

IT-VCHD90-PRO



Main Features

● All-in-one Design

All-in-one design, Camera + Video Conferencing System built-in-one device, simple to use. Support external microphone, small size, easy to install.

● 72.5° Wide-angle Lens

Use 72.5° wide-angle high quality lens, support 12x optical zoom.

● Standard protocols, fusion

Support the standard SIP, H.323 protocol, adapted the industry mainstream standard terminal and the network side device.

● Low bandwidth, high-definition

Support for the latest H.264 coding standard H.264, about 50% less bandwidth requirements compare with previous encode standard.

● High network adaptability and security

Support H.460 through firewall technology, solution and solve the safety of the public and private network connection. Support multiple encryption protocol, such as H.235, HTTPS, TLS etc, omni-directional protect the communication security.

● 1080P Full HD

Support 1080P Full HD video, except built-in HD camera, support another (DVI-I: HDMI, VGA/YPbPr) HD video input. Support 2 channel HDMI for output.

● Base on embedded DSP solution

Base on embedded DSP hardware solutions, RESTful API runtime environment, support custom UI and third-part applications, the development of applications that can be deployed inside the terminal or external.

● Open SDK

Full open SDK, provides powerful media processing engine, support the development of third-party protocols and applications, easy to implement secondary development for customers.

● Built-in HD MCU (optional)

Support built-in MCU, max to 1 + 3 mode. Very appropriate to use video conference on the small and medium-sized enterprises, low-cost, simple maintenance and so on.

● Built-in VPN

Support built-in VPN (Server / Client) application, can implement private network without a private network.

System Units

Include Packages	
	• HD codec (built-in HD camera) x 1
	• Omni-array microphone (pick up distance: >= 5m) x 1
	• Remote control x 1
	• AC power adapter x 1
	• AC power cable x 1
	• HDMI cable (1.5m) x 2
	• XLR jack to 3.5mm jack cable x 1
	• User manual (Quick Start, Quick Installation Guide) x 1

Standard and protocols

Standards and protocols	ITU-T H.323, IETF SIP
Video Standards and protocols	H.261, H.263, H.263+, H.263++, H.264, H.264 High Profile
Audio Standards and protocols	G.711, G.722, G.722.1*, G.722.1C*, AAC-LD, G.723.1, G.726, G.728, SILK
Dual Stream	ITU-T H.239, BFCP
Other Standards	H.221, H.225, H.235, H.241, H.245, H.281, H.350, H.460, T.140, DTMF
Network Standards and protocols	TCP/IP, DHCP, SSH, HTTP, HTTPS with SSL/TLS, RTP, RTCP, RFC3261, RFC3264, RFC2190, RFC3407, RFC2833, RFC4585(RTP/AVPF), SNTP, ARP

Video Specifications and Features

People Video Resolution	<ul style="list-style-type: none"> • 1080p, Guaranty bandwidth: 512Kbps • 720p, Guaranty bandwidth: 384Kbps • 4SIF/4CIF, Guaranty bandwidth: 128Kbps • SIF/CIF/QSIF/QCIF/SQSIF/SQCIF, Guaranty bandwidth: 64Kbps
Content Video Resolution	<ul style="list-style-type: none"> • Input: VGA (640x480), SVGA (800x600), XGA(1024x768), WXGA(1280x768), WXGA (1280x800), 1280x960, SXGA(1280x1024), 1360x768, 1366x768, 1440x900, XGA+(1400x1050), 1600x900, 1600x1200, 1680x1050, 720p(1280x720), 1080p(1920x1080) • Coding/Decoding Resolution: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080 • Output: 800x600, 1024x768, 1280x1024, 1280x720, 1920x1080
Dual Stream	Dual 1080p or dual 720p
Built-in 1080p HD Camera	<ul style="list-style-type: none"> • Video input pixels: 1080p • Sensor: 2.07 mega effective pixel, 1/2.7-inch CMOS • Zoom: 12x optical zoom • Maximum horizontal angle: 72.5° horizontal field of view • Panning/Tilting angle: +/-170° pan, -30° ~ +90° tilt • Automatic White Balance (AWB), Automatic Exposure (AE), Automatic Focus (AF) • Far-end camera control • Upside-down mounting with automatic flipping of picture • Number of preset positions: 10
Other Video Features	PIP (Picture in Picture), PoP (Picture outside Picture)

Application Features

Languages	Simplified Chinese, Traditional Chinese, English, Polish etc.
Approval and Compliance	<ul style="list-style-type: none"> • 1000 local address book • LDAP/Network address book, H.350
Special Features	<ul style="list-style-type: none"> • Audio associated with presentation • Support "SameView" • Timing power on and power off • Automatic standby and wake up on incoming call • Support DNS SRV • Incoming call password • Asymmetric bandwidth • Built-in VPN • Automatic to get static NAT address • PIP: 1/16 picture size, optional position • Split output: Bi-screen and tri-screen display • Network address book • Support SDK API • Built-in MCU (optional) • Support web-based conference management • Support USB microphone • Remote Control: H.224, H.281 • Remote upgrade by network

Interfaces

Audio Input	1 x 3.5mm line-in jack, 1 x 3.5mm mic-in jack, 1xRJ45 digital mic-in jack
Audio Output	1 x 3.5mm line-out jack, 1 x HDMI audio output
Video Input	1 x DVI-I (HDMI, VGA/YPbPr)
Video Output	2 x HDMI
USB Interface	2 x USB2.0 Host (support USB flash disk, USB microphone etc.)
Network Interface	1 x RJ45: 10/100 Base-T



Audio Specifications and Features

Audio features	<ul style="list-style-type: none"> • AEC (Acoustic Echo Cancellation) • AGC (Automatic Gain Control) • ANS (Acoustic Noise Suppression) • Lip synchronization
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Security and Stability

Network	FEC (Forward Error Correction), ARQ (Automatic Repeat-reQuest) etc.
Security	<ul style="list-style-type: none"> • H.235 (AES) signaling and media stream encryption • Administrator password, SSH/HTTPS
Firewall Traversal	H.460.18/19, H.460.23/24, ICE

Bandwidth

IP	64kbps ~ 8Mbps
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Cloud Integrate



Physical Characteristics

Dimensions	<ul style="list-style-type: none"> • Codec dimensions (L x W x H): 240mm x 148mm x 157mm • Package dimensions (L x W x H): 304mm x 248mm x 257mm • Net weight: 1.8Kg • Package weight: 2.6Kg
Electrical	<ul style="list-style-type: none"> • Working voltage: AC 100V ~ 240V, DC 12V • Working frequency: 50/60Hz • Power consumption: 24W
Environmental Specification	<ul style="list-style-type: none"> • Operating temperature: 0°C to 40°C • Operating humidity: 10% to 80% • Non-Operating temperature: -40° to -70°C • Non-Operating humidity (non-condensing): 0% to 95% • Peripheral noise: < 46 dBA SPL • Lowest luminance: 5 lux • Recommended luminance: > 300 lux*
Approval and Compliance	CE, RoHS, WEEE, REACH, UL, FCC, CCC