

IT-VCHD8000-TC



Main Features

● All-in-One Design

All-in-One design, can output 5 channel HD video (3 channel for close-up camera, 2 channel for panorama camera) at the same time. both teacher tracking and student tracking are use the same device.

● Changeable Lens

Panorama camera can replace the lens, compatible C/CS mount lens, easy to use for different size classroom.

● Adjustable Viewing Angle

Panorama camera can adjust viewing angle in vertical(-25° ~ +15°), convenient installation and debugging.

● High Efficient Traking

Built-in image recognition and tracking algorithms, can be tracking realized without any auxiliary camera or tracking host.

● Same Image Style

Both panorama camera and close-up camera use the same ISP, make sure the image output have the same brightness, color, style, etc.

● Easy Configuration

Easy to make a configuration for tracking, direct connect by Ethernet, just need make some base parameters for configuration, large engineering debugging time and cost will be save.

● 72.5° Wide-angle Lens + 16x Digital Zoom

Close-up camera use 72.5° wide-angle high quality lens, support 12x optical zoom, and 16x digital zoom (optional).

● H.265 Support

H.265 encoding support, enabling full HD 1080p video stream by ultra-low bandwidth.

● 1080P Full HD

Apply Panasonic's 1/2.7 inch, 2.07 million effective pixels high quality HD CMOS sensor, can reach maximum 1920 x 1080 high resolution and achieve quality image.

● Ultra-high Frame Rate

The output frame rate up to 60fps in 1080P.

● AAC Audio Encoding

Close-up camera support AAC audio encoding, better sound quality and smaller bandwidth.

● Local Storage

Close-up camera support local storage module, directly recording to local USB flash disk without NVR.

● Low-light

High SNR of CMOS sensor combined with 2D and 3D noise reduction algorithm, effectively reduce the noise, even under low illumination conditions, picture can still keep clean and clear.

Close-up Camera

Video System	HD: 1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25, 640x480p/240
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens	12x, f3.5mm ~ 42.3mm, F1.8 ~ F2.8
Digital Zoom	16x (optional)
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K_1, 6500K_2, 6500K_3, One Push, Manual
Backlight Compensation	Support
Digital Noise Reduction	2D&3D Digital Noise Reduction
Video S/N	≥55dB
Horizontal Angle of View	72.5° ~ 6.9°
Vertical Angle of View	44.8° ~ 3.9°
Horizontal Rotation Range	±170°
Vertical Rotation Range	-30° ~ +90°
Pan Speed Range	1.7° ~ 100°/s
Tilt Speed Range	1.7° ~ 69.9°/s
H & V Flip	Support
Image Freeze	Support
Local Storage	Support
Number of Preset	255
Preset Accuracy	0.1°

Input/Output Interface

HD Output	1xHDMI: Version 1.3 2x3G-SDI: BNC type, 800mVp-p, 75 Ω, Along to SMPTE 424M standard
Network Interface	2xRJ45: 10M/100M Ethernet Interface
Audio Interface	1-ch: 3.5mm Audio Interface, Line In
USB	1xUSB2.0: Type A female jack
Communication Interface	1xRS232 In: 8pin Min DIN, Max Distance: 30m, Protocol: VISCA/Pelco-D/Pelco-P (for close-up camera) 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, VISCA network use only (for close-up camera) 1xRS232 Out: 8pin Min DIN, Max Distance: 30m, use for control close-up camera (for panorama camera) 1xRS485: 2pin Phoenix Port, Max Distance: 1200m, Protocol: VISCA/Pelco-D/Pelco-P (for close-up camera)
Power Jack	JEITA type (DC IN 12V)

Generic Specification

Input Voltage	DC 12V
Current Consumption	1.5A (Max)
Operating Temperature	-10°C ~ 40°C (14°F ~ 104°F)
Storage Temperature	-40°C ~ 60°C (-40°F ~ 140°F)
Power Consumption	18W (Max)
MTBF	>30000h



Panorama Camera

Video System	1080p/60, 1080p/50, 1080i/60, 1080i/50, 1080p/30, 1080p/25, 720p/60, 720p/50, 720p/30, 720p/25
Sensor	1/2.7", CMOS, Effective Pixel: 2.07M
Scanning Mode	Progressive
Lens Mount	C/CS Mount
Auto Iris	DC Driver
Minimal Illumination	0.5 Lux @ (F1.8, AGC ON)
Shutter	1/30s ~ 1/10000s
White Balance	Auto, 3000K/Indoor, 4000K, 5000K/Outdoor, 6500K_1, 6500K_2, 6500K_3, One Push, Manual
Day-night Mode	IR cut filter with auto switch
Digital Noise Reduction	2D&3D Digital Noise Reduction
Backlight Compensation	Support
Image Freeze	Support
Ceiling Installation	Support

Network Features

Video Compression	H.265 / H.264 / MJPEG
Video Stream	Main Stream, Sub Stream
Main Stream Resolution	1920x1080, 1280x720, 1024x576
Sub Stream Resolution	720x576, 720x480, 320x240
Video Bit Rate	128Kbps ~ 8192Kbps
Bit Rate Type	Variable Rate, Fixed Rate
Frame Rate	50Hz: 1fps ~ 50fps, 60Hz: 1fps ~ 60fps
Audio Compression	AAC
Audio Bit Rate	96Kbps, 128Kbps, 256Kbps
Support protocols	TCP/IP, HTTP, RTSP, RTMP, Onvif, DHCP, Multicast, etc.