

AVPro Edge IMPULSE Single-Channel Streamer/Recorder (H.264/H.265)

Channels	
Video	1 channel of H.264 or H.265 SD/HD program encoding
Audio	1 pair of MPEG1L2, AAC or AC3 (optional) audio
Management	
Configuration	Web-Gui (easy of advanced mode) or front panel power-on and play (by pre-setup or last configuration)
Status/monitoring	LCD display of status. Remote monitoring of status and current program.
Physical interfaces	
Input	1x HDMI (v1.4)
	1x YPBPR (components)
	1x CVBS (3.5mm)
	1x SDI (option of nb-100a-01/02/03)
	Audio interface (3.5mm)
	Serial port
	1x RJ45
Output	1x RJ45
	1x RF (option of nb-100a-02/03)
Other i/o	Embedded wi-fi with external antennas (for wireless accessing and data transmission)
	1x USB 2.0, 1x SD card standard interface
	LCD x 1, front button x 5, reset button x 1
Encoding	
H.264/avc profile (4:2:0)	Bp/mp/hp@/5.1
H.265 (4:2:0)	MP@L5.1
Input	1920x1080@60p/50p/30p/25p; 1920x1080@60i/50i; 1280x720@60p/50p, 720x576@50i; 720x480@60i;
Output	1920x1080@60p/50p/30p/25p; 1920x1080@60i/50i; 1280x720@60p/50p; 720x576@50i; 720x480@60i; 704x480@30p/60i; 240x320@30p/60i; 352x288@30p/60i
Rescaling	Hd to sd down-conversion
Video bit-rate	Mpeg-2:0.8 mbps-14 mbps. H.264:0.8 mbps-14 mbps
Rate control	Cbr/vbr
Gop control	Support
Aspect ratio	Automatic or manual (4:3 or 16:9)
Audio profile	Mpeg-1 layer ii, aac (he/lc), ac3
Audio bit-rate	Mpeg-1 layer ii: 64-384 kbps, ac-3:128-448 kbps. Aac: 48-448 kbps
Audio mode	Stereo (2.0, including down-mix)
Audio sampling rate	48khz
Audio volume leveling	-12~12 db
Ancillary data processing	Closed caption (cea 608/708), teletext (*future option)
Streaming	
Protocols	Live: udp/rtp, rtsp, rtmp, hls
Server mode	Direct streaming to connected audience. (wi-fi or rj45, limited accessing numbers*)
Operating modes	
Live	Encoding and ip streaming. Encoding and rf output
Recording	Local: hdd. Usb flash. Storage card reader via usb. Format: ts. Circling recording (by time or size of file)
Playback	Local: hdd, usb flash. Storage card reader via usb, in-order, random, scheduled playlist, ipoutput
Physical & environment	
Dimensions	144x118x38mm, 0.3kg (0.66 lb)
Power	12v dc port x 1. Max. 9w (non-modulation mode). Max. 15w (modulation mode)
Operating temperature	10-40 °c

