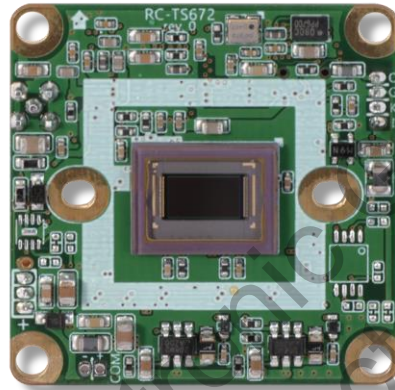


201-ESHSAHCV-662-xyzq

EX-SDI / HD-SDI Full-HD board camera



Videology Industrial-Grade Cameras

Over 1 Million Cameras Worldwide

At Videology, we specialize in meeting the customized specification requirements of OEMs, large-scale integrators and other partners, which have resulted in the delivery of over 1 million embedded cameras worldwide. We are an ISO 9001-certified company headquartered in Mansfield, Massachusetts (part of the greater Boston area), and our European operations are located in Eindhoven, the Netherlands.

Our Brand Difference

Our deep commitment to the customer experience delivers performance excellence throughout the entire customer journey. This is Videology's brand difference and it's our company's most important priority in serving the needs of our customers across the globe.

Our Brand Promise

How do we support our brand difference? We do so with a sincere promise we make to every Videology customer as follows: We provide competence, attention to detail and personal care with a level of excellence that will delight every customer in every interaction. This is Videology's brand promise and it's been the key to our growth and success – from a small start-up more than 25 years ago to a global leader in today's imaging industry.

1. Prior to Using

Videology reserves the right to modify the information in this document as necessary and without notice. It is the user's responsibility to be certain they possess the most recent version of this document by going to www.videologyinc.com, searching for the model number, and comparing revision letters on the respective document, located in the document's footer.

1.1 License Agreement (Software)

This Agreement states the terms and conditions upon which Videology Industrial-Grade Cameras (hereafter referred to as "Videology") offer to license to you the software together with all related documentation and accompanying items including, but not limited to, the executable programs, drivers, libraries, and data files associated with such software.

The Software is licensed, not sold, to you for use only under the terms of this Agreement.

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In using the Software, you agree not to:

- Decompile, disassemble, reverse engineer, or otherwise attempt to derive the source code for any Product (except to the extent applicable laws specifically prohibit such restriction);
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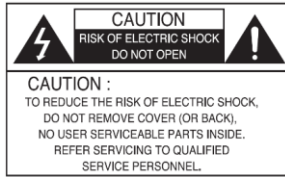
1.2 Limited Warranty (Hardware and Software)

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In no event shall Videology or its Licensor's be liable for any damages whatsoever (including, without limitation, incidental, direct, indirect, special or consequential damages, damages for loss of business profits, business interruption, loss of business information, or other pecuniary loss) arising out of the use or inability to use this Software or related Hardware, including, but not limited to, any of Videology's family of products.

2. Warning and Safeguards



- **Read instructions before operating the camera.**
- Please read/follow all instructions and read all warnings before operating the camera.
- Installation and servicing should only be done by Qualified Service and Installation Personnel.
- Installation shall be done in accordance with all local and national electrical and mechanical codes.
- Avoid mounting in direct sunlight.
- To reduce the risk of fire or electric shock, do not expose this appliance to rain, water or wet locations.
- If the camera is to be mounted outdoors a secondary waterproof enclosure should be used.


2.1 Precautions

- Do not put objects inside the unit. Make sure that no metal objects or flammable substances get inside the camera. It could cause fire, short-circuits or damaged.
- Be careful when handling the unit.
- To prevent damage, do not drop the camera or subject it to strong shock or vibration.
- Install away from electric or magnetic fields.
- Protect it from humidity and dust.
- Protect from high temperature.
- Be careful when installing it close to the ceiling, in a kitchen or boiler room, as the temperature may raise to high levels.
- Cleaning - Dirt can be removed from the cabinet only by wiping it with a soft cloth moistened with a soft detergent solution.
- Mounting Surface - The mounting surface material must be strong enough to secure the camera.
- Avoid viewing a very bright object (such as light fittings) during an extended period.

2.2 Care of the Unit

- Remove dust or dirt on the surface of the lens with a blower (commercially available).
- Avoid the use of volatile solvents such as thinners, alcohol, benzene and insecticides. They may damage the surface finish and/or impair the operation of the camera.
- Be careful not to spill water or other liquids on the unit.

2.3 Operating and Storage Location

- Consult the datasheet of the camera for temperature limits and guidance.
- Avoid damp or dusty places.
- Avoid places exposed to rain.
- Avoid places subject to strong vibration.
- Avoid places close to generators of powerful electromagnetic radiation such as radio or TV transmitters.
-  If the product is to be put out of operation definitively, take it to a local recycling plant for disposal which is not harmful to the environment.

3. Document History

Document History

Revision	Issue Date	Reason
Rev A	11/21/2024	Initial Release
Rev B	01/20/2025	Figure 1 updated with camera and lens spring

Aegis Electronic Group
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4. Description

This document describes the instructions for the quick startup of the **201-ESHAHCV-662-xyzq** camera, using the Development-Kit accessories.

5. Contents

In the **Dev-201-ESHAHCV-662-2C1N**, the following items are included:

- **201-ESHAHCV-662-2C1N** – 2MP Camera, EXSDI, HDSDI, AHD, CVBS, Sony IMX662, M-12 lens mount, Color, IR-Cut filter, NTSC
- **60ZRC08** - Control Board (OSD)
- **60C1200** - Power/CVBS/HD-SDI cable (cable all in one with breakout to SDI and connector 1 and 2)
- **32M02524F-5M** - 2.5mm 5MP Fixed Focal M-12 Lens
- **32M03618F-5M** – 3.6mm 5MP Fixed Focal M-12 Lens
- **32M06018F-5M** – 6.0mm 5MP Fixed Focal M-12 Lens
- **Lens mount Spring**
- **70V5042** - 0.9mm Hex Key
- **60C5031** - Wall mount Multi Plug Adapter 12VDC 1A



Figure 1 Development-Kit accessories

6. Connecting

6.1 Camera

Connect **60ZRC08** - Control Board (OSD), to the camera by plugging in the white connector to connector 2 on the camera. Then connect **60C1200** - Power/CVBS/HD-SDI cable to connector 1 and 3. Make sure to connect the white plastic connectors (1 & 2) in the correct pin-orientation, these should gently snap in place. When inserting the golden MMCX plug into connector 3, this requires more pressure to snap in place.

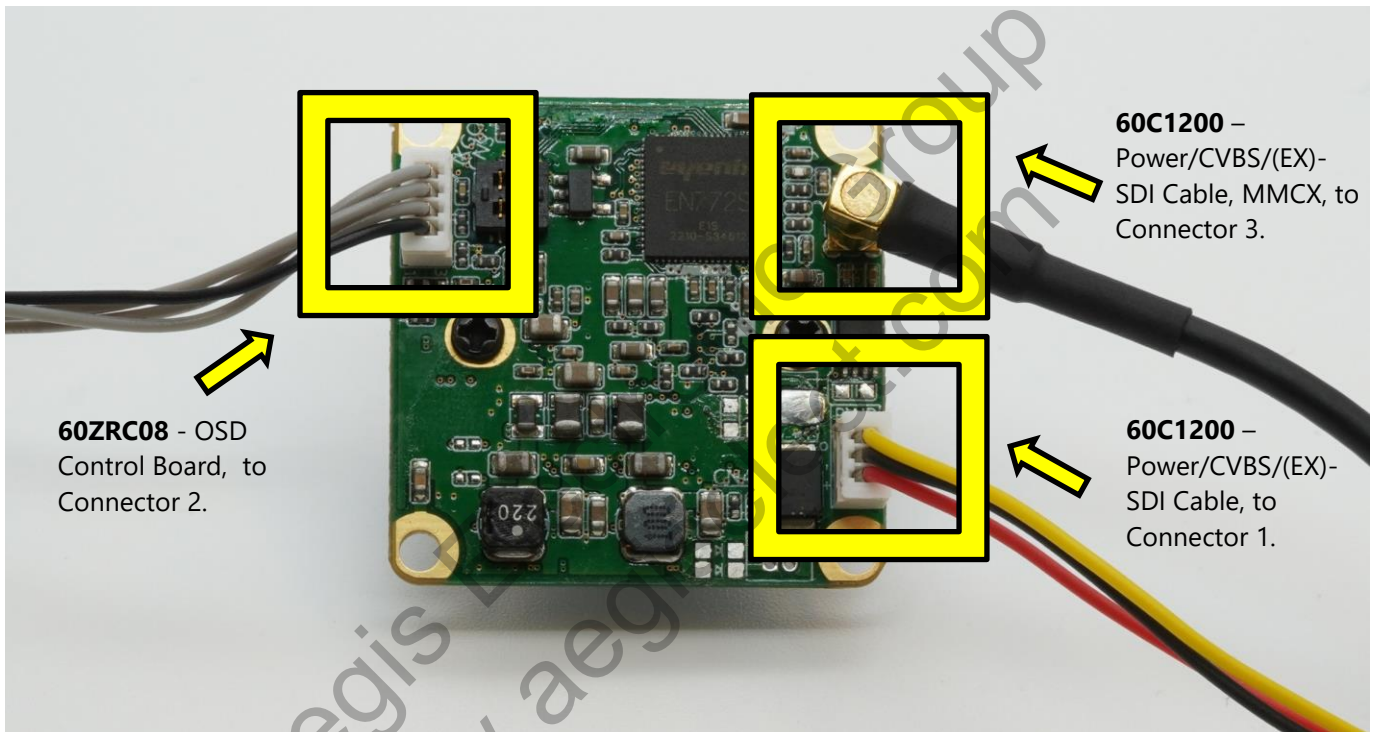


Figure 2 Camera Connections

6.2 Power/CVBS/HD-SDI cable

Connect **60C1200** - Power/CVBS/HD-SDI cable to the **60C5031** - Wall mount Multi Plug Adapter 12VDC 1A. Then attach the relevant wall plug to the power brick and insert into a power socket. Alternatively a power supply can be used, providing 12 V. Connect the BNC connectors to a monitor suited to CVBS and or HD-SDI/EX-SDI/AHD video signal.



Figure 3 Cable Connections

7. Lens Mount

Attach one of the three included M-12 lenses onto the camera, these have different focal lengths resulting in several field of view options.

Use the **70V5042** - 0.9mm Hex Key, to loosen the small lens fixing screw on the side of the lens mount. For the lens to be able to enter the treads this needs to be loosened, and can be tightened once the lens is focused to keep extra secure.

Additionally, before mounting the lens, the optional included fixing spring can be used to fix the lens extra secure.

Finally the lens is treaded into the lens mount and adjusted for focus.

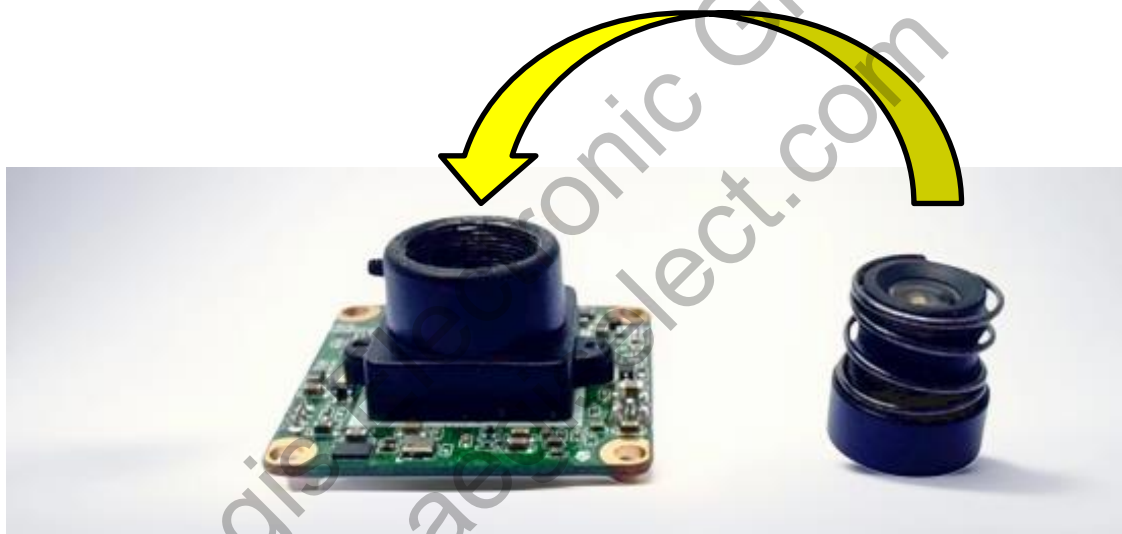


Figure 4 Lens mount Spring

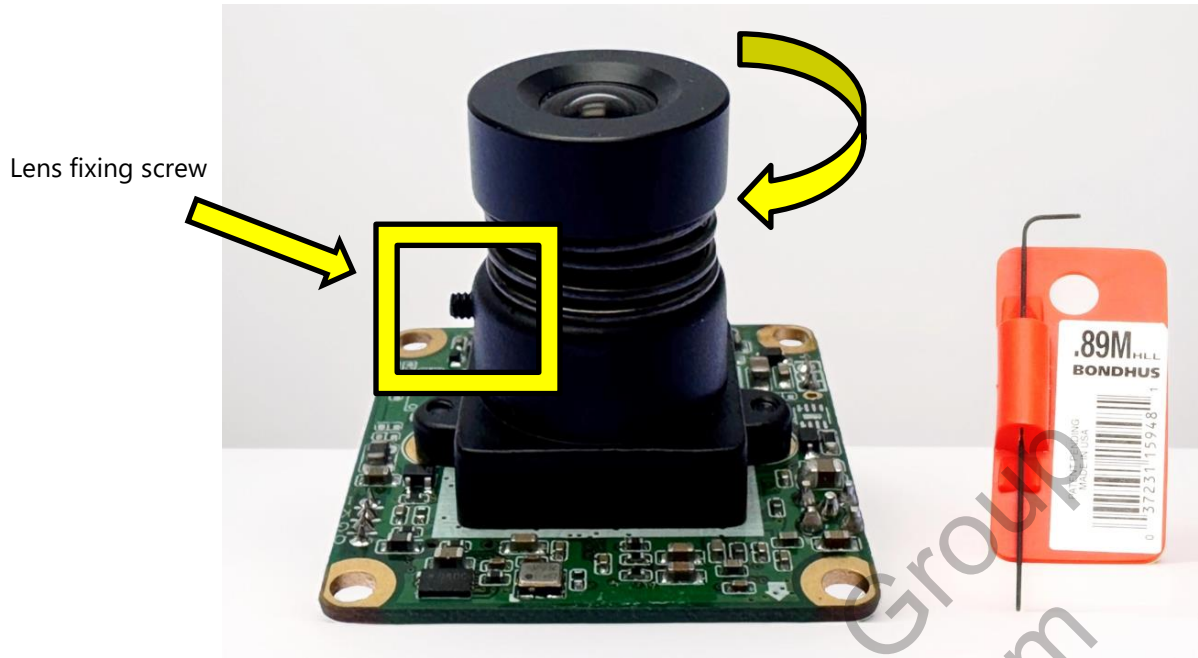


Figure 5 Lens Fixing screw

The camera is now ready for validation.

8. Operating OSD

Connect **60ZRC08** - Control Board (OSD), to the camera as shown previously. This board can be used to change the settings of the camera. Press down once on top of the stick to open the menu, which is displayed on the camera feed. Navigate the menu by pressing up or down on the stick. Select the desired options by pressing down on top of the stick. When done, use the SAVE option to keep settings. For more information consult the user guide.

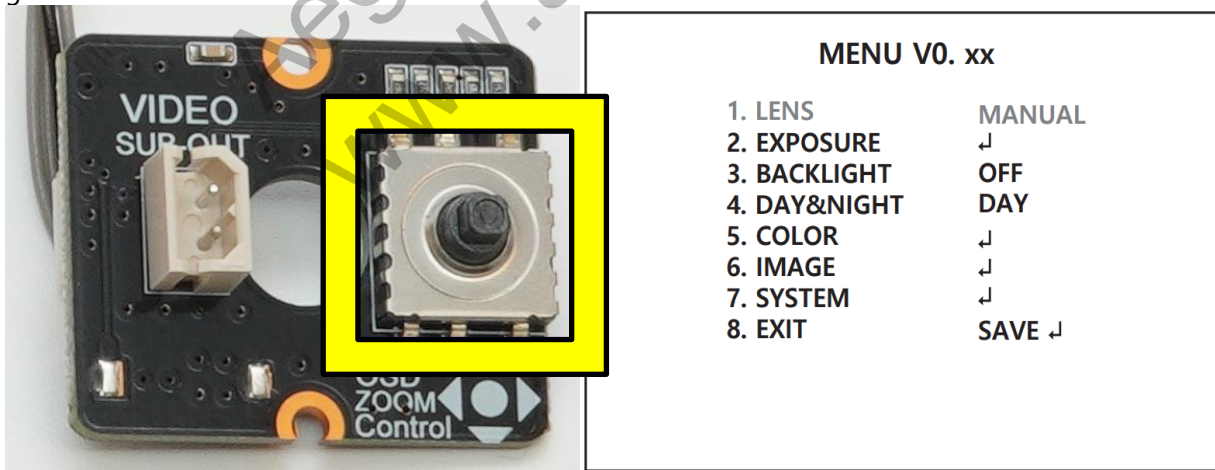


Figure 6 Control Board (OSD)



9. Contact Information

Excellence for More Than 25 Years

Founded in 1995, Videology is a global leader in the design, engineering and manufacturing of industrial-grade embedded video cameras, related systems, software and solutions. For more than 25 years we have been providing performance excellence in a broad spectrum of applications including biomedical devices, life sciences, banking, aerospace, traffic management, pipe inspection, and more. In October 2021, Videology was acquired by inTEST Corporation and currently is a part of the Process Technologies Division.



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