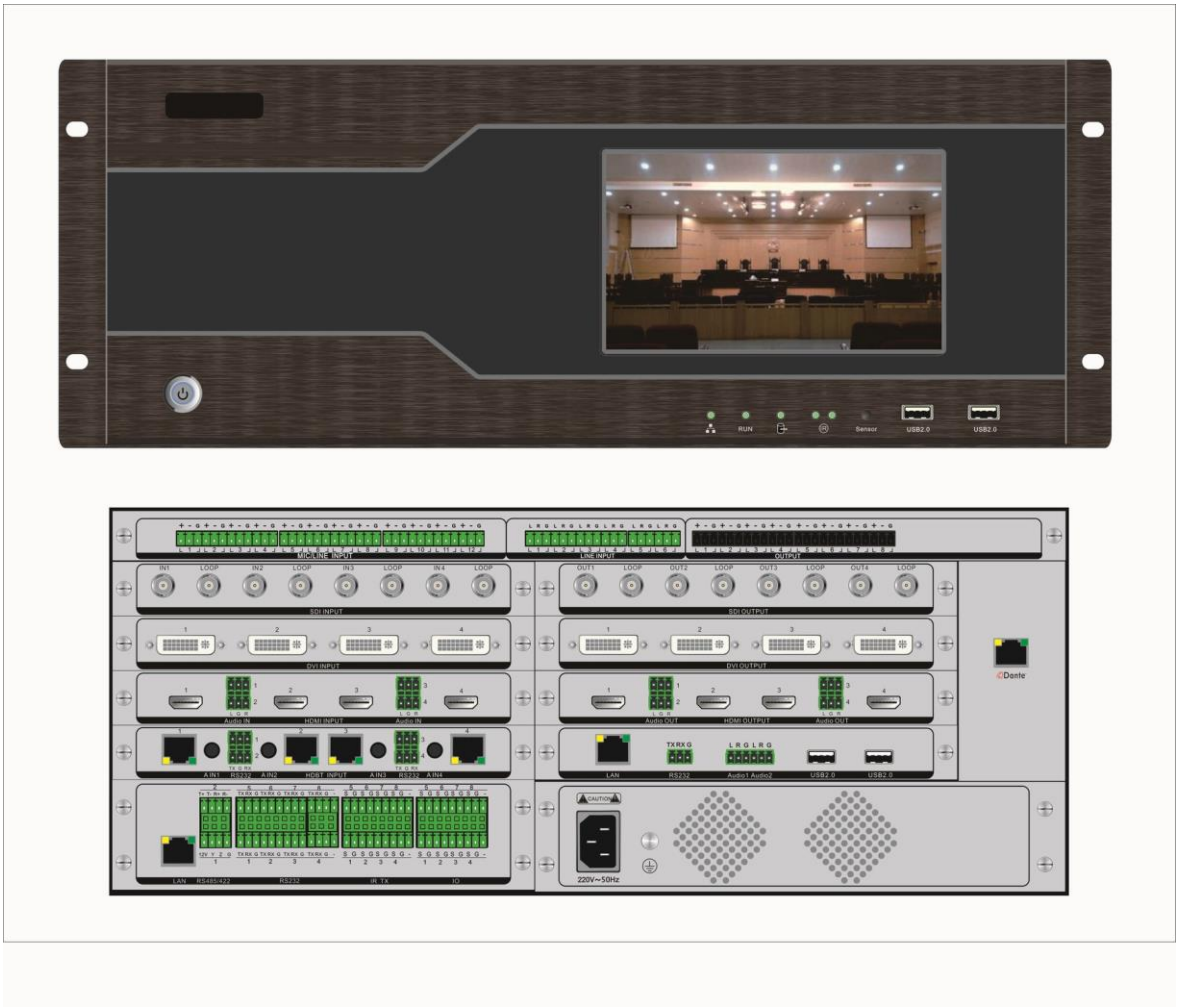
QG-4U16F Datasheet

Courtroom Integrated Host



Overview

The unit is a 4U integration host for court hearings and remote interrogation. Evidence signals, camera feeds and remote terminal pictures are switched, composed, encoded, recorded and stored in one chassis. Sixteen inputs and sixteen outputs are carried on hot-swap channel cards, with six SDI camera inputs and loop-through outputs.

Key Features and Benefits

16 x in, 16 x out, card-based

Four input and four output slots, four channels per card, hot swappable. Reserved slots for a 4-encoder 2-decoder expansion card.

Interfaces for courtrooms

6 x 3G-SDI camera inputs with loop outputs, 4 x DVI-I evidence inputs plus 2 x HDMI evidence inputs, 8 display outputs.

Courtroom audio processing

12 microphone inputs with 48V phantom power, echo, howling and noise suppression plus 10-band EQ. Voice-activated courtroom switching and motion-detection switching for evidence.

10-channel synchronized recording

2TB built in, up to 8TB per disk and external DVD burner recording. Multi-task segmented recording with automatic FTP upload.

Remote hearing and public live cast

H.323/SIP/RTSP/RTMP remote hearings, built-in 4-party conferencing. Third-party platform streaming with QR-code viewing for public hearings.

7-inch touchscreen management

Front-panel preview and menu operation, B/S, C/S and GUI interfaces, browser-editable control pages.

Specifications

Enclosure and construction	
·	4U chassis, 19 in rack mount, card-based construction
·	7 in touch panel on the front for preview and menu operation
·	Four input slots and four output slots, four channels per card, 16 inputs and 16 outputs per unit
·	Channel cards hot-swappable for maintenance and expansion while running
Connections and capacity	
·	Six 3G-SDI camera inputs and six 3G-SDI loop-through outputs
·	Four DVI-I inputs for evidence and clerk workstations
·	Two HDMI evidence inputs
·	Four DVI-I display outputs
·	Four HDMI display outputs
·	OSD text overlay on any output channel
·	Twelve microphone inputs with 48 V phantom power
·	Six stereo line inputs
·	Four channels of decoded audio return
·	Eight balanced audio outputs
·	Built-in 2 by 2 Dante module, two channels in and out
·	Eight IR emitter ports and one IR learning input
·	Eight RS-232 serial ports
·	One RS-485 and one RS-422 port
·	Eight general purpose I/O ports
·	Two USB ports for an external optical drive and on-the-fly archiving
Audio	
·	Echo cancellation, feedback suppression, steady noise suppression and ten-band EQ
·	Voice activation drives the picture cut
·	Voice alteration on microphone channels
Encoding, recording and composition	
·	H.265 and H.264 video, AAC and G.711 audio
·	Resolution, bitrate and sample rate set per channel
·	Ten channels of synchronised audio and video encoding
·	Four channels of audio and video decoding
·	Reserved slots for four additional encoding and two decoding channels
·	Subtitle and station logo overlay
·	Privacy masking with mosaic over the masked area
·	Motion detection triggering an automatic cut
·	Two independent composition engines
·	More than twenty built-in layout templates covering 2, 4, 6 and 8-way split, with on-site customisation
·	Ten or more transitions including wipe, dissolve, push and cut through black
·	Composition output up to 4K, configurable
·	Interrogation protocols H.323, SIP, RTSP and RTMP
·	Built-in four-party conference with address book and group calling
·	2 TB internal storage, single drive replaceable to 8 TB
·	Ten channels of synchronised audio and video recording

·	Recording start by manual trigger, schedule or power-on
·	FTP upload by manual trigger, schedule or on recording end
·	Live streaming, video on demand, file browsing, download and delete
·	Multi-job segmented recording
·	Recordings in MP4, played back directly from a local output
·	Push to third-party platforms for public hearing broadcast with a viewing QR code
Protocols and management	
·	TCP, UDP, RTSP, RTP, RTMP, ONVIF, H.323, SIP and HTTP
·	Management through browser, client software and local GUI
·	Eight channels of live HD preview with click-to-switch
·	Preview magnification on any output channel
·	Scene storage and recall by number
·	Audio level control for microphones, amplifiers, recording and remote terminals
·	Embedded audio follows the video through a switch
·	Control pages edited online with images, text and buttons
·	Keyboard and mouse over the KVM path to the host management interface
·	Voice activation cuts the hearing picture automatically
·	Motion detection cuts to the evidence picture automatically

Ordering Information

Model	Description
QG-4U16F	Courtroom integrated host, 16 x in, 16 x out, card-based

Company Information

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