SECURITY TRONIX
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HD-COAXINATOR™

Professional Motorized Varifocal Camera

ST-HD-D2812M-2MP
INSTALLATION MANUAL

NB
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SYMPHONIC DESIGNS

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Description:

The ST-HD-D2812M-2MP is a professional-grade dome color camera with IR and motorized zoom capabilities, and 1080p resolution. A 2.8mm to 12mm motorized lens makes zooming and focusing during installation fast and simple, and its ability to send HD video over coaxial cable makes the ST-HD-D2812M-2MP a cost effective high-definition surveillance solution for any budget.

Specifications:

Image Sensor	1/2.8" CMOS
Resolution	1920(H) x 1080(V) @25fps
Scanning System	Progressive
Auto Electronic Shutter	1/3s ~ 1/100,000s
Minimum Illumination	0.05Lux@F1.2; 0Lux (IR on)
Video Output	1-channel BNC HD-CVI high definition video output / CVBS standard definition video output (Can switch)
Day/Night	Auto(ICR) / Color / B/W
Noise Reduction	2D/3D
Lens	2.8mm - 12mm, Motorized
IR LED	2PCS
IR Distance	Up to 98 feet
Power Supply	DC12V 1A
Power Consumption	8.5W (IR on)
Working Environment	-20°f ~ 133°f / Less than 95% RH
Ingress Protection	IP66
Dimensions	φ 4.8"x3.5"
Weight	1lbs

⚠️ **CAUTION:** To reduce the risk of electrical shock, do not open this unit. No user serviceable parts are inside.

⚠️ **CAUTION:** To prevent electric shocks and risk of fire hazards, do not use other than specified power source.

Unpacking

Package Contents:

- (1) ST-HD-D2812M-2MP Motorized Varifocal IR Camera
- (1) Installation Manual

Note: The ST-HD-D2812M-2MP requires a 12VDC 1A power supply such as the ST-PS12VDC1A.

Ensure that all accessories and documentation are removed from the container before discarding packing material.

Inspect the front, sides, and rear of the equipment for shipping damage. Make sure the equipment is clean, and no connectors are broken, damaged, or loose. If equipment appears to be damaged or defective please contact your distributor or SecurityTronix at:

(800) 688-9282, press **3** for tech support, then press **2** for CCTV.
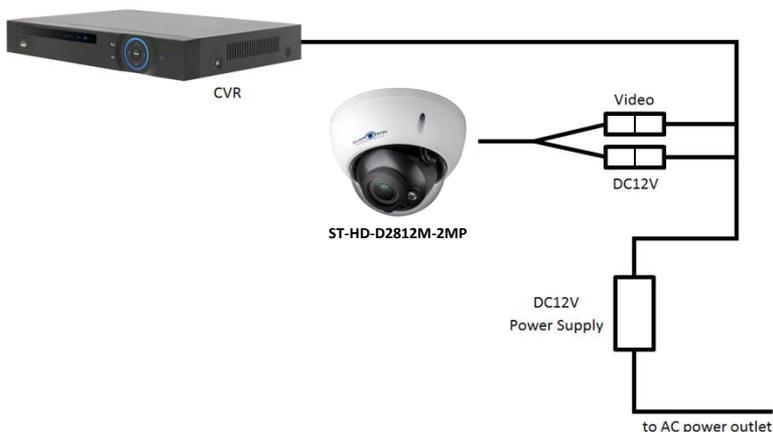
Setup & Installation

!! ATTENTION !!

- The installer must comply with electrical safety standards. There must be sufficient space between the camera's power supply and video line and any high voltage equipment and/or cables.
- To help ensure the camera's life and proper operation do not point the camera towards the sun or strong light.
- Do not install the camera in an environment where the temperature is above 130°f.
- Do not install the camera near a magnetic field or a high-power motor.
- Do not mount the camera near a radiator or heater.
- The installation site and material must fully support the weight of the product.

- Only use a dry cloth to clean the camera. If there is dirt that is difficult to remove wipe gently with a mild detergent. Never use strong or abrasive detergents.
- A 12VDC power supply must be used. Using an AC or other incorrect power supply will damage the camera.
- Only qualified installers are allowed to install and test the camera.
- The camera is a low voltage product. If installed outdoors proper safety and lightning grounding are required.
- Be sure the grounding, wiring, input power, and voltage are correctly set prior to powering up and using.

Making Connections

1. Connect the DC power supply cable to the camera's power connector.
2. Connect the camera to the CVR with a 75Ω coaxial video cable.
3. Connect power supply's AC plug to a suitable AC power outlet.

Zoom & Focus

The ST-HD-D2812M-2MP features motorized zoom and focus, and is controlled from the CVR via COC (control over coax).

Using the on-screen PTZ controller of the CVR, press the **ZOOM -/+** buttons to reach the desired level of zoom. The camera will then auto-focus. If fine-tuning of focus is necessary, press the **FOCUS -/+** buttons until the desired focus is achieved.

Switching to Analog Output

If SD (standard definition) analog output is desired, disconnect power from the camera, then connect the labeled brown and white wires on the camera to each other before powering the camera back on.

To switch back to HD-CVI output, disconnect power from the camera, and disconnect the labeled brown and white wires on the camera from each other before powering the camera back on.

On-Screen Display

To enter the OSD, click the **MENU OPEN** button on the CVR's on-screen PTZ controller, then click **ENTER**. Navigate the OSD using the PTZ controller's up, down, left, and right arrows. Confirm selections by pressing **ENTER**.

Troubleshooting

Issue	Solution
No picture after applying power.	(1) Check that all plugs and cables are securely connected to the proper connectors. (2) Ensure that the power supply is providing the correct voltage and current.
Picture is consistently tinted or distorted.	(1) Check that the coaxial video cable from the camera to the CVR is securely connected at both ends. (2) Connect the camera to an alternate working coaxial video cable between the camera and CVR. (3) Re-terminate the coaxial video cable between the camera and CVR with new BNC connectors.
Picture has ripples or rolling lines.	(1) Check to see if the power supply is experiencing AC ripple; if so, a filter may be required. (2) Determine if the monitor is faulty. (3) Determine if other peripheral equipment is causing ripple, and if so, make the necessary adjustments.
The picture is tinted / continuously changing Colors.	Fluorescent lights' magnetic field may cause color roll. (1) Check that the coaxial video cable between the camera and CVR is not too close to fluorescent lights; increase distance as needed. (2) Reduce the number of fluorescent lights near the camera.

For further assistance and troubleshooting, please contact SecurityTronix tech support at:

(800) 688-9282, press **3** for Tech Support, then press **2** for CCTV.