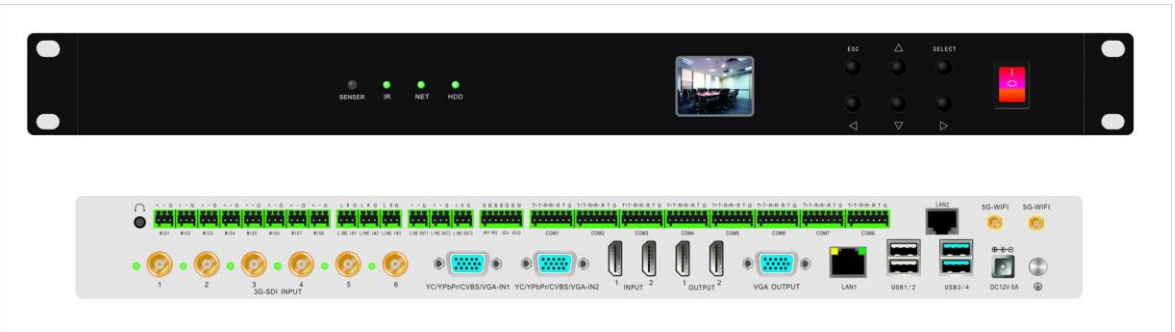
QG-1U6L Datasheet

Recording Integrated Host



Overview

The unit is a 1U aluminium integration host for lecture capture. Recording, streaming, video on demand, direction, storage and live switching run in one chassis. It provides ten video inputs, three outputs, one 4K encoding channel or seven 1080p channels, four decoding channels and 4K composition.

Key Features and Benefits

10 x in, 3 x out hybrid interfaces

6 x 3G/HD-SDI, 2 x HDMI (1 x 4K), 2 x VGA (shared with YPbPr/CVBS/S-Video). Output: 2 x HDMI (1 x 4K) and 1 x VGA.

1 x 4K or 7 x 1080P30 encoding

Plus 2 independent audio capture channels. Video bitrate 32Kbps to 16Mbps, adjustable per channel, H.265/H.264.

7-stream live storage

2TB built in, up to 8TB per disk. Movie mode and movie-plus-resource mode record at the same time, multi-task segmented.

Built-in director console

9 fixed layouts and 3 custom single-layer layouts; manual, fully automatic and semi-automatic modes switch at any time. PTZ with 8 presets.

Interaction and live casting

RTSP/H.323/SIP/RTMP interaction for at least four parties. TS multicast and internet live casting in parallel, 10 concurrent on-demand viewers, QR-code viewing.

Course packaging

Course information, caption, opening and ending overlay. FTP upload after recording, on schedule or from a USB drive.

Specifications

Enclosure and construction	
·	1U aluminium chassis, 19 in rack mount
·	1.5 in display and menu keys on the front with image preview

Connections and capacity	
·	Ten video inputs: six 3G/HD-SDI, two HDMI (one 4K), two VGA shared with YPbPr, CVBS and S-Video
·	Three HD outputs: two HDMI (one 4K), one VGA at 1080p
·	Eight microphone inputs with phantom power
·	Three stereo line inputs
·	Four line outputs and one 3.5 mm local monitor output
·	Eight RS-232, RS-485 and RS-422 control ports
·	Two relay outputs and two IR outputs
·	Four USB ports, one of them USB 3.0
·	Two RJ45 ports: one host communication, one audio processor communication
Encoding and decoding	
·	One 4K encoding channel, or seven 1080p30 channels
·	Two independent audio capture and encoding channels
·	Four 1080p30 decoding channels
·	H.265 and H.264 (HP, MP, BP) video, AAC-LC and G.711 audio
·	Recordings in MP4
·	Video bitrate 32 kbps to 16 Mbps, audio sample rate 8 to 48 kHz, audio bitrate 8 to 320 kbps
Composition and layout	
·	One 4K composition and one remote decoded composition
·	Layout modes: 2, 4, 6, 8-way split and custom
·	Composition resolution 4K or 1080p, configurable
·	Ten or more transitions
·	Nine fixed layouts and three custom single-layer layouts
Audio	
·	Optional audio processing module: mixing, echo cancellation, feedback suppression and noise suppression
Conferencing and streaming	
·	Remote interaction over mixed RTSP, H.323, SIP and RTMP, four parties or more
·	Protocols: TCP, UDP, RTSP, RTP, RTMP, ONVIF, H.323, SIP and TS
·	Seven channels of live recording to storage
·	Web and director interface for file browsing, download and delete
·	TS multicast streaming for multi-terminal viewing on the local network
·	Internet live streaming with a viewing QR code
·	Browser management plus a local GUI over the HDMI and VGA outputs
·	Seven channels of HD live preview, one director preview, one remote composition preview
·	Direction modes: manual, fully automatic and semi-automatic, switchable at any time
·	Recording modes: cinema mode and cinema plus resource mode, running together
·	PTZ control with eight presets, pan, tilt and zoom
·	Built-in four-party conference over SIP, H.323, RTSP and RTMP
·	Ten concurrent on-demand and live viewers
·	Course information, subtitle, opening and closing titles overlaid
·	Storage 2 TB internal, single drive replaceable to 8 TB
·	FTP upload and download on recording end, on schedule or from a USB drive
·	Recording triggers: power-on, schedule, manual and timetable linked

Interfaces

Port	Qty	Connector	Typical use
HDMI inputs	10	2 slots x 4 channels plus 2 on board	Cameras, PCs, evidence sources
HDMI outputs	3	1 slot x 4 channels, 3 fitted	Screen, monitor, recording view
Microphone inputs	8	Balanced, 48 V phantom	Desk and ceiling microphones
Line inputs	4	RCA / terminal block	Mixer, remote audio
Line outputs	4	Terminal block	Amplifier, active speakers
Dante	2x2	RJ45	Network audio in and out
Control	2 / 1 / 2	RS-232 / RS-485 / IO	PTZ, display, peripherals
Network	3	RJ45	Management, media and Dante

In the Box

Host unit: 1, aged and self-tested before packing

Power cord: 1 standard cord; adapter models ship with one external adapter

Rack hardware: One pair of ears; portable models ship with the handle fitted

Quick start: 1, wiring and first power-on steps

Certificate: 1, printed with the serial number

Storage drive: 1, already fitted, capacity in the specifications

Installation Environment

Operating temperature: 0 C to 40 C

Operating humidity: 10% to 90%, non-condensing

Storage temperature: -20 C to 60 C

Altitude: up to 3000 m

Clearance: 100 mm at intake and exhaust, unobstructed in the rack

Grounding: Rack ground resistance 4 ohm or less, conductor 1.5 mm2 or larger

Ordering Information

Model	Description
QG-1U6L	Recording integrated host, 10 x in, 3 x out

Company Information

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