TC-S1283WHX

Architectural and Engineering Specifications

Version 1.0

(Jun. 30, 2017)

**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-S1283WHX is a HD-TVI WDR PTZ Camera designed and manufactured by IDIS. This camera provides Full HD 1920x1080 resolution. Also, this camera is compatible with AF zoom lens type with capability of DC Auto 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, 12VDC/24VAC and IP66 rated.

### General Specification

1. The HD-TVI camera shall be equipped with 2 Megapixel 1/2.8” CMOS Sensor for capturing Full HD images.
2. The HD-TVI camera shall be equipped with 4.3mm ~ 129mm auto-focus zoom lens.
3. 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).
4. 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.
5. The HD-TVI camera shall support wide pan (360°) and tilt (-10° ~ 190°) range as well as zoom up to 30x.
6. The HD-TVI camera shall utilize configurable 2DNR+3DNR(Dynamic Noise Reduction) technology to reduce the bitrate and storage requirements by removing noise artifacts.
7. The HD-TVI camera shall be IP rating 66 complied dome enclosure design.
8. The HD-TVI camera shall be equipped with Coaxial cable connection.
9. The HD-TVI camera shall use 12VDC/24VAC power input to supply power to the camera.
10. The HD-TVI camera shall have video out feature (NTSC/PAL).
11. The HD-TVI camera shall deliver maximum video resolution of 1920x1080 at 30ips(images per second).
12. 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.
13. The HD-TVI camera shall support Motion Detection functionality.
14. 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.
15. 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 through its UTC IC -Coaxial Cable.
16. The HD-TVI camera shall support HSBLC(Highlight Suppression Back Light Compensation) with 0~20 level adjustable. It makes stable video quality with preventing specific back light source from images.

## Technical Specification

### Video Specification

1. Image Sensor: 2 Megapixel 1/2.8” CMOS
2. Pixels:
	1. Effective Pixels: 1945(H) x 1097(V) / 2.13M
	2. Total Pixels: 1945(H) x 1109(V) / 2.16M
3. Maximum Resolution: 1920 x 1080
4. Scanning Mode: Progressive Scan
5. Lens Type: AF(Auto Focus) Zoom Lens (f=4.3mm~129mm)
6. Iris Control: DC Auto Iris
7. Angular Field of View: 65.1°(H) ~ 2.23°(H)
8. Minimum Illumination:
	1. Color: 0.35 Lux @ 50IRE
	2. B/W: 0.013 Lux @ 50IRE
9. Electronics Shutter Speed: Auto (1/30,000 ~ x8 sec), Manual
10. Maximum Frame Rate: 30ips@1920x1080
11. Video Resolution: 1920x1080 / 1280x720
12. Day & Night: Yes (ICR)
13. Video Output: 1 HD BNC, 1 SD BNC

### Functional Specification

1. AGC(Automatic Gain Control): 0~7 Level Adjustable
2. Brightness: 0~20 Level Adjustable
3. Sens-Up[[1]](#footnote-1): Off / x2 ~ x8
4. WDR
5. Selectable Options are Low, Middle, High and Off.
6. BLC(Back Light Compensation ): Off / On
7. HSBLC: 0~20 Level Adjustable
8. ACE[[2]](#footnote-2) (Digital WDR / ATR[[3]](#footnote-3)-EX): Off / Low / Middle / High
9. Motion Detection: Off / On
10. Privacy Masking: Off / On (16 Zone)
11. Day&Night: True D/N (Auto, Day, Night)
12. White Balance: Auto, Manual, Incandescent, Fluorescent, Outdoor
13. DNR: configurable 2DNR+3DNR (Off / Low / Middle / High)
14. Mirror: On / Off
15. Digital Zoom / Electric Zoom: x1 ~ x8
16. Sharpness: 0~10 Level Adjustable
17. De-fog: Off / On
18. GAMMA Correction: 0 ~ 4

## Environmental Specification

1. Out-door Ready: IP66
2. Operating Environment
	1. Temperature: -30°C ~ +55°C (-22°F ~ +131°F)
	2. Humidity: 0% to 90%
3. Storage Environment
	1. Temperature: -50°C ~ +55°C (-58°F ~ +131°F)
	2. Humidity: 0% to 90%

## Electrical Specification

1. Power Source: 12VDC, 24VAC
2. Power Consumption: 12.0W
3. Regulatory Approvals: FCC, CE

## Mechanical Specification

1. Dimensions (Ø x H): Ø234mm x 301mm (Ø9.2" x 11.8")
2. Unit Weight: 3.3 Kg (7.27 lb)

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.0 | Brandon Jo | Jun. 30, 2017 | Initial release |

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)
2. ACE: Adaptive Contrast Enhancement [↑](#footnote-ref-2)
3. ATR: Adaptive Tone Reproduction [↑](#footnote-ref-3)