

SDTNOVA 3GSDI2812

SDTNOVA 3G-SDI HD Camera (Model: 3GSDI2812) Instruction Manual

Brand: SDTNOVA | Model: 3GSDI2812

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your SDTNOVA 3G-SDI HD Camera (Model 3GSDI2812). This camera is designed for digital CCTV security applications, offering high-definition video output with versatile lens options. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

PRODUCT FEATURES

- **High-Resolution Sensor:** Equipped with a 1/2.8" CMOS image sensor, providing 1920(H)*1080(V)/2MP effective pixels.
- **Versatile Video Output:** Supports 3G/HD-SDI digital signal and CVBS analog signal output.
- **Adjustable Lens:** Features a 2.8-12mm Manual Varifocal Wide-Angle 3MP HD Lens with CS Mount for flexible viewing angles (42°~110°).
- **Multiple Resolution Support:** Compatible with 1080@60/50/30/25P, 1080@60/50i, and 720@60/50/30/25P for broad compatibility with various devices.
- **Real-time Transmission:** Delivers 1080P high-definition image quality with no delay, no compression, and low loss.
- **Advanced Imaging:** Includes ultra-wide dynamic capabilities for strong light conditions and 3D image denoising for pure, fine details.
- **Night Vision:** Special features include night vision capabilities for low-light environments.

PACKAGE CONTENTS

Upon opening the package, verify that all items are present and in good condition. The standard package for the SDTNOVA 3G-SDI HD Camera (Model 3GSDI2812) typically includes:

- SDTNOVA 3G-SDI HD Camera body
- 2.8-12mm Manual Varifocal 3MP Lens (pre-attached or separate)
- Instruction Manual

- Power Adapter (DC12V)
- Mounting accessories (if applicable)

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Video: Unboxing and initial setup of a similar camera model, demonstrating package contents and basic connections.

SETUP INSTRUCTIONS

1. Attaching the Lens

If the 2.8-12mm manual varifocal lens is not pre-attached, carefully screw it into the CS mount on the front of the camera body. Ensure it is securely fastened but do not overtighten.

2. Power Connection

Connect the provided DC12V power adapter to the 'DC12V' port on the rear of the camera. Plug the adapter into a suitable power outlet. The camera will power on automatically.

3. Video Output Connection

The camera supports multiple video outputs:

- **3G-SDI Output:** Connect an SDI cable (not included) to the 'SDI' port for high-definition digital video.
- **CVBS Output:** Connect a BNC cable to the 'CVBS' port for standard definition analog video. This output can be useful for initial setup and menu navigation if an SDI monitor is not immediately available.
- **HDMI Output:** Connect an HDMI cable (not included) to the 'HDMI' port for high-definition digital video.
- **USB Output:** Connect a USB cable to the 'USB' port to use the camera as a webcam or for direct connection to a computer.



Image: Rear view of the camera highlighting the various connection ports and OSD menu control.

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Video: Demonstrates lens attachment, power connection, HDMI output, and OSD menu navigation.

OPERATING INSTRUCTIONS

1. Manual Zoom and Focus

The 2.8-12mm varifocal lens allows for manual adjustment of zoom and focus. Rotate the rings on the lens barrel to achieve the desired field of view and sharpness. Adjust these settings while viewing the live feed on your connected monitor.



Image: Front and side view of the SDTNOVA 3G-SDI HD Camera, showing the manual varifocal lens.

2. On-Screen Display (OSD) Menu Control

The camera features an OSD joystick/button on the rear panel for accessing and navigating the camera's settings menu. Use this control to adjust parameters such as White Balance, Exposure, ISO, Electronic Shutter, Brightness, Contrast, Sharpness, Saturation, and more. Refer to the 'SYSTEM' menu for frame rate and frequency settings.

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Video: Demonstrates OSD menu navigation and adjustment of various image settings.

MAINTENANCE

To ensure the longevity and optimal performance of your SDTNOVA 3G-SDI HD Camera, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning cloth and solution. Avoid abrasive materials or harsh chemicals.
- **Storage:** Store the camera in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Lens Protection:** When not in use, keep the lens cap on to protect the lens from dust and scratches.
- **Cable Management:** Ensure all cables are properly routed and secured to prevent damage or accidental disconnection.

TROUBLESHOOTING

If you encounter issues with your SDTNOVA 3G-SDI HD Camera, refer to the following common troubleshooting steps:

- **No Signal on SDI Output:**
 - Ensure the DC12V power adapter is correctly connected and providing power.
 - Verify the SDI cable is securely connected to both the camera's 'SDI' port and your receiving device.
 - Access the OSD menu (via CVBS output if necessary) and check the 'SYSTEM' settings for 'FRAME RATE' and 'FREQ'. Some devices may require specific settings (e.g., 1080_30P or 1080_25P) for compatibility. Adjust as needed.
- **OSD Menu Not Visible/Accessible:**

- If the SDI output is not working, connect a monitor to the 'CVBS' output to access the OSD menu.
- Ensure the OSD joystick/button is functioning correctly.

- **Blurry Image:**

- Adjust the manual focus ring on the lens until the image is sharp.
- Ensure the lens is clean and free from smudges or dust.

- **Poor Image Quality (Color/Brightness):**

- Navigate to the OSD menu and adjust 'White Balance', 'Exposure', 'Brightness', 'Contrast', 'Sharpness', and 'Saturation' settings to optimize image quality for your environment.

SPECIFICATIONS

Feature	Specification
Model Number	3GSDI2812
Image Sensor	1/2.8" CMOS Sensor
Effective Pixels	1920(H)*1080(V) / 2MP
Resolution	1080P 25(PAL) / 30(NTSC) FPS
Lens	2.8-12mm Manual Varifocal Wide-Angle 3MP HD Lens CS Mount
Angle of View	42°~110°
Video Output	3G/HD-SDI, CVBS, HDMI, USB
Backlight Compensation	Auto
White Balance	Auto Tracking White Balance
Working Temperature	-10°C~60°C
Dimensions	3.54 x 1.73 x 1.73 inches
Item Weight	6.9 ounces
Special Features	Night Vision

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or contact SDTNOVA customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question