

HDCVI IR Motorized Vari-focal Fixed Camera

User's Manual

Version 1.0.1

1.25118.10619-000

Welcome

Thank you for purchasing our HDCVI camera! This user's manual is designed to be a reference tool for your system. Please read the following safeguard and warnings carefully before you use this series product! Please keep this user's manual well for future reference!

Important Safeguards and Warnings

1. Electrical safety

All installation and operation here should conform to your local electrical safety codes.

The power shall conform to the requirement in the SELV (Safety Extra Low Voltage) and the Limited power source is rated 12V DC in the IEC60950-1.

We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

2. Transportation security

Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.

3. Installation

Do not apply power to the camera before completing installation.

Please install the proper power cut-off device during the installation connection.

Always follow the instruction guide the manufacturer recommended.

If this product is installed in the ceiling, please make sure the installation position can sustain the min 50N.

Important Safeguards and Warnings

4. Qualified engineers needed

All the examination and repair work should be done by the qualified service engineers.

We are not liable for any problems caused by unauthorized modifications or attempted repair.

5. Environment

This series HDCVI camera should be installed in a cool, dry place away from direct sunlight or strong light, inflammable, explosive substances and etc.

This series camera shall work on the specified working temperature. Please keep it away from the electromagnetic radiation object and environment.

Please make sure the CMOS component is out of the radiation of the laser beam device. Otherwise it may result in CMOS optical component damage.

Please keep the sound ventilation.

Do not allow the water and other liquid falling into the camera.

6. Daily Maintenance

Be sure to use all the accessories recommended by manufacturer.

Before installation, please open the package and check all the components are included.

Contact your local retailer ASAP if something is broken in your package.

7. Accessories

Please shut down the device and then unplug the power cable before you begin daily maintenance work.

Use the dry soft cloth to clean the device. If there is too much dust, please use the water to dilute the mild detergent first and then use it to clean the device. Finally use the dry cloth to clean the device.

Please put the dustproof cap to protect the CMOS component when you do not use the camera.

Applicable model

This manual can be applied to following models:

HAC-HFW2120RP-Z	HAC-HFW2120RN-Z
HAC-HFW2220RP-Z	HAC-HFW2220RN-Z

1 General Introduction

1.1 Overview

This series megapixel HD camera conforms to the HDCVI standard. It supports video signal high-speed long distance transmission without any delay. It can be controlled by the DVR conforming to the HDCVI.

1.2 Features

- High-performance CMOS image sensor, megapixel definition
- Default motorized vari-focal lens, adopt auto focus technology, support coaxial cable to control lens zoom and focus
- Support HD video and control signal coaxial transmission.
- Support 75-3 coaxial cable transmission without any loss. 720P series transmission distance over 500m, 1080P series transmission distance over 300m.
- High speed, long distance real-time transmission.
- Support HDCVI HD and analog SD switch output.
- 720P series support 720P@25, 720P@30, 720P@50, 720P@60. 1080P series support 1080P@25, 1080P@30, 720P@25, 720P@30, 720P@50, 720P@60.
- Support high performance 3D noise reduction (denoise), excellent performance in low illumination
- Support ICR switch to realize surveillance both in the daytime and at night.
- Support OSD (on-screen display), suitable for user self-defined setup
- Support DC12V power supplying.
- IP66 compliance.
- Support intelligent IR function, max IR distance 30m.

1.3 Functions

HDCVI Specification

HDCVI (High Definition Composite Video Interface) is an over-coaxial-cable HD video transmission standard. The technology renders two HD video formats by progressive scanning.

Auto Focus Technology

Detect the location of main screen by the camera auto focus algorithm, and auto adjust focus motor according to the current focus situation, which would realize zoom control the entire auto focus. The image stays clear during the process of zooming.

OSD

User-friendly on-screen display for you to select the different functions.

ICR

The IR cut removal is to filter the IR light in the daytime and then auto switch to the general filter at night. This function allows the camera to output the high sensitivity and clear video.

Smart IR technology

The sensor controls the IR light on/off via the combination work of the hardware and software, which realizes the automatically IR light compensation according to the environment illumination.

3D NR

Comparing with the general 2D denoise function, the 3D denoise function can not only denoise the brightness of the video separation signal and saturation signal, it can also denoise the original data from CCD. It greatly enhances noise reduction performance and guarantees clear and bright video.

2 Framework and Dimensions

2.1 Dimensions

Please refer to the following figure for dimension information. The unit is mm. See Figure 2-1.

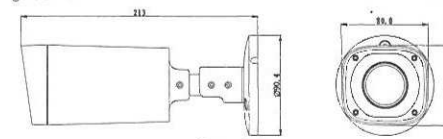


Figure 2-1

2.1 Structure

Please refer to the following figures for structure information. See Figure 2-2 and Figure 2-3.

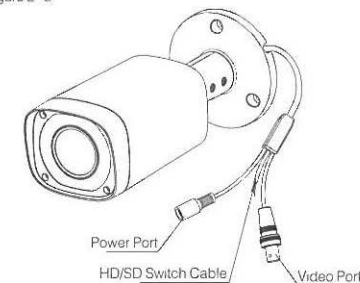


Figure 2-2

When the standard definition/high definition switch control cable is short circuit, system outputs standard definition video. Otherwise, when the circuit is open, system outputs the high definition video.