

# IT-FHDCC01 Series

## Educational intelligent auto-tracking Camera

**IT-FHDCC01** series is a dedicated intelligent auto-tracking camera, with cutting-edge technology in the field of Education informatization. It includes a lecturer camera **IT-FHDCC01-T** and a student camera **IT-FHDCC01-S**.

**IT-FHDCC01** series is built-in with high-speed processor, advanced image processing and analysis algorithms to track lecturers and students accurately and quickly, which is in line with the requirements of lecturer capture and remote interactive teaching.

**IT-FHDCC01** series adopts advanced ISP technologies and algorithms, to make a vivid image quality, screen brightness uniformity, strong sense of depth, high-definition, and fantastic colour rendition.

As a stable, reliable and simple machine to operate, **IT-FHDCC01** series has full function and high performance. In addition, it is easy to install and maintain.



### Product advantages:

- Integrated design: built-in panoramic camera, to achieve an integrated fusion of panoramic camera and tracking camera.
- Advanced tracking algorithms: the use of advanced human detection, locking and tracking image processing, analysis algorithm to ensure the target tracking steady, accurate and fast.
- Strong anti-interference ability: Once the tracking target is locked, not affected by the disturbances of other moving objects and projectors etc.
- Smooth tracking: The sensitivity of action can be adjusted. Tracking target's small movement or gestures will not cause camera's miss-operation.
- Video image auto adaptation: Based on the distance of tracking target, the tracking camera will automatically zoom and the video image will always maintain the appropriate size and proportion.
- Strong environmental adaptability: The tracking performance is not affected by classroom's size, shape and seating arrangement.
- Ultra wide dynamic exposure function: to completely avoid the problem of tracking target darken under the strong light background of projectors etc.

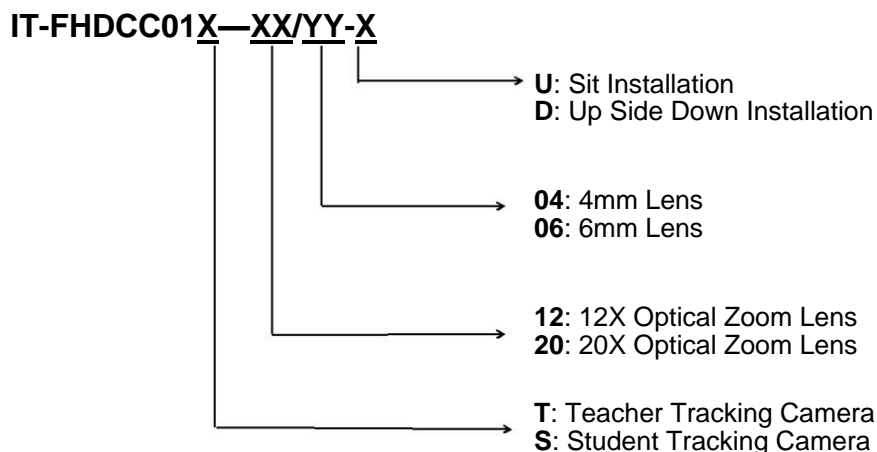
## Features

- Superb High-definition Image**  
 IT-FHDCC01 employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60 fps.
- Leading Focus Technology**  
 Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.
- Low Noise and High SNR**  
 Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is used to further reduce the noise, while ensuring image sharpness.
- Audio Input Interface**  
 Support 8000,16000,32000,44100,48000 sampling frequency and AAC, MP3, PCM audio coding.
- Wide-range, Quiet and Quick Pan/Tilt Mechanism**  
 By adopting step driving motor mechanism, IT-FHDCC01 camera works extremely quiet and moves smoothly without any noises.
- Multiple Video Compression**  
 Support H.264/H.264+ video compression. Support compression of resolution up to 1920x1080 with frame up to 60 fps and 2 channels 1920x1080p with 30 fps compression.
- Multiple Network Protocol**  
 Support ONVIF, RTSP, RTMP protocols and support RTMP push mode.
- Low-power Sleep Function**  
 Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.

## Order Series

Name Product: **IT-FHDCC01X**

**X/Y**: Variable letters and numbers



## Specification

Parameters/Model	IT-FHDCC01-T/S-12	IT-FHDCC01-T/S-20
<b>Tracking Camera and Lens Parameter</b>		
Sensor	1/2.8 inch high quality HD CMOS sensor	
Effective Pixels	2.07 megapixel; 16:9	
Video Signals	1080P60/50/30/25/59.94/29.97 ,1080I60/50/59.94,720P60/50/30/25 / 59.94 /2 9.97	
Optical Zoom	12x optical zoom f=3.9~46.1mm	20x optical zoom f=4.7~94mm
View Angle	6.3°(tele)~72.5°(wide)	2.9°(tele)~55.4°(wide)
Iris	F1.8 ~ F2.4	F1.6 ~ F3.5
Digital Zoom	X10	
Minimum Illumination	0.5Lux(F1.8, AGC ON)	
Digital Noise Reduction	2D & 3D digital noise reduction	
White Balance	Manual / Auto / One Push / 3000K / 3500K / 4000K / 4500K / 5000K / 5500K / 6000K / 6500K / 7000K	
Focus	Auto/Manual/One Push	
Aperture	Auto/Manual	
Electronic Shutter	Auto/Manual	
BLC	ON/OFF	
WDR	OFF/Dynamic Range adjustment	
Video Adjustment	Brightness, Color, Saturation, Contrast, Sharpness, Gamma curve	
SNR	>55dB	
<b>Panoramic Camera</b>		
Sensor	1/3 inch high quality HD CMOS sensor	
Effective Pixels	2.1 megapixel	
Lens	Manual Focus	
4mm Lens View Angle(D/H/V)	89.6°\71°\52.2°	
6mm Lens View Angle(D/H/V)	67.0°\59°\32.5°	
<b>Input/Output Interface and Protocols</b>		
Video Interface	SDI LAN	
Network Interface	100M network interface (10/100BASE-TX) 5G Wi-Fi (optional), Support VISCA protocol control through IP port	
Network Protocol	RTSP,RTMP,ONVIF,GB/T28181	
Compress Image Code Stream	Dual stream output	
Video Compress Format	H.264,H.265	
Control Signal Interface	RS-232 Input	
Control Protocol	VISCA / PELCO-D / PELCO-P Baud Rate:115200/9600/4800/2400bps	
Audio Input Interface	Dual audio channel 3.5mm linear input	
Audio Compress Format	AAC,MP3,PCM	
Power Interface	HEC3800 power jacket(DC12V)	
<b>Pan Tilt Parameter</b>		
Pan Rotation	-170°~+170°	
Tilt Rotation	-30°~+90°	
Pan Control Speed	0.1 ~ 100°/s	
Tilt Control Speed	0.1~45°/s	
Preset Speed	Pan: 100°/s,Tilt:45°/s	
Preset Number	User can set up to 255 presets (remoter 10 presets)	
<b>Other Parameters</b>		
Supply Adapter	Input AC110V-AC220V to DC12V/2.5A	
Input Voltage	Output DC12V±10% POE power supply optional	
Input Current	1.5A (Max.)	
Consumption	18W (Max.)	
Store Temperature	-10°C~+60°C	

<b>Store Humidity</b>	20%~95%
<b>Working Temperature</b>	-10°C~+50°C
<b>Working Humidity</b>	20%~80%
<b>Dimensions (WxHxW)</b>	254mm x 144mm x 174mm
<b>Weight (appr.)</b>	1.54kg
<b>Application</b>	Indoor
<b>Remote Maintenance (LAN)</b>	Remote Update, Remote Reboot, Remote Reset
<b>Accessory</b>	12V/2.5A power supply adapter, RS232 control cable, Remote Controller, User Manual, Warranty Card, brackets (optional)

### Dimensions (Unit mm)

