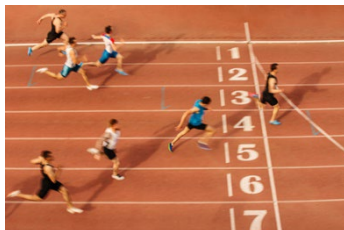
This allows to synchronize exposure timing for multiple cameras. Suitable for multi-angle view system or sport judgement system. (Patent Pending)

- **Fan-less quiet camera**

■ II-1-3. Usages

Slow-Motion Replay

Quad link of 3G-SDI can interface 4x high speed of 1080p signal to slow-motion recorder-player.



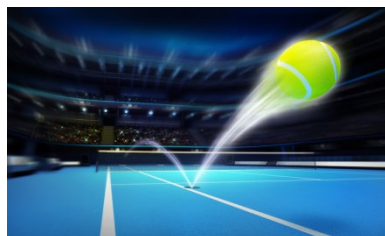
Multi-AngleView

Affordable price of camera & lens allows to install many cameras for multi-angle shooting.



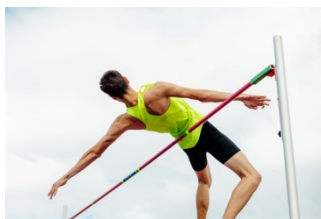
Image Analysis for Sport Judgement System

High speed & high resolution image capturing and exposure synchronization system allow accurate calculations for multi-camera image processing.



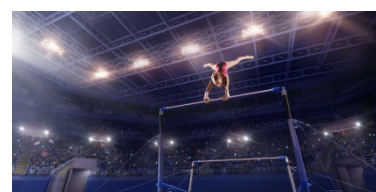
Wide Angle & Closeup Shot for Sports Broadcast

To use wide angle lens realizes exciting picture because the camera can be put near the player.



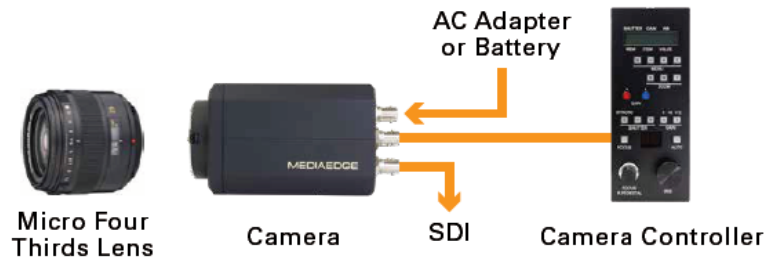
Video Capture Tool for Sports Coaching

High speed & high resolution image capturing and exposure synchronization system allow accurate calculations for sports analysis. Also, the player's performance can be checked through slow-motion replay and team coach can give the players his/her advises.



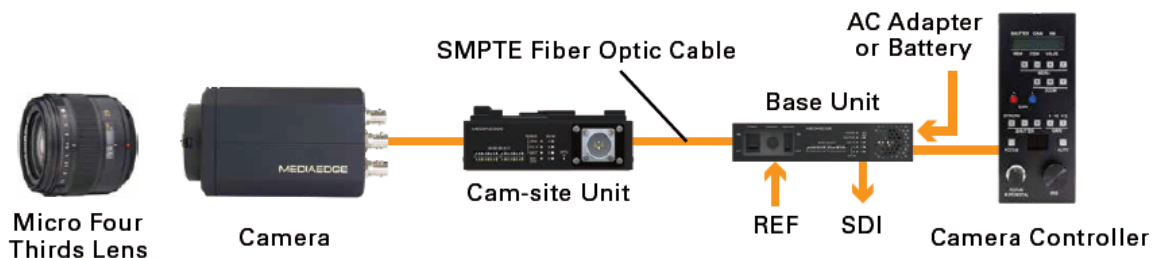
■ II-1-4. How to configure a system

■ Example1: Simple system using metallic cables



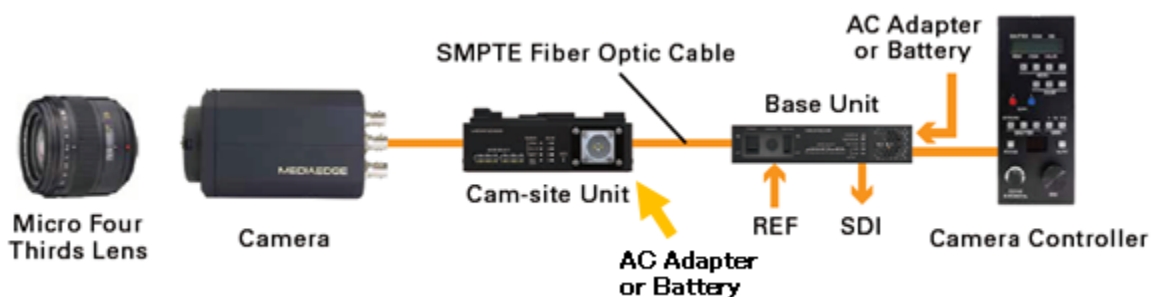
If you want to connect the SDI video output to a relatively nearby recorder, switcher, server, or other video system, connect it directly from the camera with a coaxial cable. The camera controller also connects directly to the camera using a communication cable.

■ Example2: Medium distance transmission system for stadium or arena operation



The camera image is transmitted to a remote location using an optical camera cable. The camera controller is also installed in a remote location and remotely controlled. The system supplies power from the base unit to the camsite unit and camera, so there is no need to provide power on the camera side. The optical camera cable can be up to 500 meters.

■ Example3: Long distance transmission system for such as golf operation

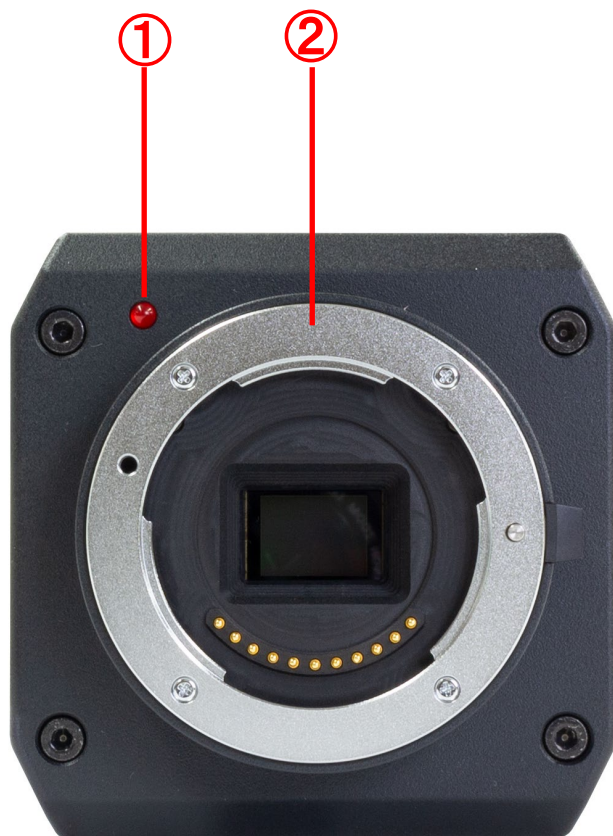


The camera image is transmitted to a remote location using an optical camera cable. The camera controller is also installed in a remote location and remotely controlled. The system, which supplies power to the camsite unit, can extend the optical camera cable up to 2 km.

II-2. About QDCAM BOX Camera

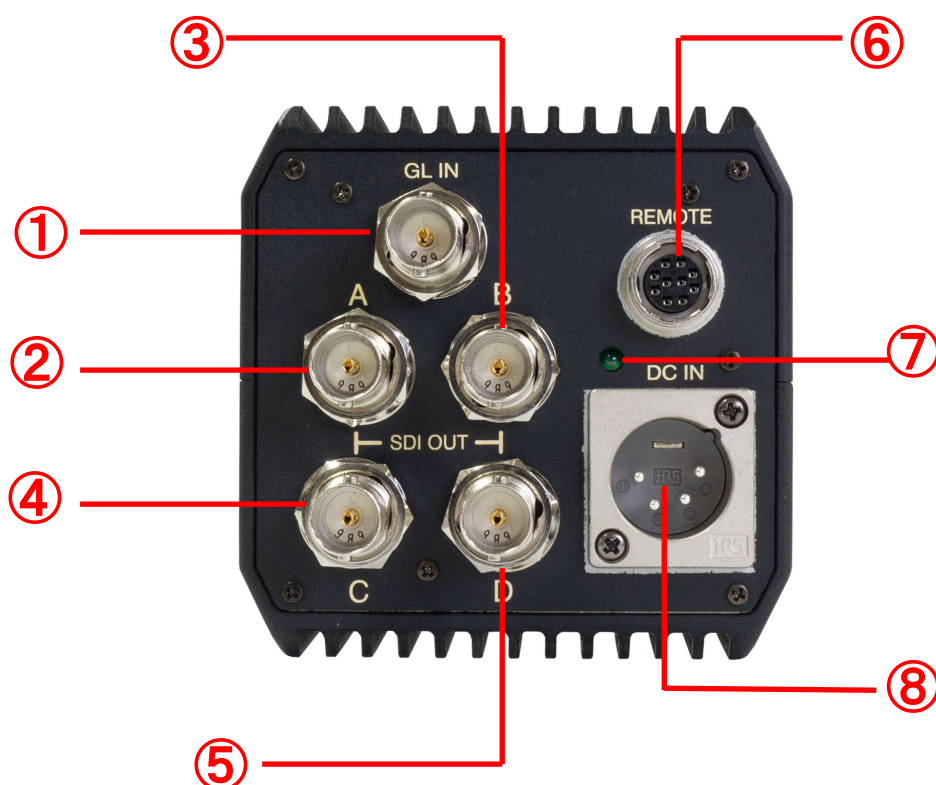
■ II-2-1. Part Names and Function

● Front view



①	TALLY indicator (Red)	The red LED lights up when a signal called Tarry ON is transmitted.
②	Micro four thirds lens mount	This is a lens mount for micro four thirds system.

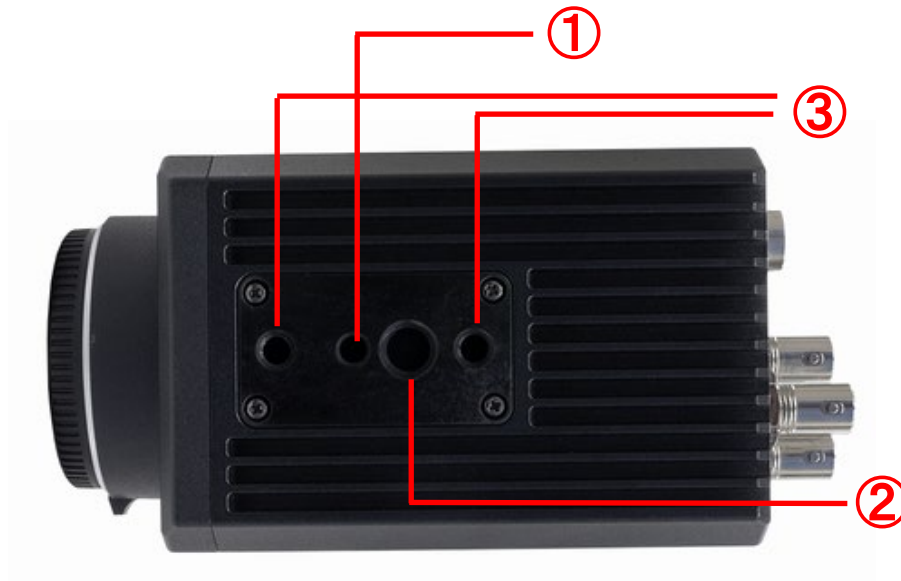
●Rear view



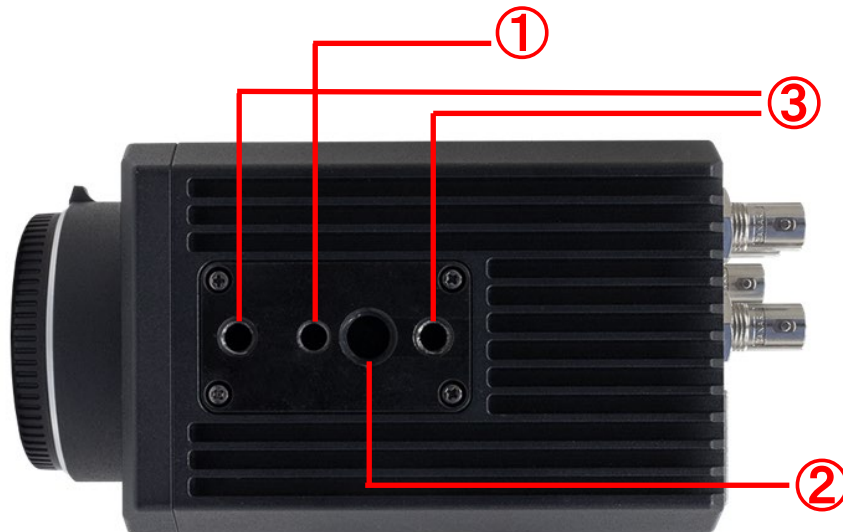
①	GL IN (GenLock signal input terminal)	Input a Black Burst or tri-Level SYNC signal to synchronize between multiple cameras. Do not connect cables and input signals when synchronization is not required.
②	SDI OUT-A (3G/SDI output terminal A)	When a single-link SDI output, a 3G-SDI or 1.5G-SDI signal is output. When a Quad-link SDI output, a Link-A (first link) 3G-SDI or 1.5G-SDI signal is output.
③	SDI OUT-B (3G/SDI output terminal B)	When a single-link SDI output, a 3G-SDI or 1.5G-SDI signal is output. When a Quad-link SDI output, a Link-B (second link) 3G-SDI or 1.5G-SDI signal is output.
④	SDI OUT-C (3G/SDI output terminal C)	When a single-link SDI output, a 3G-SDI or 1.5G-SDI signal is output. When a Quad-link SDI output, a Link-C (third link) 3G-SDI or 1.5G-SDI signal is output.
⑤	SDI OUT-D (3G/SDI output terminal D)	When a single-link SDI output, a 3G-SDI or 1.5G-SDI signal is output. When a Quad-link SDI output, a Link-D (fourth link) 3G-SDI or 1.5G-SDI signal is output.
⑥	REMOTE (Remoto connection terminal)	Via a communication cable connect to the camera controller or camsite unit of transmission device.

⑦	<p>ILED (POWER indicator)</p>	<p>When the power is on, it emits green light.</p>
⑧	<p>DC IN (Power input connector)</p>	<p>Used for DC13.8V (11.8V to 16.8V) power inputs. Use an AC adapter or battery with a power supply capacity of 20W or more. Power input to this terminal is not required when powering from a camsite unit of transmission device via a communication cable.</p>

●Top view



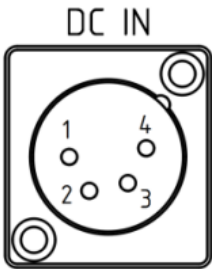
●Bottom view



①	Video boss hole	Diameter 5 depth 6mm
②	Fixed screw hole	UNC3/8-16 depth 10mm 3/8 inch screw hole
③	Fixed screw hole	UNC 1/4-20 depth 10mm 1/4inch screw hole

II-1. External Connector Specifications

■ II-1-1. Power Input Connector (XLR 4pin)

	Pin No.	Description
	1	GND
	2	N.C
	3	N.C
	4	DC +12V IN
	shell	GND (Camera)

※In case of power input from remote connection terminal is at the sametime, Power input connector has its priority.

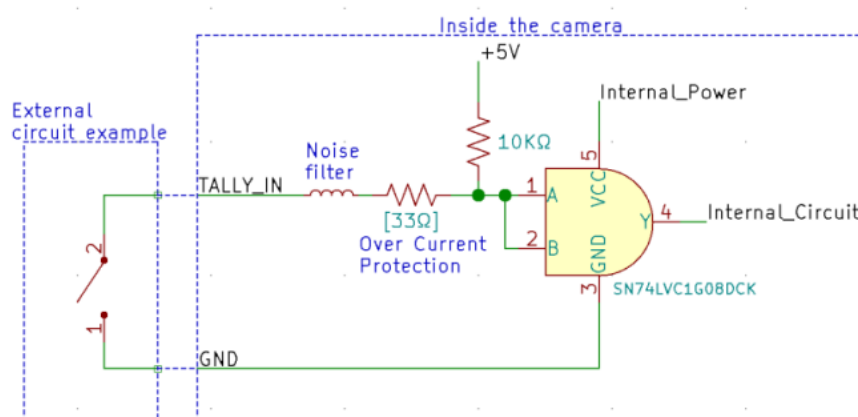
■ II-1-2. Remote connection terminal

Model name: HR10A-10R-10SB (HIROSE)

	Pin No.	Description
	1	RS-422 TXD+ (CAM DATA (H))
	2	RS-422 TXD- (CAM DATA (C))
	3	RS-422 TXD+ (CAM DATA (H))
	4	RS-422 TXD- (CAM DATA (C))
	5	GND
	6	POWER IN DC+12V
	7	
	8	TALLY IN
	9	DCOUT +12V(REMOTE)
	10	GND
	Shell	GND (Camera)

※In case of power input from Power input connectors is at the sametime, Power input connector has its priority.

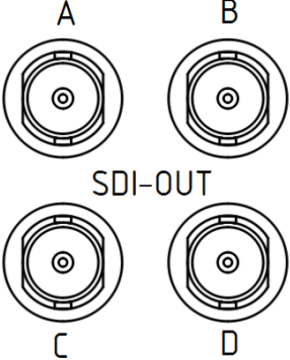
TALLY IN input circuit



The TALLY indicator lights up by connecting the TALLY IN of the remote connection terminal to the GND.

■ II-1-3. Video Output Connector (BNC)

Model name: BCJ – FPC02 (CANARE)

	Pin No.	Description
	A	3 G/HD-SDI output CH A
	B	3 G/HD-SDI output CH B
	C	3 G/HD-SDI output CH C
	D	3 G/HD-SDI output CH D
	Shell	GND (Camera)

Please connect according to the image format and frame rate.

Image format	Frame rate	BNC connection CH
4096 x 2160	24p, 23.98p	HD-SDI x 4ch (CH A,B,C,D)
3840 x 2160	60p, 59.94p, 50p,	3G-SDI x 4ch (CH A,B,C,D)
3840 x 2160	24p, 23.98p	HD-SDI x 4ch (CH A,B,C,D)
1920x1080	240p, 239.9p, 200p	3G-SDI x 4ch (CH A,B,C,D)
1920x1080	60p, 59.94p,50p	3G-SDI x 1ch
1920x1080	24p, 23.98p, 59.94i,50i	HD-SDI x 1ch

■ II-1-4. Genlock Input Connector (BNC)

Model name: BCJ – FPC02 (CANARE)

	Pin No.	Description
	Center	Genlock input
	Shell	GND (Camera)

II-2. Functions

■ II-2-1. Genlock Input Connector (BNC)

Genlock function is available by inputting analog external sync signal (Black Burst or Tri-Level SYNC) into Genlock input connector (BNC).

Corresponding Genlock REF signals will be different depending on the camera output video format and its frame rate. Please refer to the chart below for the details.

CAMERA FORMAT (frame rate)	Genlock Input				
240p/60p/60i			1080i60	720p60	1080p30
239.8p/59.9p/59.9i	NTSC		1080i59.9	720p59.9	1080p29.9
50p/50i		PAL	1080i50	720p50	1080p25
24p					1080p24
23.9p					1080p23.9

Input Black Burst signals for NTSC/PAL signals. Input Tri-Level SYNC signals for other than NTSC/PAL signals. Genlock input connector (BNC) is terminated with 75Ω. When an external signal specified the above is input, the camera will be in external sync mode automatically. When no external sync. signal is input, the camera will operate in internal sync mode. Right after external sync. signals are input, images may be disturbed but this is not malfunction.

■ II-2-2. Change camera setting by RS-422 communication

For specific camera settings change, refer to the user's manual for the camera controller ME-BXC-RC100.

● Output video format switching

- DCI24Q 4096x2160/24p
- DCI23Q 4096x2160/23.98p
- UHD60Q 3840x2160/60p
- UHD59Q 3840x2160/59.94p
- UHD50Q 3840x2160/50p
- UHD24Q 3840x2160/24p
- UHD23Q 3840x2160/23.98p
- HD240Q 1920x1080/240p

•HD239Q	1920x1080/239.8p
•HD200Q	1920x1080/200p
•HD60S	1920x1080/60p
•HD59S	1920x1080/59.94p
•HD50S	1920x1080/50p
•HD24S	1920x1080/24p
•HD23S	1920x1080/23.98p
•HD59IS	1920x1080/59.94i
•HD50IS	1920x1080/50i

● High-speed shooting mode switching

- FULL At 240fps, 239.8fps, and 200fps, the imaging angle is the same as when it is received on the entire imaging surface. In this case, slight diagonal jagged may occur.
- CENT At 240fps, 239.8fps, and 200fps, the imaging is captured using center 1/4 pixels of the image sensor. (Center ROI)
In this case, the image quality is good, but the focal length is twice as telephoto.

● Shutter mode Switching

- OFF Turn off the electronic shutter and set the shutter opening angle to 360°.
- STEP You can select discrete electronic shutter speed.
- SYNCHRO You can select a finer shutter speed than STEP.

● Step shutter

You can select from the following shutter speeds:

- 240fps, 239.8fps, 200fps
1/250, 1/400, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/8000, 1/12000
- 60fps, 59.94fps, 50fps, 59.94i, 50i
1/100, 1/120, 1/125, 1/200, 1/250, 1/400, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/8000, 1/12000
- 24fps, 23.98fps
1/50, 1/60, 1/100, 1/120, 1/125, 1/200, 1/250, 1/400, 1/500, 1/750, 1/1000, 1/1500, 1/2000, 1/3000, 1/4000, 1/6000, 1/8000, 1/12000

- Synchronize shutter

The shutter speed from the following range can be selected

- | | |
|--------------------------------------|----------------|
| ・240fps, 239.8fps | 1/240.9~1/4096 |
| ・200fps | 1/204.8~1/4096 |
| ・60fps, 59.94fps, 50fps, 59.94i, 50i | 1/60.2~1/4096 |
| ・24fps, 23.98fps | 1/30.1~1/128 |

- Gain value adjustment

- Analog Gain 0dB, +6dB, +12dB
- Digital Gain 0dB~+24dB
- Minus Gain -6dB at this time, the dynamic range is 200%.

● White balance mode switching

- | | |
|---------|--|
| •MANUAL | Take a picture of white subject and adjust the white balance. |
| •AUTO | Automatically obtains white balance by camera signal processing. |
| •PRESET | With a preset white balance, color temperature between 2800K and 10000K can be selected. |

- Color gamut setting

- 709 BT.709 color gamut
- 2020 BT.2020 color gamut

- Black level adjustment

- | | |
|-------------------|--|
| • MASTER PEDESTAL | The black level of the luminance signal can be adjusted. |
| • R_PED | The black level of the RED signal can be adjusted. |
| • G_PED | The black level of the GREEN signal can be adjusted. |
| • B_PED | The black level of the BLUE signal can be adjusted. |

- RGB gain adjustment

- R_GAIN The gain of RED signal can be adjusted.
- G_GAIN The gain of GREEN signal can be adjusted.
- B_GAIN The gain of BLUE signal can be adjusted.

- 6-axis color correction

- | | |
|-----------|--|
| •MAGE_HUE | The hue of Magenta can be adjusted. |
| •MAGE_SAT | The saturation of Magenta can be adjusted. |
| •RED_HUE | The hue of Red can be adjusted. |
| •RED SAT | The saturation of Red can be adjusted. |

- YELW_HUE The hue of Yellow can be adjusted.
- YELW_SAT The saturation of Yellow can be adjusted.
- GREN_HUE The hue of Green can be adjusted.
- GREN_SAT The saturation of Green can be adjusted.
- CYAN_HUE The hue of Cyan can be adjusted.
- CYAN_SAT The saturation of Cyan can be adjusted.
- BLUE_HUE The hue of Blue can be adjusted.
- BLUE_SAT The saturation of Blue can be adjusted.

● Gamma setting

- BT709 BT.709 gamma curve. This gamma can be fine-tuned.
- HLG BT.2100 Hybrid Log Gamma.

● Knee mode setting

- MANU The knee point can be set manually.
- AUTO Automatically adjusts the knee point according to the brightness level of the video.

● Knee point setting

- OFF Set the knee processing off.
- 100 Set the knee point to 100%.
- 95 Set the knee point to 95%.
- 90 Set the knee point to 90%.
- 85 Set the knee point to 85%.
- 80 Set the knee point to 80%.
- 75 Set the knee point to 75%.

● Shutter speed mode switching

- OFF Turn off the electronic shutter and set the shutter opening angle to 360°.
- STEP The discrete shutter speed of up to 1/12000 seconds at the fastest can be choosed.
- SYNCHRO The shutter speed can be set finely up to 1/128 seconds for shooting at 24fps and 23.98fps, and up to 1/4096 seconds at the same time when shooting at other frame rates. It is used for measures such as screen scrolling and flickering, such as re-taking of PC screen.

● Flicker cancellation

- OFF Normal mode without flicker cancellation.
- 50Hz Suppress flickering during high-speed imaging under non-inverter-emitting fluorescent lamps and mercury lamps that flash with 50Hz AC power supply.
- 60Hz Suppress flickering during high-speed imaging under non-inverter-emitting fluorescent lamps and mercury lamps that flash with 60Hz AC power supply.

● Iris setting

- IRIS The aperture value of the lens can be changed.

● Auto iris setting

- AUTO IRIS Automatically adjusts the aperture value of the lens based on the brightness information on the screen.

● Focus setting

- FOCUS The focus position of the lens can be operated.

● Zoom setting

- ZOOM The zoom position of the lens can be operated. However, this feature is only available when a power zoom lens is attached.

● Edge enhancement

- DETAIL The edge enhancement circuit can be turned off and adjust the level of the edge enhancement.

● Noise reduction setting

- OFF Turn off the noise reduction circuit.
- ON Activates the noise reduction circuit.

● Color bar output

- OFF Camera video is output to external terminal.
- BAR Color bar video is output to external terminal.

● Scene memory

- SAVE_SCN Save camera settings information to Numbers 1, 2, or 3 of the scene memory.
- LOAD_SCN Load camera settings information from Numbers 1, 2, or 3 of the scene memory.

II-3. About lens installation

■ II-3-1. Installing the Micro Four Thirds lens

This camera has a micro four lens mount, so please use a Micro Four Thirds standard lens.

● Lens AF/MF Switching

Some Micro Four Thirds lenses have a switch that switches between AF (auto-focus) and MF (manual focus). In this case, setting to AF enables focus adjustment via communication line such as focus operation from the camera controller. When setting to MF, the focus can be adjusted by ring operation of the lens.

When a lens does not have an AF/MF switch, focus adjustment via communication line is always enabled.



● Iris settings for lens

Some Micro Four Thirds lenses have a ring for iris adjustment. When using this lens, set the iris adjustment ring to the "A" position when controlling iris from the camera controller. In other positions, iris cannot be adjusted via communication line, and iris can be adjusted only with the ring. If the Micro Four Thirds lens does not have a ring for iris adjustment, iris control via communication is always enabled.



■ II-3-2. About Lens focal length and angle of view

This camera uses a 1/1.1-inch type image sensor, so the angle of view is different compared to the Micro Four Thirds camera of the 4/3-inch type image sensor even with a micro four thirds lens with the same focal length. In 4x high-speed imaging, there are FULL (full screen imaging) mode and CENTER (center cutout imaging) mode, and in CENTER mode, it becomes the angle of view of the telephoto side further. The following shows the 35mm conversion ratio of the focal length due to the difference between the video format and the high-speed imaging mode, so please refer to the focal length of the lens when selecting it.

●DCI4K Video

- 4096x2160/24p, 4096x2160/23.98p
⇒ 35mm conversion ratio of focal length : x 2.9

●UHD4K Video

- 3840x2160/60p, 3840x2160/59.94p, 3840x2160/50p, 3840x2160/24p, 3840x2160/23.98p
⇒ 35mm conversion ratio of focal length : x 3.0

●FHD high-speed Video

- 1920x1080/240p, 1920x1080/239.8p, 1920x1080/200p FULL モード
⇒ 35mm conversion ratio of focal length : x 3.0
- 1920x1080/240p, 1920x1080/239.8p, 1920x1080/200p CENTER モード
⇒ 35mm conversion ratio of focal length : x 6.1

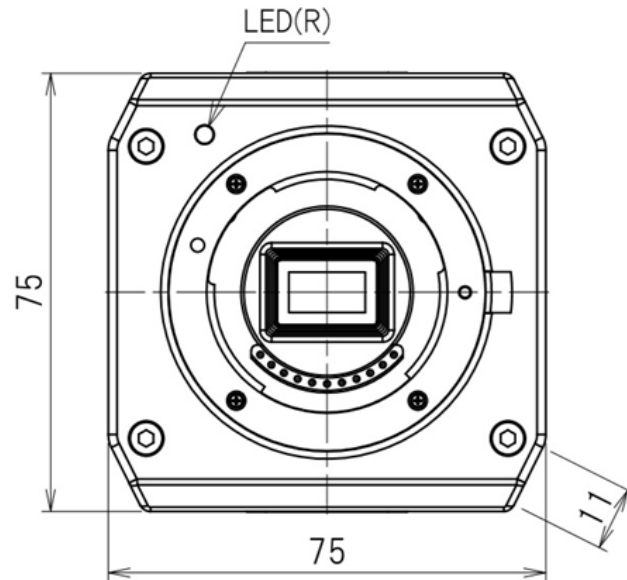
●FHD normal-speed Video

- 1920x1080/60p, 1920x1080/59.94p, 1920x1080/50p, 1920x1080/24p, 1920x1080/23.98p
⇒ 35mm conversion ratio of focal length : x 3.0
- 1920x1080/59.94i, 1920x1080/50i
⇒ 35mm conversion ratio of focal length : x 3.0

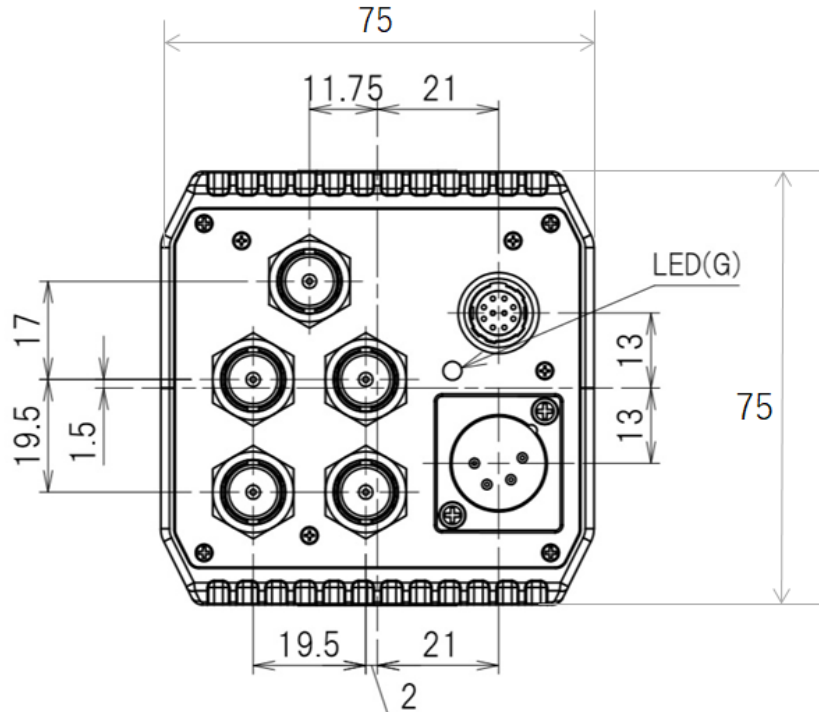
For example, when shooting in 1920x1080/59.94p video format or CENTER mode, the 15mm focal length of the Micro Four Thirds lens is approximately 92mm.

$$15\text{mm} \times 6.1 \div 92\text{mm}$$

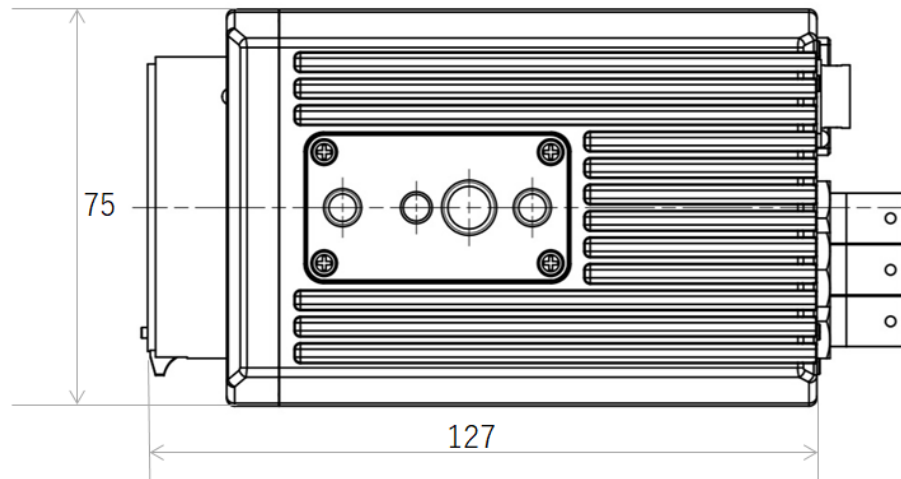
II-4. Dimensions



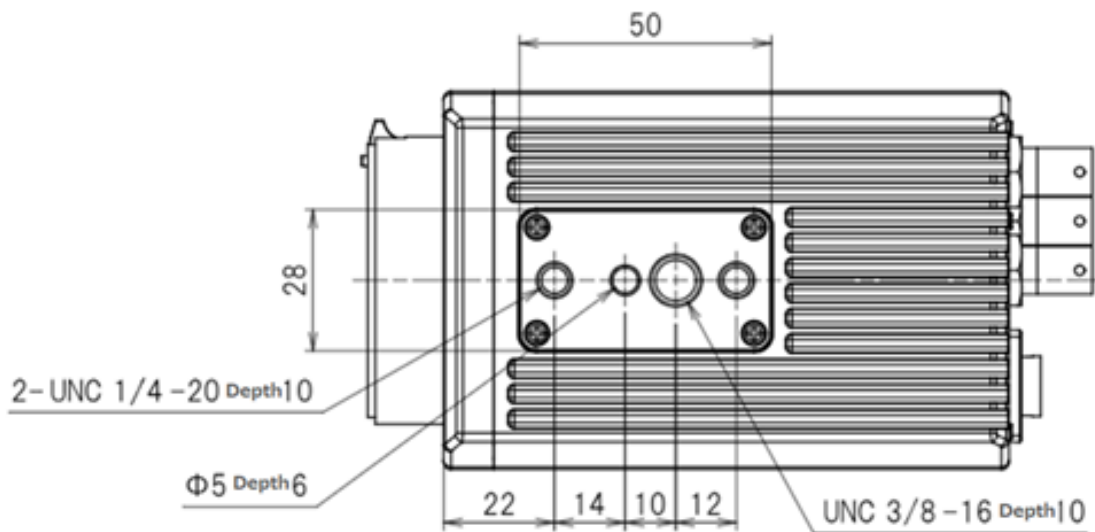
Front view



Rear view



Top view



bottom view

II-5. General Specifications

■ BOX Camera (ME-BXC-CM100)

Device type	1/1.1 type global shutter color CMOS sensor (8.8million pixcls)
Imaging method	Bayer array color filter single plate method
Lens mount	Micro Four Thirds System
Video output format	4096x2160/24p, 23.98p (quad 1.5G-SDI, SQD, Level A) 3840x2160/60p, 59.94p, 50p (quad 3G-SDI, SQD, Level A) 3840x2160/24p, 23.98p (quad 1.5G-SDI, SQD, Level A) 1920x1080/240p, 239.8p, 200p (quad 3G-SDI, Level A) 1920x1080/60p, 59.94p, 50p (3G-SDI, Level A) 1920x1080/24p, 23.98p (1.5G-SDI) 1920x1080/59.94i, 50i (1.5G-SDI)
GenLock input	Tri-level sync or Black burst
Operation Guaranteed Temperature	Temperature: -5°C ~ 45°C Humidity: 20 ~ 80%RH with no condensation.
Weight	690g
Dimensions	H:75mm W:75mm D:127mm (excluding protrusions)
Power requirements	DC 13.8V (DC 11.8V~16.8V)
Power consumption	10W (Conditions: DC+12V input, without lens)
Sensitivity	F10 @1920x1080/59.94p F11 @1920x1080/50p F7.5 @3840x2160/59.94p F8.0 @3840x2160/50p F3.6 @1920x1080/239.8p F4.0 @1920x1080/200p (3200K, 2000lx, Knee Off)
Safety/Quality standard	UL: Conform to UL Standard including materials and others.
	FCC: CFR 47 part15 subpart B Class A Digital Device This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

	<p>EC:</p> <p>EMC 2014/30/EU</p> <p>Emission: EN61000-6-4:2007+A1:2011</p> <p>Immunity: EN61000-6-2:2005</p> <p>RoHS 2011/65/EU +(EU)2015/863</p> <p>EN50581 (RoHS2)</p>
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