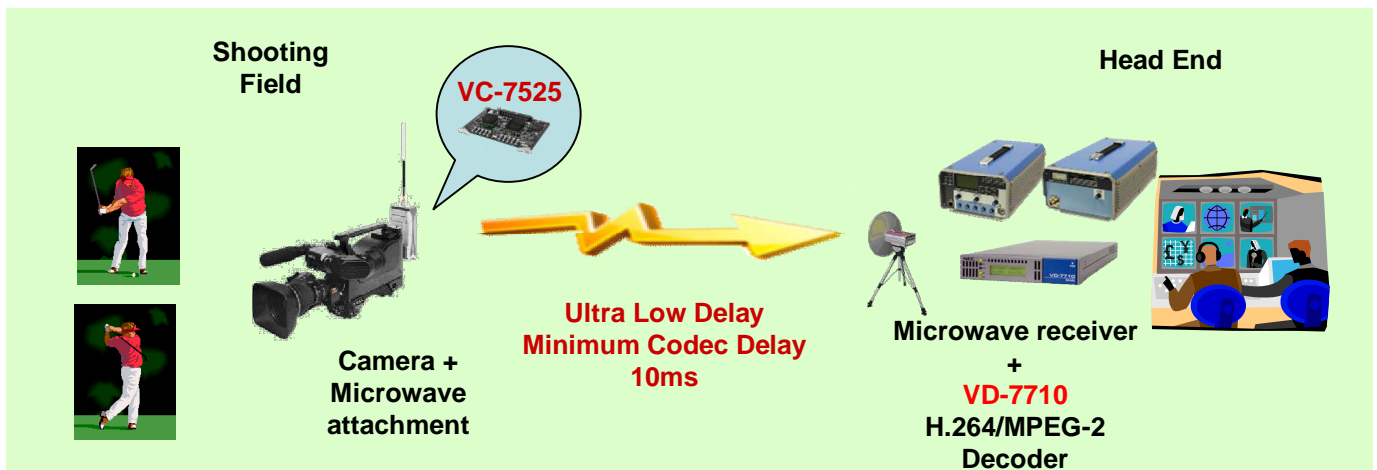


# VC-7525

## H.264 Ultra Low Delay Board Encoder

The VC-7525 is ultra low delay board encoder with NEC's original high-quality video coding algorithms. It can be installed to Professional Camera, Digital Microwave Links (or FPU: Field Pick-up Unit) and so on. H.264 MPEG-4/AVC is adopted for video coding and supports High 422 profile@level 4.1.



VC-7525 Application Example

## Features

### Ultra Low Delay

- Adoption of original low delay technology
- 10msec to 120msec of ultra low delay mode (not included the transmission delay)
- 300msec to 700msec of normal delay mode (not included the transmission delay)

### Video Codec

- Adoption of H.264 | MPEG-4/AVC
- Adoption of High422profile@Level4.1(8bit)
- High Quality Video Coding by original algorithm at not only ultra low delay mode but also low bit rate

### Audio Codec

- Adoption of MPEG-2 AAC-LC and MPEG-1Layer2
- Adoption of LPCM (Non-compression)

# VC-7525 H.264 Ultra Low Delay Board Encoder

## Specification

	VC-7525						
Input Signal Output Signal	(1) Input Signal <ul style="list-style-type: none"> <li>• 1080i serial digital component video Standard: SMPTE-274M, I/F: SMPTE-292M, Frame freq.: 29.97/25Hz, Interlace ratio: 2:1</li> <li>• 480i serial digital component video Standard: ITU-R BT.601, I/F: SMPTE-259M, Frame freq.:29.97Hz, Interlace ratio: 2:1</li> <li>• 576i serial digital component video Standard: ITU-R BT.601, I/F: SMPTE-259M, Frame freq.:25Hz, Interlace ratio: 2:1</li> <li>• Audio format Embedded Audio (Max. 4ch)</li> </ul> (2) Output Signal <ul style="list-style-type: none"> <li>• MPEG-2 TS (Transport Stream) ISO/IEC 1381801, I/F: DVB-ASI Format: (204,188) or (188), Mode: byte or packet mode</li> </ul> (3) Encoder External TS Clock input <ul style="list-style-type: none"> <li>• Maximum: 160MHz</li> </ul>						
Video Encoder	H.264 High422@L4.1(8bit), High@L4.1 Max. rate 120Mbps Chroma 4:2:2/4:2:0 Entropy coding CABAC/CAVLC ALL-I, M=1,3, Intra Refresh Mode						
Audio Encoder	MPEG-2 AAC-LC profile, MPEG-1 Layer2, LPCM (SMPTE302M-2002)						
Codec Delay	Ultra Low Delay mode: <table style="width: 100%; border: none;"> <tr> <td style="width: 60%;">1080i/29.97Hz</td> <td style="width: 40%;">: 10msec ~ 120msec</td> </tr> <tr> <td>1080i/25Hz</td> <td>: 12msec ~ 120msec</td> </tr> <tr> <td>480i/29.97Hz, 576i/25Hz</td> <td>: 28msec ~ 120msec</td> </tr> </table> Normal Delay mode: 300msec ~ 700msec	1080i/29.97Hz	: 10msec ~ 120msec	1080i/25Hz	: 12msec ~ 120msec	480i/29.97Hz, 576i/25Hz	: 28msec ~ 120msec
1080i/29.97Hz	: 10msec ~ 120msec						
1080i/25Hz	: 12msec ~ 120msec						
480i/29.97Hz, 576i/25Hz	: 28msec ~ 120msec						
Signal Interface	SDI Input x1 SDI Output (Thru) x1 DVB-ASI Output x2 EXT-CLK Input x1						
Control	RS-232C (Command Base)						
Operation Temperature	-10 °C to 50°C						
Power Supply	9.0 to 17.0 V DC						
Power Consumption	15VA or less						
Dimensions	195 (W) × 105 (D) mm						

ISO 9000 Series



ISO 9001 JMI-0119  
NEC Broadcast and Video

ISO 14001



JQA-E-90066  
NEC

### Safety precautions

To install, make connections and operate this product, please carefully read and observe instructions, precautions and recommendations in our instruction manuals.

The colours in this brochure may differ from those of the actual unit. Designs and specifications of this product is subject to change without prior notice.

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