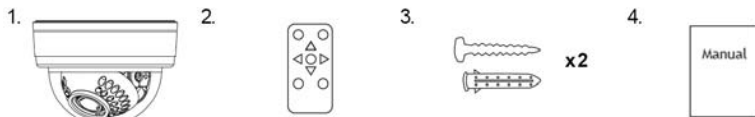


PACKAGE CONTENTS

1. One (1) HD21XD36-K10 / HD21XD36-K4 Camera
2. One (1) RF Remote Control w/ Battery
3. Two (2) Wall Mount Screws w/ Holders
4. One (1) Operational Manual



* For any returns, please include all components listed above with original packaging in Resalable Condition.
Absolutely No Returns will be accepted if any component is missing / damaged or if any cable is cut or tampered with.

WARRANTY

OKINA USA products are covered under warranty for three (3) year from the date of purchase. The warranty will automatically be voided if any of the following occurs:

1. Camera sticker is removed

If the camera sticker is removed, we will not be able to confirm any information regarding when and where the product was purchased. We have no other way to verify the purchase record without the serial number on the camera sticker; therefore, it should not be removed.

2. Camera is modified in any way

If the camera is scratched, damaged, or modified in a manner not described in this manual, the warranty will be voided immediately. It is the customer's responsibility to keep the camera in good condition.

3. Video or power cable is cut

The video cable and the power cable should not be tampered with. Cutting or modifying of the cables will result in termination of the warranty.



CAUTION

1. Never point the camera toward the sun

Do not expose the lens directly to the sun or to strong light as this may damage the pick-up device.

2. Handle this camera with care

Avoid any shock or bumping of the camera. Improper handling could damage the camera.

3. Requires a proper operating environment

This camera is designed for outdoor or indoor use. The allowable temperature range for operation of this camera is between -50°F ~ 144°F / -10°C ~ 60°C and the allowable humidity is 90%RH maximum or less.

4. Clean the front face to the pick-up device

It is recommended that the pick-up device surface be cleaned before lens installation or whenever the lens is changed. Cleaning should be done by using a chamois, a very fine soft cloth, lens tissue, or cotton tipped applicator and ethanol to carefully remove any fingerprint or dust.

5. Check the power source voltage

The power source voltage should be within the specified range. (Camera must meet the specifications). Camera must be connected to a surge protector at all times.

6. Objects and liquid entry

Never push objects of any kind into this camera as this may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill any kind of liquid on the video product.

7. Servicing

Do not attempt to service this video product by yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all service to qualified servicing personnel.

8. Damage requiring service

Unplug this video product from the wall outlet and refer service to qualified servicing personnel under the following conditions: a. When the power supply cord or plug is damaged. b. If liquid has been spilled, or objects have fallen into the video product. c. If the video product has been dropped or the cabinet has been damaged. d. When the video product exhibits a distinct change in performance.

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OKINA USA

HD21DX36-K10

HD21DX36-K4

Operational Manual



International Patent Registered:
PCT/KR2011/007613 & 7656 & 8080

HD SDI 1080P Optical Zoom & Auto Focus 36 IR LED Indoor Dome Camera



Auto ZF Camera – Made in Korea

Auto ZF Lens – Made in Korea



Please read the Operational Manual
before attempting to use this product.

4x/10x Various Auto DC IRIS Twin stepping Motorized
Varifocal Lens with Dual Filter change mechanism F1.4

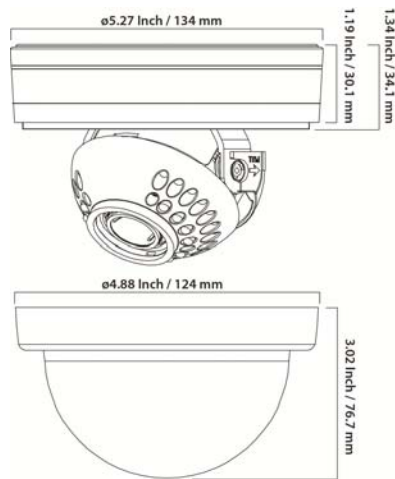
FEATURES

- SDI 1080p - 1920 x 1080
- 1/3" Panasonic CMOS
- **HD21DX36-K10: Auto IRIS Twin Stepping Motorized Lens - 10X Zoom - 5~50mm**
- **HD21DX36-K 4: Auto IRIS Twin Stepping Motorized Lens - 4X Zoom - 2.8~12mm**
- **36 OSRAM IR LED – IR Distance: 60 feet/ 20 meter**
- Mechanical IR Cut Filter – ICR
- OSD, and RS485
- 12V DC – Day/IR OFF: 400mA, Night/IR ON: 700mA ★
- IP64 Rating

★ Due to the Twin Motorized AF Lens, we recommend to use 12V DC 1.5A / 1500mA
for each camera.

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DIMENSIONS (Unit: Inch / mm)

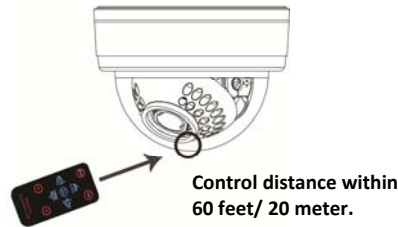


#1 HD-SDI (Gold)

#2 POWER (Red)

#3 RS485

Orange (+), White (-)
PELCO D 9600bps connection



PARTS AND FUNCTIONS

① RESET button for lens position

- Optimize AF lens position
- Reset the correct position of zoom & focus
- Fixing malfunction of the lens and the focus error resolved

② OSD Menu Open button (Press 3 seconds)

- Auto, focus & zoom features Stopped
- Automatically changes to OSD Mode, OSD Menu will show up
- Select 'EXIT' on OSD Menu, OSD Mode stopped

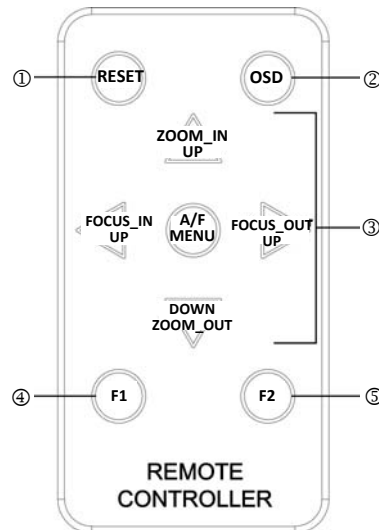
③ Five Direction Key Operations:

OSD Control Mode

| Label Name | Function |
|------------|--------------|
| A/F MENU | ENTER Button |
| ▲ | Up |
| ▼ | Down |
| ◀ | Left |
| ▶ | Right |

LENS (AF) Control Mode – Zoom & Focus

| Label Name | Function |
|------------|--------------------------------|
| A/F MENU | Quick Auto Focus Aiming Button |
| ▲ | Zoom-In (Tele) |
| ▼ | Zoom-Out (Wide) |
| ◀ | Focus-In (Near) |
| ▶ | Focus-Out (Far) |



④ F1 Function Button

- Locking all control of the camera - Press 5 seconds
- Release from locking function - Press 5 seconds

⑤ F2 Function Button

- Only to the special purpose camera

SPECIFICATIONS

| Model | HD21DX36-K10 | HD21DX36-K4 |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Image Sensor Format | 1/3" PANASONIC 2.1MEGAPXIEL WDR(Wide Dynamic Range) CMOS - ACCE Technology | |
| Total Pixels | Max.1920 x 1080 (1080P FULL HD) | |
| Horizontal Resolution | 2.1Megapixel (1920 x 1080) | |
| IR LED | IR LED Number | OSRAM BLACK Visible 5mm, 200mA POWER IR LED(850nm, 24°) x 36ea |
| | Visibility Range | Real 30meter(Approximately 90fts) with OSRAM IR LED (Made in Germany) |
| | Day & Night Performance | True Color at Day time & True B/W at Night time (TDN - Automatically Burst On/Off) |
| | Filter Change | Dual IR Filter Automatic Exchange Mechanism (IR CUT Filter for Day time / IR PASS Filter for Night time) |
| Video output | BT.656/BT.1120/YC16bits/Max.1920 x 1080@30p/1920 x 1080@60i/1280 x 720@60p/CVBS 1.0Vp-p Composite. | |
| S/N ratio | More than 58dB (AGC Off, F1.0) | |
| Min. Illumination (IR LED Off) | 0.03Lux/F1.4 - True Day & Night Function(Selectable by OSD) | |
| WDR | WDR(WIDE DYNAMIC RANGE) LOW -MID-HIGH MAX.120dB) | |
| Shutter Speed | Auto / FLK / 1/30 ~ 1/10000 | |
| White Balance (HLC) | 1800°K ~12,500°K (ATW, AWC, USER, INDOOR/OUTDOOR, MANUAL), High Light Compensation Balance (Selectable by OSD) | |
| MTTF | 80,000 hours or more (TWIN Stepping Motor - Guaranteed 50,000 working hours) | |
| SENS-UP | AUTO / FIXED / OFF (Selectable Limit : LOW(2x) ~ HIGH(512x) | |
| 2D+3D-DNR (Digital Noise Reduction) | OFF / ON (Level Adjustable / Max. 512x - 2D + 3D DNR) | |
| Lens | ZOOM Lens Spec. | 5 - 50mm TWIN Motorized AF Lens |
| | ZOOM Magnification Rate | Optical 10X + Digital 14X = Total 140X |
| | Angle Of View | 64.2° ~ 6.9° |
| | Day & Night Performance | AUTO (True Day & Night with Dual IR Filter Change) / OFF / B&W / EXT (Duration/Dwell Time Adjustable) |
| Power source | DC12V ± 10% | |
| Operation Temperature | -10°C ~ 60°C (14°F ~ 144°F) | |
| Storage Humidity | Within 95% RH (IP=64 Waterproof) | |
| Output Terminal | SDI BNC Female for Video, Connector for DC Power input, 2 Wires RS-485(+),(-) | |
| Weight | 1 lbs / 454g | |

* Specifications are subject to change without notice.

HARDWARE RS485 WITH PTZ KEYBOARD SETUP

Default protocol is Pelco-D and default baud rate is 9600 for RS485 communication between camera and PTZ controller.

It is highly recommended that you run an additional cable for your RS485 communication from your camera.

**Some models may have RS485 setting in menu. Please leave RS485 baud rate setting at 38400.*