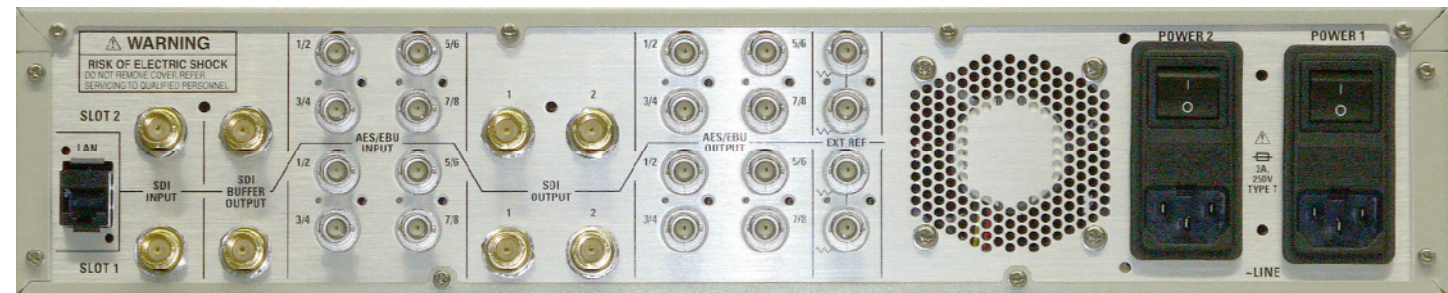


|                                 |                                                                                                                                                |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Input                           | HD-SDI/SDI, 1 BNC active through, 75 Ω                                                                                                         |
| Output                          | HD-SDI/SDI, 2 BNC, 75 Ω                                                                                                                        |
|                                 | 2 Confirms with SMPTE 292M, SMPTE 259M                                                                                                         |
|                                 | BB (Black Burst) sync level 286mVp-p ± 6 dB 75 Ω                                                                                               |
| External Reference Sync         | HDTV Tri-level sync ±300 mVp-p ± 6 dB 75 Ω                                                                                                     |
| synchronized with output signal | BNC, Auto Termination, Loop Through Output                                                                                                     |
| In-Out Delay                    | 65 msec (Typ.)                                                                                                                                 |
| VideoProcess                    | Gain (Y/C), Set up, Phase(Internal, External), Enhancer(Y/C)<br>Noize reduction (Y/C)<br>※When SDTV converting, converting up / down.          |
| AFD                             | Supports auto aspect changing                                                                                                                  |
| Aspect ratio                    | 4:3, 13:9, 14:9, 15:9, 16:9 ※When converting up / down                                                                                         |
| Embedded Audio                  | 24 bit, 48 kHz, 16ch Confirms with SMPTE 299M, SMPTE272M                                                                                       |
| AES/EBU Audio                   | 24 bit, 48 kHz, 8 ch BNC 75 Ω                                                                                                                  |
| Dolby-E Audio                   | 24 bit, 48 kHz, DE timing conversion supports                                                                                                  |
| Audio Delay                     | -66ms~+350ms (1ms step) Individual channel                                                                                                     |
| Superimpose Function            | Character, Time code, Audio monitor                                                                                                            |
| Time Code                       | ATC LTC, ATC VITC                                                                                                                              |
| Non input action                | Freeze/Black                                                                                                                                   |
| Remote Control                  | SNMP, HTTP                                                                                                                                     |
| Test signals                    | Video: Color bar, Scroll Audio: 1kHz -20dB, Channel sequential<br>Time code: ATC LTC, ATC VITC<br>Closed caption: CEA608, CEA708               |
| Input watching                  | Video CRC, Audio CRC, Dolby-E DE Timing, Dolby-E Bit stream,<br>Audio channel status, Timecode packet, Closed caption packet,<br>352M Payload  |
| Motion compensation parameter   | Motion detection, Motion compensation                                                                                                          |
| Alarm                           | Signal, Fan, Power                                                                                                                             |
| Closed Caption                  | CEA608, CEA708                                                                                                                                 |
| Options                         | VC7000001 : Dolby-E (Encode Decode Conversion)<br>VC7000003 : Dual conversion unit<br>VC7000004 : 3D Support Software (Side-by-Side Half, L+R) |
| Power Supply                    | AC 90-240V, 50Hz/60Hz                                                                                                                          |
| Power consumption               | 150 VA, Redundant power supply                                                                                                                 |
| Operating environment           | +5°C~+35°C/5%~90%RH (non-dewing)<br>( Temperature/Humidity range in performance is guaranteed. )                                               |
| Dimensions                      | 426 (W) x 88 (H) x 520 (D) mm 2U (mountable 19 inch rack)                                                                                      |
| Weight                          | Approximately 6kg                                                                                                                              |



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※Specifications are subject to change without notice. VC7 Ver. 2.09

VC7

**NEW!**

## Multi-Format Video Frame Converter



- Integrated Motion Compensation Algorithms
- Supports SNMP and HTTP Internet Protocols
- 3D Video Conversion
- Dolby-E Audio & Channel Mapping
- Dual Signal Conversion

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Measures infinite possibilities by accumulative experience through a half century.

GENERAL DESCRIPTION

The VC7 is a multi-standard integrated converter. With motion compensation algorithms, fast changing images (like sporting events) appear crystal clear. Simultaneous frame rate and video resolution conversions are supported.

With an optional board installed, the VC7 will convert 3D signals (either Side-by-Side or L + R) and different dual signals separately to any of the formats.

Input audio channels may be remapped to any other channel location on the output.

The VC7 also supports Dolby-E with the optional board installed.

The time codes, user specified labels, and audio channel information may all be viewed on the output monitor.

FEATURES

Motion Compensation

Motion compensation algorithms are used when the frame rate is changed and input video is converted smoothly.



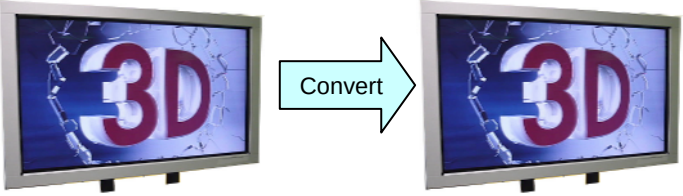
No motion compensation



With motion compensation

3D Video Conversion (Option)

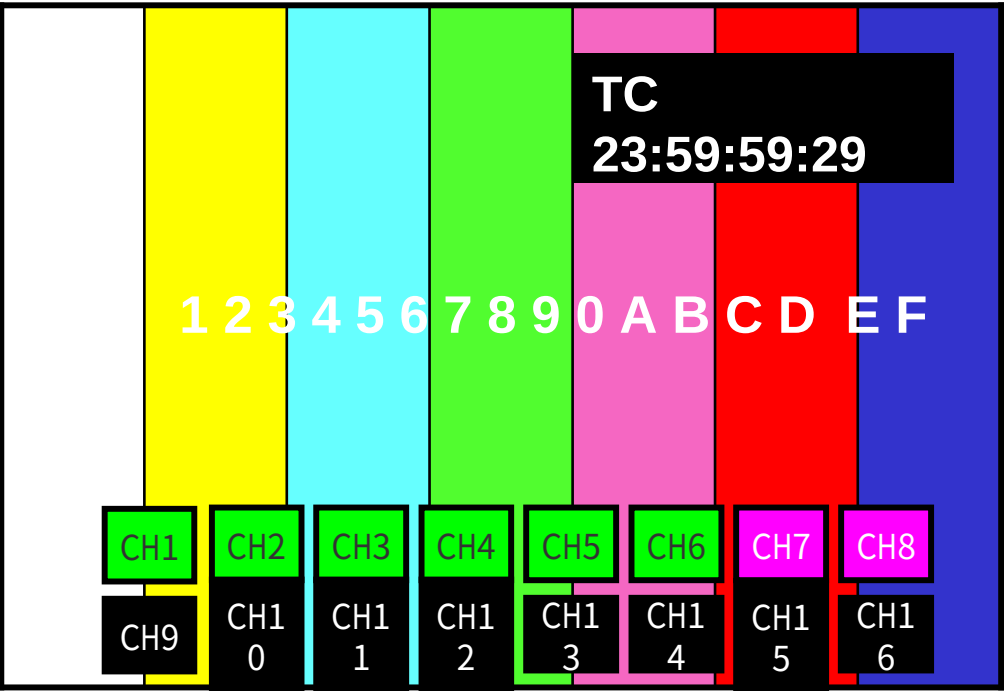
The frame rate conversion of 3D signals is synchronized on either Side-by-Side or L + R signal types.



Ex.: Input 1080/50i L+R      Output 1080/59.94i L+R

Time-code / User Labels / Audio Channel Information

- When the frame frequency is converted, time-codes are converted, newly added, or registered time-code is inserted. They are selectable.
- User Labels: Labels up to 32 characters may be assigned to specific regions.
- Audio Channel Information: The status of each audio channel can be displayed at any time.



TC  
23:59:59:29

1 2 3 4 5 6 7 8 9 0 A B C D E F

CH1 CH2 CH3 CH4 CH5 CH6 CH7 CH8  
CH9 CH10 CH11 CH12 CH13 CH14 CH15 CH16

Time-code

Character

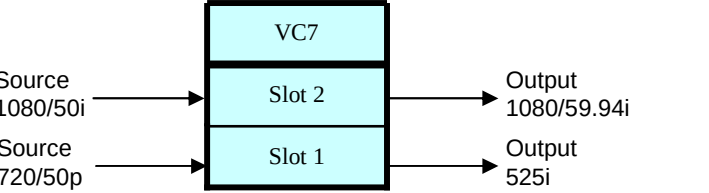
- Position: Top/Middle/Bottom
- Multiple fonts available
- Lines may be up to 32 characters long

Audio Status (Input)

- Green indicates the channel has sound
- Black indicates an empty channel
- Purple indicates the Dolby-E standard channels

Dual Conversion (Option)

With the optional board installed, two separate signals may be converted simultaneously with one VC7 unit.

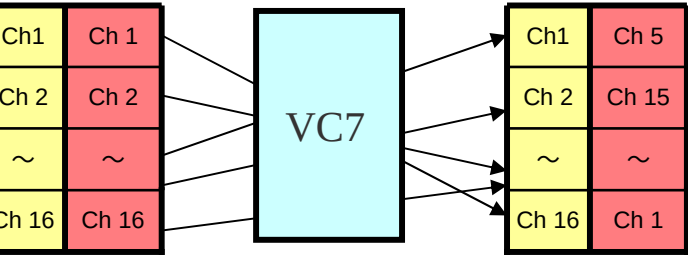


Source 1080/50i → Slot 2 → Output 1080/59.94i

Source 720/50p → Slot 1 → Output 525i

Audio Channel Mapping

Any audio input channel may be mapped to any audio output channel.



Ch1 Ch 1, Ch 2 Ch 2, ~ ~, Ch 16 Ch 16 → VC7 → Ch1 Ch 5, Ch 2 Ch 15, ~ ~, Ch 16 Ch 1

FEATURES

Remote Control / Monitoring

The VC7 may be controlled or monitored remotely. Two protocols are supported:

SNMP – Allows monitoring and remote control

HTTP – Allows remote control

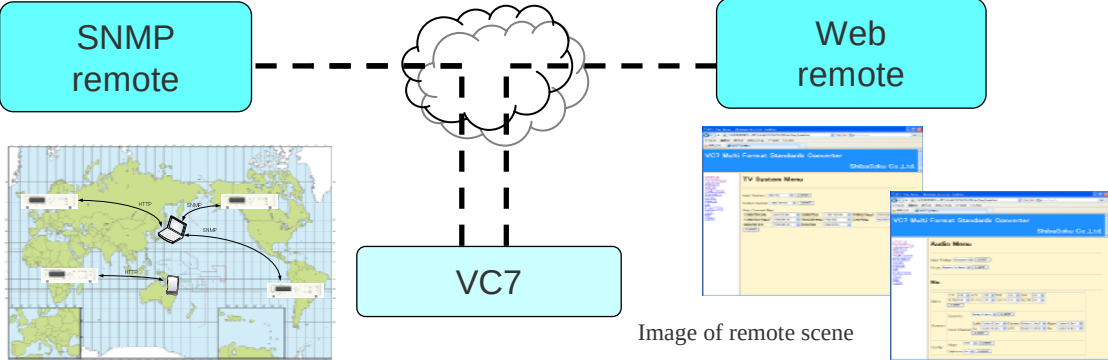


Image of remote scene

Conversion Format Mapping

Input signal formats are automatically recognized and a pre-selected conversion type is automatically selected..

| Input    | Output      |
|----------|-------------|
| 1080i/50 | 1080i/59.94 |
| 720P/50  | 720P/59.94  |
| 625i/50  | 525i/59.94  |

AFD (Aspect Ratio)

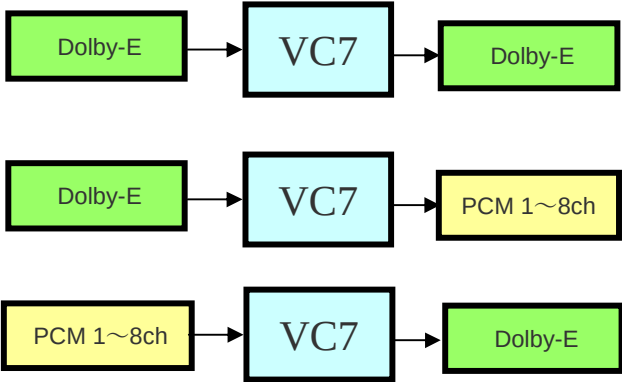
AFD on the incoming signal is automatically determined, and the output aspect ratio may be modified to 4:3, 13:9, 14:9, 15:9, or 16:9.

Closed Caption Standard Conversion

The VC7 can convert from / to the CEA608 and CEA708 standards.

Dolby-E Audio

With the optional board installed, Dolby-E encode and decode is supported.



Dolby-E → VC7 → Dolby-E

Dolby-E → VC7 → PCM 1~8ch

PCM 1~8ch → VC7 → Dolby-E

Scene Change

When a scene change occurs, the motion compensation algorithms are automatically disabled while the new scene begins.

Supporting Formats

| IN \ OUT      | 1080/59.94i | 1080/50i | 1080/29.97PsF | 1080/25PsF | 1080/24PsF | 1080/23.98PsF | 720/59.94p | 720/50p | 525i | 625i |
|---------------|-------------|----------|---------------|------------|------------|---------------|------------|---------|------|------|
| 1080/59.94i   | ◎           | ◎        | ○             | ○          | ○          | ○             | ○          | ○       | ◎    | ◎    |
| 1080/50i      | ◎           | ◎        | ○             | ○          | ○          | ○             | ○          | ○       | ◎    | ◎    |
| 1080/29.97PsF | ○           | ○        | op.           | op.        | op.        | op.           | ○          | ○       | ○    | ○    |
| 1080/25PsF    | ○           | ○        | op.           | op.        | op.        | op.           | ○          | ○       | ○    | ○    |
| 1080/24PsF    | ○           | ○        | op.           | op.        | op.        | op.           | ○          | ○       | ○    | ○    |
| 1080/23.98PsF | ○           | ○        | op.           | op.        | op.        | op.           | ○          | ○       | ○    | ○    |
| 720/59.94p    | ○           | ○        | op.           | op.        | op.        | op.           | ○          | ○       | ○    | ○    |
| 720/50p       | ○           | ○        | op.           | op.        | op.        | op.           | ○          | ○       | ○    | ○    |
| 525i          | ◎           | ◎        | ○             | ○          | ○          | ○             | ○          | ○       | ◎    | ◎    |
| 625i          | ◎           | ◎        | ○             | ○          | ○          | ○             | ○          | ○       | ◎    | ◎    |

1080i - SD model : ◎      Multi format model : ◎/ ○