

8K HFR / 8K8K Switchable Camera AB-4852/AC-4851



The successor to the AB-4838/AC-4829-D, the new and improved AB-4852/AC-4851 is still small and lightweight, but now with more features that improve functionality and open new avenues for use. It can shoot in 8K8K 60p, 8K4K 120p, and 8K2K 240p (Dual 4K), giving users flexibility for any kind of situation.

One of the most exciting features is the ability to transmit signals between the camera head and CCU without the use of any additional optical converters, simplifying set up and reducing failure points.

The camera head and CCU communicate through QSFP, enabling them to be placed up to 2km apart. This is ideal for use in large areas like stadiums, outdoor arenas, or racetracks. Users can also connect directly to the camera head through a viewfinder to directly check the camera image.

The L-mount gives users a wider variety of lens options, allowing this 8K multipurpose camera to be used in many different industries and markets.

Use Cases

Stadiums and Other Large Venues OB Vans/Mobile Broadcast Units High-Reliability Broadcast Environments



With the extra distance provided by the direct single-mode fiber, this unit makes filming in a wider area a breeze. One clean line from camera to control with no extra boxes in between gives users fewer failure points and a much easier time setting up. Using an adapter plug, you can connect from the venue to the control room using existing SMPTE fiber.



With its compact size, AB-4852 is ideal for use in constricting conditions, while also reducing power requirements and cable clutter, essential when mobile. Its ability to be setup/torn down quickly makes it perfect when time is of the essence. As the CCU can output both 2SI and SQD signals (future upgrade), an external converter is not required.

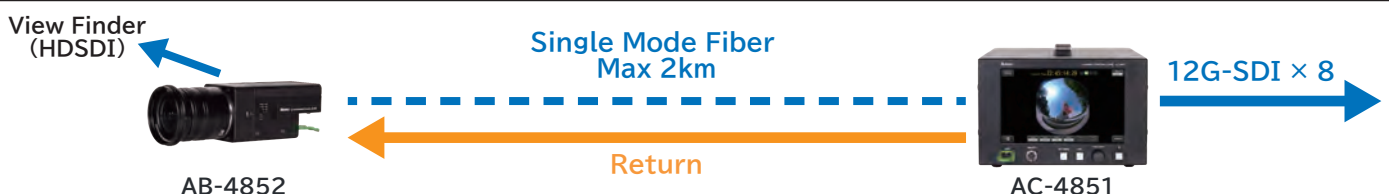


When downtime is unacceptable, the signal path for the AB-4852 is more direct, with fewer failure points for potential issues.

Features

- Long Distance Operation** Being able to place the camera head so far from the CCU makes operation in large areas easier than ever before. Now even the most remote locations are within reach.
- Return Video** Using the newly added return video function, users now have the option to check the camera angle and other functions directly from the camera head by connecting to a viewfinder or monitor.
- Simpler System** This new system eliminates the need for external converter units, creating a cleaner signal chain with fewer failure points. This also reduces the overall cost of the system (planned upgrade).

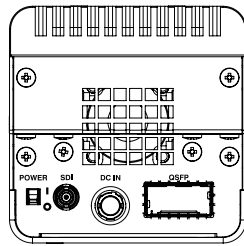
Connection Diagram



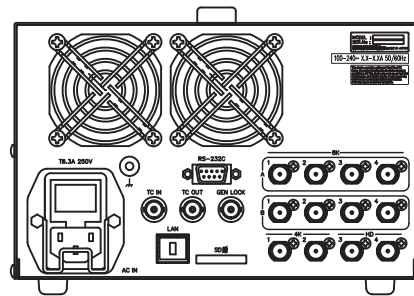


Connectors

Camera Head AB-4852



CCU AC-4851



Specifications

Camera Head (AB-4852)	
Image Sensor	Single plate CMOS image sensor 20.48mm×20.48mm
Effective Pixels	Approx. 67 million
ADC Bit Depth	10bit
Lens Mount	Leica L-mount
Electric Shutter	1/50, 1/60, 1/80, 1/100, 1/120, 1/125, 1/160, 1/200, 1/240, 1/250, 1/320, 1/400, 1/480, 1/500, 1/640, 1/800, 1/960, 1/1000, 1/1300, 1/1600, 1/1920, 1/2000, 1/2500, 1/3200, 1/4000, 1/5000, 1/6400, 1/8000
Frame Rate	59.94, 60, 119.88, 120, 239.76, 240
Gain	-3, 0, +3, +6, +9, +12, +18dB
Gamma Curve	<ul style="list-style-type: none"> ·SDR (Dynamic range 100,200,400,600) ·HLG (Dynamic range 100,200,250,400) ·Log Gamma
Color Gamut	ITU-R BT.2020, BT.709
Power Requirements	DC+12V
Operating Temperature Range	0~40°C
Operating Humidity Range	20~80%RH(no condensation)
Electricity Consumption	15W
Dimensions	68×68×140.4mm(excluding protrusions)
Weight	700g

CCU (AC-4851)		
8K Output Port	BNC×8	12G-SDI (2S1) (SMPTE ST 2082-12) 8K8K:59.94p, 60p 8K4K:119.88p, 120p 8K2K:239.76p, 240p
4K Down Conversion Output Port	BNC×2 (Split in two)	12G-SDI (2S1) (SMPTE ST 2082-10) 4K:59.94p, 60p
HD Down Conversion Output Port	BNC×2 (Split in two)	1.5G/3G-SDI (SMPTE 292M / SMPTE 424M level A) HD:59.94i/p,60i/p
QSFP Port	QSFP Cage	Insert the attached "QSFP-100G-CWDM4-S"
TC IN Port	BNC	SMPTE12-1
TC OUT Port	BNC	SMPTE12-1
GEN LOCK Port	BNC	HD3 value, BB
REMOTE Port	HR10 Round Connector, 12-Pin	Connect the RB-4816-2
Power Requirements	AC100V-240V	
Operating Temperature Range	0~40°C	
Operating Humidity Range	20~80%RH(no condensation)	
Electricity Consumption	110W	
Dimensions	3U Half-rack mount size (210×133×320mm) (excluding protrusions)	
Weight	3.7kg	

※The specifications are subjected to change without notice.

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