H700
Full High Definition Videoconferencing Terminal

H700 is a full HD videoconferencing terminal with outstanding smooth and stable motion video quality, crystal clear audio effect and excellent dual stream presentation capability. With its industrial AV interfaces for excellent coordination, characteristics and performance, the H700 HD videoconferencing system will provide you with real life and pleasant audiovisual experience.

Features

Extraordinary Clear and Sharp Video Quality

Highly powerful integrated CPU image processing and H. 264 High Profile technologies make HD video performance ever faster with up to 1080P/60fps @ 2 Mbps for an exceptional High-Definition resolution quality.

Audio Effects

Support MPEG4-AAC, G.719, G.722.1C, MP3 and many more protocols for superior digital audio effect.

HD Interfaces

These well-known industry standard interfaces allow simplicity and attainability in designing medium and large conference rooms and connecting to peripheral equipments such as digital and analogue audio systems.

HD Dynamic Dual Streams

Kedacom's HD terminals are incorporated with the standard H.239 full dynamic dual stream and static stream functions, as well as dual-channel of up to UXGA/SXGA/WXGA/XGA/SVGA/VGA full dynamic video streams.

Strong Network Adaptability

H700 supports H.264 High Profile capability with reliable automatic IP redundancy backup between the two Ethernet port connections, which will prevent important meeting from network interruption and also flexibly provide system deployment over diversified networks. Built-in proxy for firewall/NAT traversal, intelligent Lost Packet Recovery, dynamic rate adjustment, QoS and other network enhancement mechanism will optimize the network connectivity to improve video communication quality.

Security and Reliability

The terminal is built-in with its 128-bit AES hardware encryption functions and multiple redundancy mechanism based on the embedded system architecture, the terminal possesses and delivers the best systemic security and reliability to hold conferences with more confidence. Gatekeeper H.235 protocol realizes the authentication and authorization for security management.

Complete High-Definition Solution

With KEDACOM fast-growing videoconferencing product range, you can build a complete Full High-Definition videoconferencing system using our entire solution that spans from terminal to MCU, Recorder and T.120 data sharing, from conference management to system maintenance tools.

Technical Specification

Protocol Standards

System standard: H.323, SIP

Video standard: H.263, H.263+, H.264, H.264 High-Profile, MPEG-4

Audio standard: G.711, G719, G.722, G.728, G.729, G.722.1 Annex C/Polycom7 Siren14TM, MP3, MPEG4-AAC (LC/LD)

Network protocols: TCP/IP, Telnet, HTTP, FTP, SNMP, DHCP, RTP/RTCP, PPPoE, NTP

Other standards: H.225, H.235, H.239, H.241, H.242, H.243, H.245, H.281, T.120, T.140

Conference Rate

High-Definition conference: 512Kbps~8Mbps

Standard Definition conference: 64Kbps~8Mbps

Models

H700: 1080P@60fps Decoding, 1080P/30f Encoding

Resolution

Resolution of video images:

1080P (1920x1080)

720P (1280x720)

4CIF (704x576)

CIF (352x288)

QCIF (176x144)

Resolution of PC contents:

UXGA (1600x1200)

SXGA (1280x1024)

XGA (1024x768)

SVGA (800x600)

VGA (640x480)

Video Input / Output

HD Interface: DVI-I (HDMI, YPbPr and VGA)

SD Interface: Composite

Video Features

Status display

User define logo

Support PAL/NTSC

Adjustable brightness, saturation and contrast

Dual-stream Features

Support H.239 standard dual video stream protocol

Support dual-video, dual-display panel output

Support bandwidth adjustment

Audio Input / Output

HDMI Audio

RJ11 Digital Microphone

XLR 48V Phantom Power

RCA

DVI-HDMI Digital Audio

6.35mm Stereo

Audio Features

Audio sampling frequency: 48 KHz

AEC (Automatic Echo Cancellation)

ANS (Ambient Noise Suppression)

AGC (Automatic Gain Control)

ALS (Automatic Lip Synchronization)

Mute and Dumb control

Control Interface

One RS422

One RS232

Infrared remote control (Linkage for control using HD85D, 90D, 95D Cameras)

VOD

Access broadcast server for VOD

Network Interface

IP: 10/100/1000M Ethernet interface

Other Interface

USB

Network Features

Embedded Proxy for Firewall/NAT traversal

Intelligent packet loss recovery

Automatic data line backup

Dynamic rate adjustment

QoS (DiffServ, IP Precedence)

Adjustable MTU value

Automatic repeat attempt upon disconnection

Auto-detection of IP conflict

Automatic gatekeeper discovery and registration

Automatic PPPoE dial-up

Conference Function

Point-to-point and multi-point conferences

Short message sending to MCU or other endpoints

Scroll text, varieties of fonts and color text

Conferencing request features including joining conference, speaker, chairing and chiming in

Support calls through E.164 number, alias name, and IP address

Security Features

H.235-based conference encryption flow

Built-in 128-bit AES hardware encryption

Conference password protection

Local logon and authorization

Built-in firewall

H.235 gatekeeper password authentication

Management and Diagnosis Features

Support SNMP

PC Web browser access for local operations

Support online configuration and upgrade via Telnet/FTP/Web/NMS

Support event log and management functions

Support status monitoring, and alarm display and transmission

Address book management

Electricity Characteristics

Power consumption of integrated system: ≤80W

Adapter power supply: AC (100~240V/50~60Hz)

Environmental Requirement

Operating temperature: 0°C ~ 45°C

Operating humidity: 10%~90% (non-condensing)

Atmospheric pressure: 70~106kPa

Physical Specifications

19-inch 1U standard rack mount design

Dimensions: 44mm (H) x 443mm (W) x 360mm (D)

（Back View）