TC-B5501XP-A

Architectural and Engineering Specifications

Version v1.0

(June. 08. 2021)

**PART 1: PLEASE REFER TO ATTACHED DOCUMENTS - OVERVIEW & FORMAT SAMPLES**

**PART 2: PRODUCTS**

**Division 28 – Electric Safety and Security**

**Section 28 23 29 – Video Surveillance Remote Devices and Sensors**

## Manufacturer

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## General

### Product Description

TC-B5501XP-A is a HD-TVI Box Camera designed and manufactured by IDIS. This camera provides 5M (2592 X 1944) resolution. Also, this camera is compatible with optional C/CS mount lens type with capability of DC Auto IRIS / ELC control. In addition, supports for progressive scan CMOS, privacy masking and motion detection are provided. This camera supports standard communication protocols and it provides OSD which is available in various languages. This camera is equipped with Day&Night, and PoC.

### General Specification

1. The HD-TVI camera shall be equipped with 1/2.8” CMOS Sensor for capturing images. Also, this camera shall be equipped with an optional C/CS mount lens.
2. The HD-TVI camera shall be a Day&Night camera with a mechanical filter for low light performance. The filter can be switched remotely, or automatically via a light level sensor or contact input (ICR).
3. The HD-TVI camera shall have WDR(Wide Dynamic Range) compensation for improved video quality in high-contrast situations. So even too light images can be seen to make it dimmed. This camera shall support True WDR.
4. The HD-TVI camera shall utilize configurable Dynamic Noise Reduction technology to reduce the bitrate and storage requirements by removing noise artifacts.
5. The HD-TVI camera shall be equipped with Coaxial cable connection.
6. The HD-TVI camera shall support industry standard Power over Coaxial (PoC) to supply power to the camera.
7. The HD-TVI camera shall have 1 HD BNC (Signal Switchable) video out feature.
8. The HD-TVI camera shall support De-fog feature mode. It is the image compensation feature for the clear video in the mist or fog environment.
9. The HD-TVI camera shall support Motion Detection functionality (4 Zone).
10. The HD-TVI camera shall support OSD(On-Screen Display) Control over Coax. The control UI can be seen On-Screen Display and it goes through the coaxial cable connection.
11. The HD-TVI camera shall support HLC with 1~20 level adjustable. It makes stable video quality with preventing specific back light source from images.

## Technical Specification

### Video Specification

1. Image Sensor: 1/2.8” CMOS Sensor
2. Effective Pixels: 2616(H) X 1964(V)
3. Maximum Resolution: 2592 x 1944
4. Scanning Mode: Progressive Scan
5. Frame Rate
   1. TVI : 20ips@5MP, 12.5ips@5MP, 30ips@4MP, 30ips@2MP
   2. AHD : 20ips@5MP, 12.5ips@5MP, 30ips@4MP, 30ips@2MP
6. Lens Type: Optional (C/CS mount)
7. Iris Control: DC Auto Iris / ELC
8. Minimum Illumination:
   1. Color: 0.11 Lux @ F1.6
   2. B/W: 0.06 Lux @ F1.6
9. S/N Ratio: more than 50dB
10. Electronics Shutter Speed: Auto, Manual (1/30, 1/25 Sec ~ 1/30,000 Sec) and Flicker Mode
11. Day & Night: Yes (ICR)
12. Video Output: 1 HD BNC (Signal Switchable)

### Functional Specification

1. AGC(Automatic Gain Control): 0~10 Level Adjustable
2. Brightness: 0~20 Level Adjustable
3. Sens-Up[[1]](#footnote-1): Off / x2 ~ x32
4. WDR : Selectable Options are OFF / FRAME / LINE (LOW, MIDDLE, HIGH) /ROI Mode available
5. BLC(Back Light Compensation ): Off / On
6. HLC: 1~20 Level Adjustable (All Day / Night Only)
7. Motion Detection: Off / On (4 Zone)
8. Privacy Masking: Off / On (24 Zone \_ BOX: 16 & POLYGON: 8)
9. Day&Night: Auto(AGC)/Color/B&W
10. Color: Set as during day time
11. B&W: Set as during night time
12. Smart-IR (IR Optimizer): 0~20 Level Adjustable
13. White Balance: AUTO / AUTOext / AWC-SET / MANUAL (3,000K, 5,000K, 8,000K)
14. DNR: configurable OFF/LOW/MIDDLE/HIGH
15. Mirror: Mirror / Flip
16. Digital Zoom(E-Zoom) : x1 ~ x16
17. Sharpness: 0~10 Level Adjustable
18. De-fog: Off / On
19. GAMMA Correction: r = 0.45 ~ 0.75

## Environmental Specification

1. Operating Environment
   1. Temperature: -10°C ~ +50°C (+14°F ~ +122°F)
   2. Humidity: 0% to 90%
2. Storage Environment
   1. Temperature: -20°C ~ +60°C (-4°F ~ +140°F)
   2. Humidity: 0% to 95%

## Electrical Specification

1. Power Source: PoC (42V)
2. Power Consumption: 3.5W

## Mechanical Specification

1. Dimensions (W x H x D): Ø74mm x 60mm x 121.9mm (Ø 2.91" x 2.36" x 4.8")
2. Weight : 0.27kg(0.6lb)

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | TS Team | June. 08. 2021 | Initial release |
| 1.1 | TS Team | June. 07. 2022 | Modified specification |

1. Image processing technology to prevent the blurred image in low light conditions. It allows that user can select digital slow shutter for gaining extra light to the camera and get higher sensitivity in dark conditions. [↑](#footnote-ref-1)