

TC-B1202

Architectural and Engineering Specifications

Version 1.0
(Jun. 2, 2016)

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****2.1.0 Manufacturer**

1. IDIS Co., Ltd.
IDIS Tower, 344 Pangyo-ro, Bundang-gu
Seongnam-si, Gyeonggi-do, 463-400, Korea
Tel: +82 31 723 5400
Fax: +82 31 723 5100

2.2.0 General**2.2.1 Product Description**

TC-B1202 is a HD-TVI Box Camera designed and manufactured by IDIS. This camera provides Full HD 1920 x1080 resolution. Also, this camera is compatible with optional C/CS mount lens type with capability of DC Auto or manual IRIS 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 12VDC/24VAC.

2.2.2 General Specification

1. The HD-TVI camera shall be equipped with 2 Megapixel 1/2.8" CMOS Sensor for capturing Full HD 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 at 15fps(frame per second). So even too light images can be seen to make it dimmed. This camera shall support True WDR as well as Digital WDR.
4. The HD-TVI camera shall utilize configurable 2DNR+3DNR(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 use 12VDC/24VAC power input to supply power to the camera.
7. The HD-TVI camera shall have video out feature (NTSC/PAL).
8. The HD-TVI camera shall deliver maximum video resolution of 1920x1080 at 30ips(images per second) when the True WDR is off.
9. 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.
10. The HD-TVI camera shall support Motion Detection functionality.
11. The HD-TVI camera shall support OSD Control over Coax. The control UI can be seen On-Screen

Display and it goes through the coaxial cable connection.

12. The HD-TVI camera shall support UTC(Up The Coax) mode. It can be set and used as PTZ - UTC on Camera Setup. The UTC can allow user to remotely set the camera's OSD (On-Screen Display) through its UTC IC -Coaxial Cable.
13. The HD-TVI camera shall support HSBLC(Highlight Suppression Back Light Compensation) with 1~20 level adjustable. It makes stable video quality with preventing specific back light source from images.

2.3.0 Technical Specification

2.3.1 Video Specification

1. Image Sensor: 2 Megapixel 1/2.8" CMOS
2. Pixels:
 - A. Effective Pixels: 1984(H) x 1105(V) / 2.19M
 - B. Total Pixels: 2000(H) x 1121(V) / 2.24M
3. Maximum Resolution: 1920 x 1080
4. Scanning Mode: Progressive Scan
5. Lens Type: Optional (C/CS mount)
6. Iris Control: DC Auto Iris / Manual Iris
7. Minimum Illumination:
 - A. Color: 0.3 Lux @ F1.4 (AGC Max)
 - B. B/W: 0.1 Lux @ F1.4 (AGC Max)
 - C. 0.001 Lux @ F1.4 (AGC Max, Sens-up Max)
8. S/N Ratio: more than 50dB
9. Electronics Shutter Speed: Auto, Manual (1/30, 1/25 Sec ~ 1/30000 Sec) and Flicker Mode
10. Maximum Frame Rate: 30ips@1920x1080
11. Video Resolution: 1920x1080 / 1280x720 / 1280x720 Crop
12. Day & Night: Yes (ICR)
13. Video Output: 1 HD BNC, 1 SD BNC

2.3.2 Functional Specification

1. AGC(Automatic Gain Control): 0~20 Level Adjustable
2. Brightness: 0~20 Level Adjustable
3. Sens-Up¹: Off / x2 ~ x32

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.

4. WDR
 - A. Selectable Options are Low, Middle, High and Off.
 - B. When WDR option is On (Low / Middle / High), camera acts at 120dB and 15fps.
5. BLC(Back Light Compensation): Off / On
6. HSBL: 1~20 Level Adjustable (All Day / Night Only)
7. ACE² (Digital WDR / ATR³-EX): Off / Low / Middle / High
8. Motion Detection: Off / On (4 Zone)
9. Privacy Masking: Off / On (16 Zone)
10. Day&Night: Color / B&W / Extern
 - A. Color: Set as during day time
 - B. B&W: Set as during night time
 - C. Extern: Day&Night mode changed according to external intensity sensor of illumination
11. White Balance: Auto (2,500K ~ 9,500K) / AWB (1,800K ~ 10,500K) / AWC→Set / Manual
12. DNR: configurable 2DNR+3DNR (Off / Low / Middle / High)
13. Mirror: Mirror / V-Flip
14. Digital Zoom / Electric Zoom: x1 ~ x8
15. Sharpness: 0~20 Level Adjustable
16. De-fog: Off / On
17. GAMMA Correction: $r = 0.45 \sim 0.65$
18. LSC(Lens Shading Compensation): Off / On

2.4.0 Environmental Specification

1. Operating Environment
 - A. Temperature: $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$ ($+14^{\circ}\text{F} \sim +122^{\circ}\text{F}$)
 - B. Humidity: 0% to 90%
2. Storage Environment
 - A. Temperature: $-20^{\circ}\text{C} \sim +60^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim +140^{\circ}\text{F}$)
 - B. Humidity: 0% to 95%

2.5.0 Electrical Specification

1. Power Source: 12VDC, 24VAC
2. Power Consumption: 2.64W

² ACE: Adaptive Contrast Enhancement

³ ATR: Adaptive Tone Reproduction

3. Regulatory Approvals: FCC, CE

2.6.0 Mechanical Specification

1. Dimensions (W x H x D): 58mm x 52mm x 123mm (2.29" x 2.05" x 4.85")
2. Unit Weight: 0.3 Kg (0.66 lb)

Version History

Version	Writer	Revision Date	Remarks
1.0	Ray Sun	Jun. 2, 2016	Initial release