

# VC-70

## Portable Ultra Low Delay H.264 Encoder

The VC-70 is an H.264 contribution encoder ideally suited for portable use with its lightweight, downsized form and quiet design. NEC superior coding algorithm and ultra low delay technology support its high performance video and audio transmission.



### Features

#### Ultra Low Delay

- The codec delay of minimum 10ms with NEC original low delay technique.

#### High Picture Quality

- Adopts H.264|MPEG-4/AVC High422profile@Level4.1 (8 bits,)
- High picture quality with NEC original processing algorithm even a low bit-rate transmission.

#### Analog and Digital inputs selectable

- Video: Analog(VBS) or digital(SDI)
- Audio: Analog(2 channels) or digital (Embedded)

#### Excellent Portability

- Compact size:  
One-third of 19" rack width
- Lightweight: 1.5kg
- External battery mountable
- Fan-less architecture

#### Low Power Consumption

- Long time operation with an external battery
- Power consumption: 18 VA or less

#### Simple Operation

- Inputs modes (video and audio) and parameters (eight per each input mode) selectable from rotary switches on the front.
- Preset parameter editing via PC.

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## Specifications

Input/output signal	Analog / Digital video signal input NTSC (SMPTE-170M), PAL (ITU-R BT.470) / SD-SDI (SMPTE-259M), HD-SDI (SMPTE-292M) Analog / Digital audio signal input Analog audio (2 channels) / Embedded audio (max. 4 channels) External TS clock signal input Max. 120 MHz TS signal output DVB-ASI, Format: (204,188) or (188), Mode: byte or packet mode
Video encoding specification	H.264   MPEG-4/AVC (ITU-T Rec.H.264 ISO/IEC 14496-10) High422@L4.1(8bit), High@L4.1
Audio encoding specification	MPEG-2 AAC-LC profile (ISO/IEC 13818-7) Mode: 1/0, 2/0, 2/2, 3/1, Bitrate: 160 kbps, 320 kbps, 480 kbps, 640 kbps MPEG-1 Layer2 (ISO/IEC 11172-3) Mode: 2/0, Bitrate: 128 kbps, 192 kbps, 256 kbps, 384 kbps Uncompressed audio (SMPTE 302M-2002) Channel mode: 2 and 4 channels, Quantization bit rate: 16 bit
Built-in test signal	Video: moving color bar with text characters Audio: tone signal
Ancillary	ARIB TR-B23
Codec delay *	Ultra low delay mode : 1080i/29.97Hz : 10 ms - 120 ms 1080i/25Hz : 12 ms - 120 ms 480i/29.97Hz, 576i/25Hz : 28ms - 120ms Normal delay mode : 300 ms to 700 ms
Preset maintenance port	RS-232C
Operation temperature	0 °C to +40 °C (performance guaranteed temperature range), -10 °C to +50 °C (operational temperature range)
Power supply	12 V DC (10.7 V to 17 V)
Power consumption	18 VA or less
External dimensions/ weight	140 (W) × 44 (H) × 245 (D) mm / approx. 1.5 kg

\* The above codec delay value is based on the case when using our low delay decoder as receiving unit.

## Rear View



### Warning about Safety

Before installing, connecting and operating this product, please read carefully and attentively items regarding warning, caution, mandatory and prohibitive actions and always comply with them.

The actual color of the product may differ from the color of the product in this catalog. The shape and specifications of the product is subject to change without notice for improvement.

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