TC-D4211RX

Architectural and Engineering Specifications

Version v1.2

(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-D4211RX is a DirectCX HD Analog Dome Camera that provides a 1920x1080 resolution. This camera is compatible with Fixed-focal lens type with capability of Fixed IRIS control. There are two types: 2.8mm Focal Length Camera and 4.0mm Focal Length Camera. This camera supports motion detection and privacy masking. This camera supports standard communication protocols and provides OSD which is available in various languages. This camera is equipped with Day&Night, IR LED and 12VDC.

### 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 2.8mm fixed-focal lens, F1.6.
3. The HD-TVI camera shall be equipped with 4.0mm fixed-focal lens, F1.6.
4. 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).
5. 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.
6. The HD-TVI camera shall be equipped with 24ea Infrared LEDs with range up to 15m (49.2ft).
7. The HD-TVI camera shall utilize configurable Dynamic Noise Reduction technology to reduce the bitrate and storage requirements by removing noise artifacts.
8. The HD-TVI camera shall be equipped with Coaxial cable connection.
9. The HD-TVI camera shall use 12VDC 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 support De-fog feature mode. It is the image compensation feature for the clear video in the mist or fog environment.
12. The HD-TVI camera shall support Motion Detection functionality.
13. 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.
14. 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.
15. The HD-TVI camera shall support HLC(Highlight Compensation) 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: 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: Fixed-focal (f=2.8mm & f=4.0mm)
6. Aperture : F 1.6
7. Iris Control: ELC (Electronic Level Control)
8. Angular Field of View
9. f=2.8mm: 106.5°(H), 57.5°(V), 122.7°(D)
10. f=4.0mm: 82.7°(H), 44.2°(V), 97.1°(D)
11. Pan / Tilt Range :

A. f=2.8mm

- Tilt : 7° ~ 90°

- Rotate : 0° ~ 360°

B. f=4.0mm

- Pan : 0° ~ 360°

- Tilt : -5° ~ 60°

- Rotate : 0° ~ 360

1. Minimum Illumination:
	1. Color: 0.1 Lux @ F1.6
	2. B/W: 0 Lux (IR LED On)
2. S/N Ratio: more than 50dB
3. Electronic Shutter Speed: Auto, Manual (1/30, 1/25 Sec ~ 1/30,000 Sec) and Flicker Mode
4. Day & Night: Yes (ICR)
5. IR Distance (LEDs): 15m / 49.2ft. (24ea)
6. Video Output: 1 HD BNC

### 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 Low, Middle, High and Off
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 (16 Zone)
9. Day&Night: Auto(AGC)/Color/B&W/EXTERN
10. Color: Set as during day time
11. B&W: Set as during night time
12. Extern: Day&Night mode changed according to external intensity sensor of illumination
13. Smart-IR (IR Optimizer): 0~20 Level Adjustable
14. White Balance: AUTO / AUTOext / PRESET / MANUAL (3,000K, 5,000K, 8,000K)
15. DNR: configurable OFF/LOW/MIDDLE/HIGH
16. Mirror: Mirror / Flip
17. Sharpness: 0~10 Level Adjustable
18. De-fog: Off / On
19. GAMMA Correction: r = 0.45 ~ 0.75
20. Language : ENG / CHN / CHN(S) / JPN / KOR

## 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: 12VDC
2. Power Consumption: 5W

## Mechanical Specification

1. Dimensions (W x H x D): Ø112.1mm x 88.3mm (Ø4.41" x 3.48")

# Version History

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| --- | --- | --- | --- |
| **Version** | **Writer** | **Revision Date** | **Remarks** |
| 1.2 | TS Team | June. 08. 2021 | Spec Update |
| 1.1 | Daniel Lee | Feb. 16. 2021 | Tilt angle modified |
| 1.0 | TS Team | Oct. 23. 2019 | 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)