

A few good reasons to visit the Crystal Vision booth (N1520) at NAB2011!

- 1** We make the five best glue products – in fact, our latest glue products just got even better with the addition of our brand new 2 x 2 clean and intelligent switch and new versions of our up and down converters launching this year.
- 2** We will be offering lots of product demonstrations – including our popular up and down converters and embedded audio products, the brand new Safe Switch 3G clean and intelligent switch, CoCo 3G colour corrector and legaliser and ARC-20MC aspect ratio converter. Our Safire chroma keyers, MultiLogo modular logo keyers and ViViD video delays will also be live in action.
- 3** 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.

The best five glue products just got better!

Broadcasters are putting our latest 2 x 2 switch, embedders, synchronisers and up and down converters through in-depth evaluation – and are choosing Crystal Vision for some major projects. Featuring the very latest technology, these products can deal with all the different signals and handle four groups of embedded audio, while the up and down converters and embedded audio modules also include optional integrated fibre input or output connectivity while still only using up a single slot in a frame.

Safe Switch 3G

What is it?

Crystal Vision's new 2 x 2 clean and intelligent switch which works with 3Gb/s, HD and SD.



Ideal for you if...

You need a 2 x 2 switch you can rely on as an emergency transmission switch, to switch your signal away from a faulty input or for planned maintenance switches – to route a good signal around broken equipment, with flexible set-up and monitoring options.

Why should I buy one?

Because there's no other switch like it. Safe Switch 3G was developed following a request from a broadcaster who could not find a clean switch with the features and high performance they required.

Because it can correct for any timing difference between the two inputs. A framestore synchroniser on each input and the ability to connect it to an external analogue reference results in **no disruption** to the output picture when a switch takes place.

Because it will choose the best input to use. Select from 20 different parameters to trigger a switch and monitor any number of parameters in any combination. Not only will Safe Switch 3G decide which of the two inputs is better based on the engineer's choice of fault conditions, but it will only switch away from an error on the user-selected input if the other input is free of that fault.

Because relay bypass protection will provide peace of mind. To make it even safer, as an extra layer of system security, Safe Switch 3G also includes relay bypass protection on power failure or board removal.

Because of the exceptional GPIs flexibility. All the GPIs are bi-directional, allowing them to be configured as either GPI inputs or GPI outputs.

Up-Down 3G

What is it?

A rather special range of up, down and cross converters for 3Gb/s, HD and SD sources – special due to its ability to perform two conversions at the same time and provide co-timed dual outputs.

What conversions does it do?

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! **Not least because the quality of the output picture has led it to be specified by some broadcasters as their mandatory up/down/cross converter.** 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.

Because you can use it for all sorts of applications – including live playout.

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.

Because you can choose (and only pay for) the features you need. With five different versions available, the optional features include four group embedded audio handling, audio routing, AFD reading and insertion, timecode conversion, and teletext and subtitles handling.

What's new?

The Up-Down-AT 3G and Up-Down-ATX 3G are two new versions of the up/down/cross converter that have been introduced following customer requests and are ideal for those working with timecode and subtitles or where audio routing is required. The extra data handling on these new boards make them suitable for use in the playout area, as well as in the studio environment.

Q-Down-AG 3G

What is it?

A broadcast short-delay down converter and distribution amplifier which works with 3Gb/s, HD and SD. Offering all the functionality of our original down converters, Q-Down-AG 3G and Q-Down-ATG 3G also feature enhanced GPI programming and the ability to deal with both analogue and digital SD blanking widths which ensures that the picture is always the right shape – giving you even more flexibility.



What conversions does it do?

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.

continued overleaf...

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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-AG 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! 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, Q-Down-ATG 3G also includes transport of timecode and closed captions, and both Q-Down-AG 3G and Q-Down-ATG 3G have enhanced GPI programming so that two of the six GPI controls are now individually selectable as either inputs or outputs – giving you even more flexibility.

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.



SYNNER-E 3G

What is it?

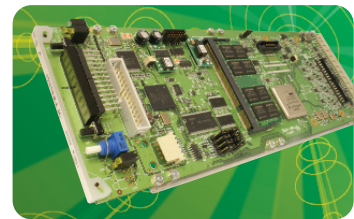
It's a video synchroniser, tracking audio delay, embedder, de-embedder, audio processor and video proc-amp for 3Gb/s, HD or SD sources – which works with four groups of audio and which includes very special features for processing Dolby E. In fact it's so good, over 200 SYNNER-E 3G have already been sold!

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!



Other new products shipping now

CoCo 3G

What is it?

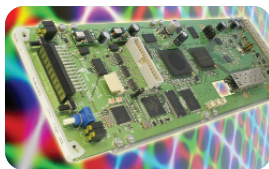
A brand new colour corrector and legaliser for 25 different video standards, that works with 3Gb/s, HD and SD sources.

Ideal for you if...

You want a high quality colour corrector and legaliser on a space-saving module.

Why should I buy one?

Because CoCo 3G is space-saving, feature-packed and affordable. Ideal for any whole picture colour correction or legalising applications, CoCo 3G allows flexible adjustments in both the RGB and YUV colour spaces. It features extensive colour correction tools (rarely seen at this price level) including independent gain, lift and gamma in the RGB domain. The YUV adjustment tools include independent lift, independent gain, overall lift and gain, hue phase adjustment and adjustable horizontal and vertical cropping. As a legaliser it has advanced correction for gamut errors, reducing the colour saturation without changing the hue. As well as providing a 'before' and 'after' comparison by connecting its two main and three auxiliary outputs to a monitor, CoCo 3G offers optional integrated fibre input or output connectivity.



ARC-20MC

What is it?

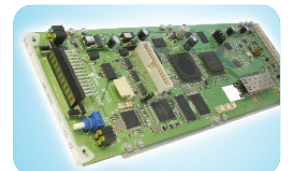
A 10 bit broadcast quality aspect ratio converter with motion adaptive video de-interlacing.

Ideal for you if...

You want outstanding picture quality from an affordable aspect ratio converter that is suitable for every application, or you want to change aspect ratios live on air.

Why should I buy one?

Because ARC-20MC is the best bi-directional aspect ratio converter we've ever designed and comes with the most outputs too. ARC-20MC has all the features that make it suitable for every application. With ARC-20MC you'll get the best output picture possible – with 10 bit processing and motion adaptive video de-interlacing. Save time with presets for the six common conversions between 4:3 and 16:9 – but you can have flexibility too and customise these conversions with size, position and crop adjustments. It's perfect for following any AFD. With full AFD functionality, you can automatically select the aspect ratio based on the SMPTE 2016 AFD, Video index or WSS data in the input signal. (And you can insert AFD too.). You can even change the aspect ratio live on air – with ARC-20MC's ability to reconfigure cleanly within a single frame blanking period.



What now?

Come along to Booth N1520 to find out just how these products can help your own application, or contact us now for more information or for a product demonstration at your own premises. We look forward to hearing from you!

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