DH-VCS-TS51A0

Integrated Full-HD Video Conferencing Endpoint

· Built-in MCU, supports max 4 sites 30fps @ 1080P, or 6 sites 30fps @ 720P
· Integrated design, 60fps @ 1080P and 12x optical PTZ camera
· Latest H.265 video encoding protocols provide ultimate full HD image under ultra-low bandwidth
· Unique anti-packet loss technology ensures normal operation of audio and video in the event of a 30% packet loss
· Standard H.323 and SIP protocols. Record meetings onto USB drive
· Provides a variety of conference call modes and installation modes, making it simple to operate and easy to maintain

| 1080p FULL HD | 30% | SIP H.323 | 6 MCU | | OPUS | USB | |

System Overview

The TS51A0 integrated full-HD video conferencing endpoint is a flagship video conferencing system and an ideal choice for small to mid-size meeting rooms. It adopts an integrated, compact, and exquisite design featuring a camera and codec. The endpoint supports dual 1080P full-HD image and OPUS audio coding technology, bringing you a life-like face-to-face experience.

Functions

Powerful built-in MCU

Embedded with a powerful MCU, the TS51A0 lets you create meetings without requiring the purchase of external expensive MCUs (Multi-point Control Units). The endpoint supports 4 sites 30fps @ 1080P or 6 sites 30fps @ 720P, which perfectly satisfies the needs of video conferences and enables efficient communication.

All-in-one Design, easy to deploy

The TS51A0 is a compact system combining a full-HD camera and codec. Its elegant design enables support for hanging mounts, wall mounts, and pendants, making it easy to deploy.

Outstanding full-HD PTZ camera

Benefiting from a 1/2.8" 2.1MP CMOS sensor, the TS51A0 delivers a 60fps @ 1080P full-HD image. The TS51A0 features a fast, accurate, and stable auto vari-focal lens with up to 12x optical zoom, allowing for viewing wide angle images at a distance.

Strong network adaptability provides seamless experience for low-bandwidth connections

Thanks to our unique anti-packet loss technology, TS51A0 ensures normal operation of audio and video in the event of a 30% packet loss or 800ms delay. By supporting a new generation of H.265 encoding technology, the device adapts to different networking requirements and provides a 1080P full-HD image over low bandwidth connections.

Open standard, compatible interoperability

Conforming to ITU-TH.323 and IETF SIP communication standards, the TS51A0 supports industry standard A/V encoding technologies and achieves seamless interconnection with products that meet international standards. Meanwhile, it achieves integration with security products which conforms to industry standard.

Rich functionality delivers easy use

TS51A0 can connect to networks via Wi-Fi, making it easy to adapt to various meeting scenarios. An LED screen displays meeting site information (IP address) in real-time, providing easy maintenance.

Record meetings onto USB drives

Powerful meeting recording enables you to archive real-time meetings, which is crucial for meeting reviews. With the TS51A0, all you need is a USB drive to record meeting video.

Accurate real-time information sharing

TS51A0 supports 1080P full-HD dual stream to simultaneously transmit and receive video and documents. The device allows users to share and edit documents, PPTs, and other informationin real-time, providing effective visual communication.

Technical Specifications

Built-in MCU

Multi-point Capability	4 sites 30fps @ 1080P, or 6 sites 30fps @ 720P

Video Features

Video Codec	H.265, H.264 SVC, H.264HP and H.264BP
Video Resolution	Main stream: 1080P, 720P, D1
	Demo stream: 1080P, 720P, D1
Frame Rate	5~60fps
Video Bitrate	128kbit/s to 8Mbit/s
Dual Stream	Dual 1080p

Audio Features

Audio Codec	OPUS, MP3, AAC-LC, G.719, G.711a and G.711u
Audio Processing	AEC (Acoustic Echo Cancellation), AGC (Automatic Gain Control), ANS (Automatic Noise Suppression), Self-Adaptive Post-filtering, Audio Error Correction and Lip Sync

Camera Features

Image Sensor	1/2.8" 2.1MP CMOS
Lens	Horizontal Angle: 73°, Zoom: 12x Optical Zoom
Frame Rate	30/60fps @ 1080P, 30/60fps @ 720P
Pan/Tilt	Pan:-120° ~ +120° Tilt:-30° ~ +30°

Communicaton & Security

Communicaton Protocols	ITU-T H.323, IETF SIP
Transmission Protocols	IPv4, TCP/IP, RTP, SRTP, RTCP, HTTP, DNS, NTP and DHCP
Other Protocols	H.225, H.235, H.245 and H.460

Network Feature

Network Packet Loss Tolerance	In the event of a 30% packet loss, the conference audio and video is unaffected
Network Delay Tolerance	Normal conference processing for up to 800ms delay

Interfaces

Video Inputs	1 x VGA, 1 x built-in camera input
Video Outputs	2x HDMI
Audio Inputs	2 x 3.5mm audio jack, 1 x USB
Audio Outputs	2 x HDMI, 1 x 3.5mm audio jack
USB Interfaces	2 x USB 2.0 host
Network Interfaces	1 x RJ45 10/100/1000M self-adaptive network port

Certifications

Certifications	CE (EN55032, EN50130-4, EN301489-1, EN301489-17, EN300328, EN62311) FCC (CFR 47 FCC Part 15 subpartB, 2016) UL (60950-1 & CAN/CSA C22.2 No. 60950-1-07)

Electrical

Power Supply	DC 12V, 3A
Power Consumption	<=36W

Environmental

Operating Conditions	0°C ~ +45°C (+32°F ~ +113°F)/ 10%~80% RH * Start up should be done at above 0°C (+32°F)
Storage Conditions	-40°C ~ +70°C (-40°F ~ +158°F) / Less than 95% RH

Construction

Dimensions	245.0mm x 165.2mm x 156.0mm (9.65" × 6.50" × 6.14")
Net Weight	2.5kg (5.51lb)
Gross Weight	6.0kg (13.22lb)

Ordering Information

Type	Part Number	Description
Endpoint	DH-VCS-TS51A0	Integrated Full-HD Video Conferencing Endpoint

Rear Panel