

RIOVIDEO

RV-HD Decoder

Live contribution & distribution

- > MPEG2, AVC, HEVC & V-Nova PERSEUS
- > Economical four HD Channel
- > Live events & sports coverage
- > News gathering
- > Deliver over 3G/4G

Pushing network bandwidth to the **max**

SPORTS

EVENTS

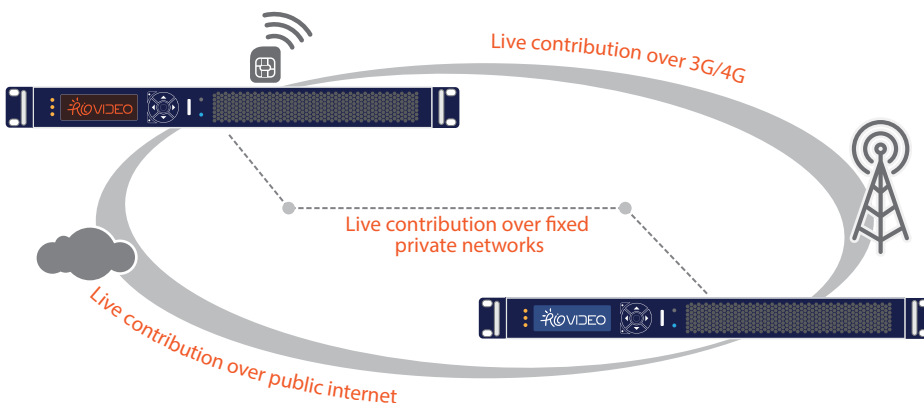
NEWS

RioVIDEO is focused on delivering flexible cost effective video compression technology, to meet the demands of ultra low bandwidth networks for TV and media applications.



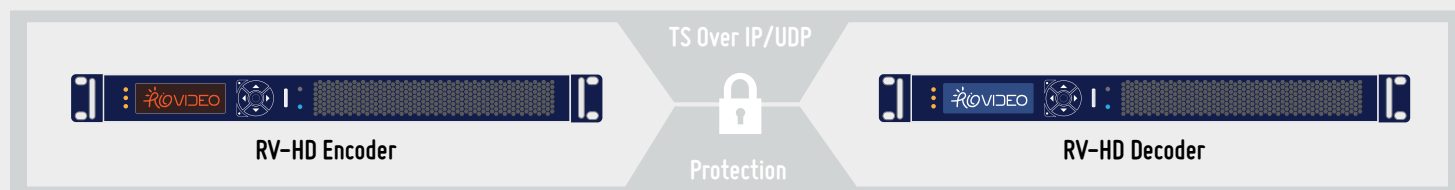
The **RioVIDEO RV-HD Decoder** is a 1RU compact platform that is designed to accommodate the rapid developments in next generation compression technology, such as HEVC/H.265 and V-Nova PERSEUS codecs. The platform also supports standard AVC/H.264 and MPEG2/H.262 of today. With flexible High Performance Compute architecture, the **RioVIDEO RV-HD Decoder** delivers efficient performance with a range of connectivity options.

The RV-HD product range is targeted at low bitrate HD/SD point to point contribution and primary distribution applications. Connectivity maybe one or a bonded combination of the following options:



KEY FEATURES:

- Compact 1RU chassis
- Front panel control
- Four independent HD/SD decoder channels
- SNMP Monitoring
- MPEG2, AVC, HEVC and V-Nova PERSEUS 4:2:0 8bit Video
- Multiple audio channels
- Input IP/UDP for Unicast/Multicast TS delivery
- Stream protection for delivery over the public internet
- Optional Mobile Network Modem for 3G/4G connectivity



The **RV-HD Decoder** is designed to inter operate with the **RioVIDEO RV-HD Encoder** to provide protected point to point contribution and primary distribution links across standard networks.

The RV-HD Decoder is ideal to aggregate various incoming contribution feeds at a headend or to be used at remote transmission sites for primary distribution.

Specification

Encode Feature	Description
Video Codec Profiles and Levels	<p>MPEG2 ITU-T Rec. H.262 (Up to 4xHD): Main profile 4:2:0</p> <ul style="list-style-type: none"> Max resolution: High Level 1920x1080 <p>AVC ITU-T Rec. H.264 (Up to 4xHD): Main and High (8bit) profile 4:2:0</p> <ul style="list-style-type: none"> Max resolution: Level 4.0 1920x1080 <p>Optional HEVC ITU-T Rec. H.265 (Up to 4xHD): Main (8bit) profile 4:2:0 Main tier:</p> <ul style="list-style-type: none"> Max resolution: Level 4.0 1920x1080 <p>Optional V-Nova PERSEUS (Up to 4xHD):</p> <ul style="list-style-type: none"> Max resolution: 1920x1080 <p>Optional UHD HEVC (1xUHD): Main (8bit) and Main10 (10bit) profile 4:2:0</p> <ul style="list-style-type: none"> Level 5.1 (3840x2160p50/59.94) Level 5.0 (3840x2160p25/29.97) <p>Optional UHD V-Nova PERSEUS (1xUHD):</p> <ul style="list-style-type: none"> 3840x2160p25/29.97
Video HD-SDI Outputs	<p>HD-SDI video outputs Supported output formats:</p> <ul style="list-style-type: none"> 1.5G 1080i 25Hz,29.97Hz 1.5G 1080p 23.98Hz,24Hz,25Hz,29.97Hz 1.5G 720p 50Hz,59.94Hz 270M 625i50Hz 270M 525i59.94Hz <p>Optional UHD:</p> <ul style="list-style-type: none"> 4x 3G (12G) 3840p 50Hz,59.94Hz 4x 1.5G (6G) 3840p 25Hz,29.97Hz
Video Reference Input	Blackburst in SD, 720p50/59.94Hz, 1080i50/59.94Hz Tri-Sync in 720p50/59.94Hz, 1080i50/59.94Hz
Video Processing	<ul style="list-style-type: none"> Video deinterlacer Video scaler
Audio codecs	<p>2, 4 or 8 channel PCM input via embedded HD-SDI</p> <p>Supported codecs:</p> <ul style="list-style-type: none"> Musicam AAC-LC HE-AAC HE-AACv2
Compressed Stream Input	ES encapsulated in an MPEG2 transport stream. TS delivered over IP/UDP Unicast or Multicast
3G/4G Communications	Optional 3G/4G mobile module

Physical Feature	Description
Form Factor	1RU rack mount unit with front to back cooling. Depth 280mm Weight 6.3Kg (boxed) CE, RoHS Compliance
Electrical	100 - 240 volts 50/60Hz Autorange
Environmental	Ambient operating temperature range: 0°C - 40°C. Relative humidity 10%-80%
Connectors	1x GbE RJ45 for HTTP remote control. 1x GbE RJ45 for TS streaming 4x HD/SD SDI video input (2xHD or 4xSD) 1x IEC Power Connector Optional RF Connectors (with 3G/4G module) Optional extra 2x GbE RJ45 ports
Front panel display	LED backlit LCD panel with 7 user buttons for front panel menu navigation and configuration.
Front panel SIM slot	Optional user 3G/4G SIM card slot

Specification subject to change, correct at time of publication



Image shows optional 3G/4G mobile module