



The new QIP series of IPTV encoders offer a totally new technology for H.264 IPTV encoding and distribution. All models feature dual encoders to achieve a lower cost per IP stream. Dual hardware scalers offer total control over video resolution, widescreen formatting and bitrate. Conversion of VGA and PAL resolutions is fully supported as well. Both streams can be encoded as H.264 or MPEG2, and sent as Unicast or Multicast streams.

Models are available with HDMI or SDI inputs, as well as Composite for video or captioning data. Captioning is also available from embedded SDI 708/608 data. Audio options include embedded audio, digital SPDIF, and analog stereo – and SAP second audio language programs can be defined as well. Closure and voltage inputs are available to trigger an EAS broadcast. Both streams will switch to a defined input, and will revert to current inputs when the event ends.

### QIP-HDMI 2

- Two HDMI inputs (non-HDCP), up to 1080p60
- Two Composite/CC video inputs for encoding, or captioning,
- Two analog mini Stereo and two RCA SPDIF coax audio inputs

### QIP-SDI 2

- Two SDI inputs, up to 1080p60
- Two Composite/CC video inputs for encoding, or captioning,
- Two analog mini Stereo and two RCA SPDIF coax audio inputs

### QIP-SDI HDMI

- One SDI and one HDMI input, up to 1080p60
- Two Composite/CC video inputs for encoding, or captioning,
- Two analog mini Stereo and two RCA SPDIF coax audio inputs

### Shared Features

- Creates up to two high-definition SPTS/MPTS Unicast or Multicast IPTV streams, encoded as H.264 or MPEG2
- Encodes audio as AAC or MP12. Passes through AC-3.
- Can create SAP dual-language audio for each program
- Accepts 608 and 708 embedded captioning, decodes Line 21 captioning from composite video inputs
- Dual hardware scalers accept up to 1080p60 video, including 60/30 Hz, and PAL formats, and can deliver programs at a fixed or native resolution
- Contact and voltage inputs can trigger EAS broadcasts
- Setup and monitor with front-panel menus or Ethernet/USB Web pages
- Updates over Ethernet or front-panel USB, one app updates all models
- May be rack-mounted two-across, delivering up to 4 IPTV streams in one rack space, with a mix of inputs



### QIP-SDI 2

**Video:** Dual SDI inputs: 3G/HD -and SD-SDI  
Dual NTSC Video/CC

**Audio:** SDI embedded AES audio  
Groups 1-4  
Dual SPDIF coax and stereo 3.5mm inputs

### QIP-HDMI 2

**Video:** Dual HDMI inputs, up to 1080p60  
Dual NTSC Video/CC

**Audio:** HDMI embedded  
Dual SPDIF coax stereo 3.5mm inputs

### QIP-SDI HDMI

**Video:** One SDI input and One HDMI input,  
up to 1080p  
Dual NTSC Video/CC

**Audio:** SDI embedded AES audio  
Groups 1-4  
HDMI embedded  
Dual SPDIF coax and stereo 3.5mm inputs

### Shared Features

**Physical** 8.5" [216mm] wide x 1.75" [44mm] height (1RU) x 6.0" [153mm] deep  
1.5 lbs [0.68kg]  
Rack mounting for one or two units side-by-side optional (RK1, RK2EZ)

**Scaling** Dual hardware scalers  
Accepts 1080p60 - 480i, HD, SD and VGA resolutions, 29.97 - 60 Hz US and PAL refresh rates  
Edge to edge presentation with zoom, shrink and X/Y axis positioning  
Auto-sync or scales to fixed output resolution, 1080p is scaled to 1080i

**Encoding** H.264 or MPEG2 Profile: MP@HLfor HD, MP@MLfor SD, 1080i, 720p, 576i, 480p, and 480i output resolution  
MPEG 2 Video Encoding bitrate 10-20 Mbps, HD, 4-8 Mbps 480i, or variable bitrate  
H.264 Video Encoding bitrate 5-10 Mbps, HD, 2-4 Mbps 480i, or variable bitrate  
PCM or analog audio output as MPEG1 Layer2 or AAC  
Pass-through AC-3 audio  
SAP Dual-language capability for each program

**Standards** FCC Class B, ROHS, meets California standards

**Front Panel** Setup, Select and directional buttons for menu setup  
Blue LCD, 2 lines of 20 white characters each

**Power** 2.1mm coaxial jack (inside center conductor positive) 1.5 A maximum, 11.5 to 13.5 VDC

**Ethernet** RJ-45 GigE Ethernet connector for IP control, Multicast/Unicast IPTV and internal Web pages

**Includes** EAS Closure inputs switch to emergency video and audio, PS12-2 Power Supply, 2.0 A 12VDC

**Options** RK1 Single Rack Kit, RK2EZ Dual Rack Kit

*All CR products feature a full three-year warranty.*