

Fra TAURUS

(www.taurus-sales.com)

IBC 2010 er nært forestående. Ses vi i Amsterdam? Hvis ja, så lad os aftale et møde, så vi er sikre på at træffes. Crystal Vision (CV) standen er ganske centralt beliggende – 2B11.

Ring eller mail og lad os få klaret det praktiske.

Crystal Vision (CV) – 3G, HD, SD

(www.crystalvision.tv)

I 2008 bragte vi vedlagte annonce ”Prøv en gang”. Det var introduktionen af modulet MultiLogo, som er helt aktuel og en efterspurgt sag fra CV.

Den gang var 3G ikke slået igennem, men det er blevet en standard siden. Vi talte om SD (270 Mb/s) og HD (1.485 Mb/s), som bedre kunne have været betegnet HD1. Bitrate blev fordoblet for at rumme 1080p, og dermed var HD2 skabt – eller som det kom til at hedde: 3G.

CV produkterne, som kan håndtere 3G, har oftest 3G hægtet på modulnavnet. Og ikke kun 3G kan klares – alle 3 relevante: 3G, HD & SD.

Således modultyperne indtil nu i de tre bitrates:

- UP-DOWN** (krydskonvertering)
- QDOWN** (nedkonvertering og endog til analogt signal)
- TANDEM** (embed / de-embed)
- SYNNER** (synchroniser + embed / de-embed)
- SWITCHES** (intelligent 2 x 2, eller ordinære 2 x 2 & 8 x 3)
- DISTRIBUTION** (5 eller 11 outputs med / uden reclocking)
- FIBRE OPTIC** (sender og modtager)
- DUAL LINK** Conv. (single to dual link eller omvendt – 3 D)

Programmet fra CV er omfattende. I 2008 var der ca. 100 forskellige moduler + en mængde sub-moduler.

Med 3 G er antallene blot endnu større.

Skal vi ses i Amsterdam på 2B11 standen?

Med venlig hilsen
TAURUS ApS

Arne Lillevang



INFRASTRUCTURE

Crystal Vision

Converters, Synchronisers, Distribution, Em- & De-embedders, Keyers, Delays, Switchers

Snell

Routers & Control, Auto & Pres. Systems, Production mixers, S&W + Vistek modular ranges

Courtyard

Sync. Pulse Gen., TPG, On-air, sport & VT clocks, CGs, Legaliser

Echolab

Video Mixers – digital / analogue

Calrec

Audio mixing Consoles

DekTec

PCI cards; digital TV generators and for measurements

BON Electronics

Professional monitors, video walls, PAL comp., SD, HD, 3G

VAC - Video Access. Corp.

Video & Audio building bricks

TRANSMISSION

Electrosys / Itelco S.p.A.

Transmitters for digital (DVB-T- S-C & DAB) & analogue signals

Broadcast Electronics Inc.

Radiosendere, AM-FM-HD Radio

RVR Electronica S.p.A.

Stereo MPXs, FM & TV excitors and transmitters, antennas

PPM – Pulse Power &

Measurement – Fibre-optical transfers, Communication, Test & Instrumentation, Custom Systems

ARG

Signals via Telco lines and circuitry (E1, E3, STM-1)

Bluebell Communications

Optical fibre network systems; video, audio & telecom signals

Novotronic

High frequency switching (incl. L-band), measuring, attenuation, amplifiers, dividers and more

Ericsson Television

Encoder & decoders, MPEG-2, MPEG-4, TV over IP and more

Factum Electronics

DAB encoders, S & E muxes

PEAK Communications

Frequency up / down conversions

Polatis Inc.

Fibreoptical switching

T-VIPS

IP connectivity, JPEG-2000

SolCast

DVB-S/S2, DVB-T & Ku-band Transmissions (special solutions)

TECHNICAL SEMINARS

DVB & DAB

SECOND HAND EQUIPMENT

Trading internationally

Prøv en gang



Foreground



Background



Key'ed picture



The Module

En af de store nyheder fra CV på NAB 08 var introduktion af hukommelse på moduler. Foreløbig er der 4 forskellige moduler + varianter heraf:

1. Multilogo – 3 lags keying fra op til 4 key sources. Disse kan være still logos eller komme fra bevægelig grafik, grabbed fra PC eller fra et input.
2. Clip N Key – store & playback af specielle clips / keys (max 25 sec. eller 15 sec. med key pr. clip) – fungerer som overgangssekvens mellem scene-skift eller typisk mellem scoringer af mål i f.eks. håndbold eller fodbold.
3. Playback – kontinuerlig live storage af op til 25 sec. HD eller 150 sec. SD signaler med valgfrit playback tidspunkt og længde – kaldet action replay og se det som en delvis erstatning af brug af servere!
4. ViViD HD – video delay af uanede varigheder – 20 sec. i HD eller 110 sec. i SD; anvendes typisk i MPEG kompressions området, hvor der let kan tales om sekunder af forsinkelse ved re-encoding og i øvrigt værst i MPEG-4.

Blandt vore leverandører af infrastruktur- eller gløbeprodukter har vi en vinder – Crystal Vision (CV) - med modulære produkter inden for video eller audio på analog eller digital basis. Mere end 100 forskellige moduler findes og med sub-moduler mere end 150 varianter.

Facts:

- Listepriser som de 4-5 øvrige kvalificerede brands på markedet (hertil et rabatmønster, som gør CV yderst interessant)
- Korte leveringstider, som kan være svære at slå
- Driftsikkerhed på et meget højt niveau
- Back-up via eget demo / test set-up eller via CV
- Vi har 100% teknisk viden, om og hvad der sælges.

Der er mange, som har købt eller prøvet Crystal Vision moduler / frames, og de er stort set alle trofaste kunder i dag.

Derfor – prøv selv en gang!

Rekvirer hos os en prislister, vort rabat set-up samt en CV CD-ROM indeholdende brochurer og manualer – begyndelsen på etablering af høj driftsikkerhed til rimelige penge.



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New For IBC 2010

Crystal Vision

There are lots of good reasons to visit the Crystal Vision stand at IBC 2010. It's a big claim to say that we now make the four best glue products – but we feel we can justify this claim! Broadcasters are putting our new embedders, synchronisers and up and down converters through in-depth evaluation for their big projects – and are choosing Crystal Vision. We've gone for a very ambitious specification on these new products, making them the best there is in their price range. They can deal with all the different signals, handle four

groups of embedded audio and include optional integrated fibre input or output connectivity while still only using up a single slot in a frame. Our feature-packed products provide good value for money and will make the most of your rack space (with up to 12 multi-functional modules in 2U), and we combine this with quick delivery, responsive technical support and a five year warranty. We look forward to welcoming you to **Stand 2.B11** at IBC and telling you more!

THE FOUR BEST GLUE PRODUCTS

Up-Down 3G

What is it?

A rather special up, down and cross converter for 3Gb/s, HD and SD sources – special due to its ability to provide co-timed dual outputs. The up conversions are Standard Definition to 720p, 1080i or 1080p, while the down conversions are 720p, 1080i or 1080p to SD. The cross conversions are 720p to 1080i or 1080p, 1080i to 720p or 1080p, and 1080p to 1080i or 720p.

*Ideal for you if...*

You need the very best up/down/cross converter – and you're looking for an easy way for your studio to operate in HD and SD at the same time.

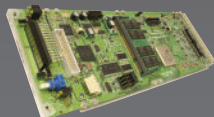
Why should I buy one?

Many reasons! **Because of the output picture quality.** Exceptional results come from a combination of motion adaptive video de-interlacing and Crystal Vision's own proprietary down conversion. **Because you can perform multiple conversions at the same time.** Which makes it easy to create both HD and SD copies of a feed. Each output will either be converted from the input or given a matching delay as required – meaning all your signals will have the same timing. **Because you won't need to change your wiring.** Thanks to its smart internal routing, Up-Down 3G will always put out HD and SD on the same pins, regardless of the input – meaning you always know which output is going to be which. **And because you can use it for all sorts of applications – including live playback.** Up-Down 3G will reconfigure itself instantly should the input format change, allowing the aspect ratio to be changed live on air. What else? It can pass four groups of embedded audio, includes optional integrated fibre input/output connectivity and will look after any aspect ratio conversion requirements – including inserting and reading AFD data.

TANDEM 3G

What is it?

A combined audio embedder and de-embedder which works with 3Gb/s, HD and SD – and four groups of audio.

*Ideal for you if...*

You need to embed or de-embed at the same time, or you're looking to buy one versatile product that can be used as either an embedder or de-embedder as required.

Why should I buy one?

Because it's the most powerful audio embedder/de-embedder system available. TANDEM 3G is the first single board solution providing a combined embedder and de-embedder for four groups of audio – making it an economic and flexible solution for a very wide range of applications. Embed or de-embed up to eight AES at the same time and in any combination. The powerful 32 x 32 audio router allows full shuffling and overwriting of the mono channels between all four groups, while it also includes audio processing, a video proc-amp and a switchable one or two frames video delay useful for matching Dolby E delays. There's also the option of integrated fibre input or output connectivity for when you want to embed and de-embed signals from beyond your local equipment bay.

Q-Down-A 3G

What is it?

Broadcast short-delay down converter and distribution amplifier which works with 3Gb/s, HD and SD.

*Ideal for you if...*

You want to keep the maximum quality of your 3Gb/s or HD signals when down converting – at a reasonable cost.

Why should I buy one?

Because Q-Down-A 3G is a product with two major advantages: a unique level of image quality in its price range (with its sophisticated two dimensional filtering which avoids aliasing while retaining picture sharpness) and a short processing delay which makes your system design much simpler. No surprise that it's our most popular product! It can down convert 1080p, 720p and 1080i and gives flexible outputs, with combinations of either HD digital and analogue (RGB and YUV), or SD digital and analogue (composite, Y/C, YUV and RGB) – while there's also up to eight relocked loop-throughs of your 3Gb/s, HD or SD input. You can select the required aspect ratio, and even use the AFD data in the input to select it for you. You can use the variable video delay to match other delays in your system, improve the colours with the video proc-amp and flag up faulty signals with the signal probe. It passes four groups of embedded audio and provides optional integrated fibre input or output connectivity. If all that wasn't enough, there's even a version that includes transport of timecode and closed captions.

SYNNER-E 3G

What is it?

It's a video synchroniser, tracking audio delay, embedder, de-embedder, audio processor and video proc-amp for 3Gb/s, HD or SD sources – which works with four groups of audio and which includes very special features for processing Dolby E.

*Ideal for you if...*

You're working in an AES or Dolby E environment and you're looking for a multi-functional video synchroniser that will simplify your system design (and save you rack space).

Why should I buy one?

Because it's the ultimate device for all embedding, de-embedding and timing requirements, with one small 100mm x 266mm board containing so much functionality. It has acclaimed synchronising features including full horizontal and vertical timing adjustment, cross-locking, and fast locking after an upstream switch to avoid picture disturbance. It will embed and de-embed up to eight channels of external AES or Dolby E in any combination, with full shuffle and replace. You can optimise the video and audio, with a video proc-amp and gain control. And it's *brilliant* when it comes to dealing with Dolby E! Unlike other synchronisers, it allows a mixture of Dolby E and standard AES within a single audio group – meaning you can synchronise video containing Dolby E, standard audio or a mixture of the two. The video and linear audio can both be delayed to compensate for Dolby E delays, while a selectable one field video delay can be used to correctly align the Dolby E data with the video frame. The optional integrated fibre input/output connectivity means it fits even more in that single frame slot!

MAKING CHROMA KEYING AND LOGO KEYING EASY

Safire and Safire HD 2

What are they?

Modular real-time chroma keyer available in two versions – choose either Safire for Standard Definition sources or the Safire HD 2 for those High Definition applications.



Ideal for you if...

You need a chroma keyer for your live virtual set or sports production – whether you're working on news, weather, game shows or sports coverage. (Or anything in-between!)

Why should I buy one?

Because you'll be in good company. The Safires are used by broadcasters across the world – thanks to their excellent chroma keying and the unequalled features for sports graphics. They have won many side-by-side evaluations by being the easiest chroma keyers to operate – just auto-configure them by pointing the cursor at a representative area of the backdrop colour. (There are lots of processing controls available if you do want to tweak the picture!) And they will save you more space than any other chroma keyer, with these 100mm x 266mm modules fitting in our standard rack frames alongside any of our interface products. Try them out in one of our dedicated demo areas at IBC.

MultiLogo

What is it?

A modular logo keyer with three layers of keying from a variety of internal and external sources, including a 4 GB or 8 GB eight-port non-volatile video store with DRAM and Flash memory.



Ideal for you if...

You need to brand your HD or SD television station with still or animated graphics.

Why should I buy one?

Because it's the most feature-packed, space-saving and easy-to-use modular solution to station branding. It has huge internal storage: use MultiLogo to store up to 250 logos, or use MultiLogo 8G for an amazing 500 logos and make your playout area easier to maintain by storing *all* the graphics you need on just one logo keyer. Then play out any three of these graphics at once using the three keyers. Other features on the long list include key processing controls, clip trimming, look-ahead preview, flexible GPI control and the option to lock the output to an analogue reference to avoid transmission problems. It's space-saving, with 12 logo keyers fitting in 2U – or mix it with any interface products in the same frame. The ease-of-use comes from the MultiLogo Control Software – a single piece of software that does everything you want and is so instinctively easy to use, you'll have logos on your screen within a few minutes! Come and play with the software at IBC and you'll see what we mean!

THE VIDEO DELAY EXPERTS

The ViViD range

What are they?

Four different variable video delay lines for HD and SD sources. Use the ViViD124 for two seconds of SD delay, or the ViViD HD for half a second of delay in HD and three seconds in SD.



For those occasions when you need a really, really long delay, the ViViD HD-20 gives 21 seconds of HD delay or 119 seconds in SD, while the ViViD HD-40 provides 43 seconds of HD delay or four minutes in SD!

Ideal for you if...

You need to match any video delays in your system – such as virtual studio graphics, MPEG encoders/decoders, audio processing, HD radio links, satellite links and profanity delays.

Why should I buy one?

Nobody else does the range of delays that we do. You can pick a product to suit the length of delay that you need (see above!) and then get the *exact* delay required, with the delay range adjustable in individual seconds, frames, lines and pixels. They will delay any embedded data. And they will save you rack space – you can fit 12 of these delay lines into just 2U of rack space.

What now? Come along to **Stand 2.B11** at IBC to find out how these products can help your own specific application, or contact us now for more information or to arrange a product demonstration at either IBC or your own premises.

AND THE OTHER INTERFACE PRODUCTS WE DO...

We've already mentioned our project-winning up and down converters, synchronisers, embedders/de-embedders, chroma and logo keyers and video delays, but that's not the end of our range. We can, in fact, fulfil all of your interface requirements – and offer some rather special products with some rather useful features such as...

Smart Switch 3G 2 x 2 routing switch: With its ability to monitor an amazing twenty different video and audio parameters, you can customise it to your own needs: it will decide which of the two inputs is better based on the parameters that are significant to you.

Demon 2 de-embedding monitor: Not only can it convert SDI into flexible combinations of analogue video and SDI distribution, it can also output AES and analogue audio simultaneously.

SYN HD-AFD synchroniser: It can synchronise HD or SD sources and insert SMPTE 2016 AFD data for aspect ratio correction by downstream equipment.

CoCo HD colour corrector: Designed for whole picture colour correction or legalising, it includes independent RGB gain, lift and gamma adjustments, has advanced correction for gamut errors – and supports 22 different video standards.

The Crystal Vision Range

- AFD inserters and readers
- A to D and D to A converters
- Aspect ratio converters
- Audio converters
- Audio delays
- Audio distribution amplifiers
- Chroma keyers
- Clip stores
- Colour correctors
- Cross converters
- Decoders
- De-embedders
- Down converters
- Dual link to single link
- Encoders
- Embedders
- Fibre optics
- Instant replays
- Legalisers
- Linear keyers
- Logo keyers
- Routing switches
- Scan reversers
- Synchronisers
- Test pattern generators
- Tracking audio delays
- Up converters
- Video delays
- Video distribution amplifiers



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