

VISION ON

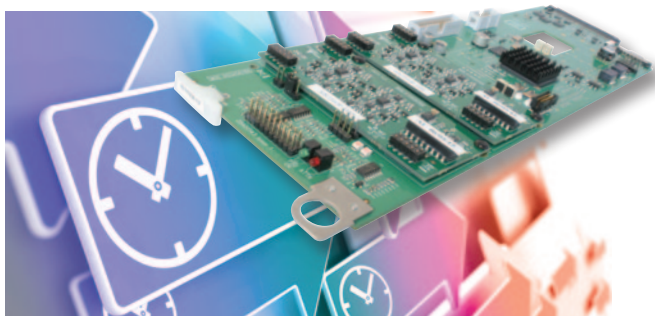
The customer newsletter from
Crystal Vision

WELCOME to the December edition of our "Vision On" newsletter. The forward-looking Vision frame is now shipping and you can read about the first 12 interface cards you can order now, and learn more about the advantages you'll get by using the synchronisers, embedders and up and down converters from the Vision range which are all profiled in this newsletter.

Finally congratulations to Gelantec – winner of our 2016 Distributor of the Year award following a successful year selling Crystal Vision products in Austria.

SYNCHRONISING AND MORE WITH SYNNER-VF

SYNNER-VF is the multi-functional video synchroniser from the Vision frame system – designed as always to save engineers money and rack space. Working with 3Gb/s, HD and SD sources and both AES and analogue audio, SYNNER-VF combines a video synchroniser, tracking audio delay, embedder, de-embedder, audio processor and video proc-amp.



SYNNER-VF is perfect for any signal timing applications, including those where external audio needs to be embedded or de-embedded such as on the station output, station input or before a studio mixer. Using the same audio piggybacks as the Indigo system (3G-AIP2, 3G-AOP2 and DIOP4), SYNNER-VF can embed and de-embed a mixture of up to two groups of analogue audio and four groups of AES at the same time. In Crystal Vision synchronising tradition, SYNNER-VF can synchronise video containing a mixture of Dolby E and linear AES within the same audio group and can auto-correct timing errors with the guardband. Other features include full audio routing, audio and video processing, flexible delay compensation plus fibre input/output connectivity – using the FIP-VF, FOP-VF and FIO-VF fibre options which are specific to the Vision frame system.

In our spirit of always wanting to do things even better, SYNNER-VF has a number of advantages over its Indigo equivalent, SYNNER 310.

Firstly, it gives more video outputs – thanks to the longer frame rear modules combined with the fact that we don't need to connect the reference signal via the rear module. Up to three 3Gb/s, HD or SD outputs are available for those using 110 ohm AES or analogue audio, with up to four video outputs (three BNC plus one fibre) for those using 75 ohm AES. SYNNER-VF uses the single slot VR02 rear module for 110 ohm AES or analogue audio (with the single slot VR12 available for fibre input and/or output applications), and uses the double slot VR13 for all 75 ohm AES applications (fibre and non-fibre).

Second advantage is that SYNNER-VF is one of the products that benefits from the common dual reference on the Vision 3 frame. Not only is it much easier to just connect a reference signal to the frame rather than a reference signal to each synchroniser card, we are also providing a backup syncs feed which can be automatically switched to should the main syncs fail. This feature also reduces overall system cost as there is no need to put in analogue video DAs to supply multiple reference signals.

Third advantage is that the Vision 3 frame includes complimentary SNMP control and monitoring as standard – particularly useful given SYNNER-VF's extensive signal monitoring.

Finally, SYNNER-VF costs less than SYNNER 310.

VISION FRAME SHIPS!

THE first Vision shipment left the building on 7th November on its way up to Scotland.

The Vision 3 frame and the first 12 cards in the Vision range are therefore now officially released and available for you to order:

- **UP-DOWN-A-VF** up/down/cross converter
- **UP-DOWN-ATX-VF** up/down/cross converter
- **UP-DOWN-AS-VF** synchronising up/down/cross converter
- **UP-DOWN-ATXS-VF** synchronising up/down/cross converter
- **SYNNER-VF** synchroniser, tracking audio delay and embedder/de-embedder
- **FTX-VF** fibre optic transmitter
- **FRX-VF** fibre optic receiver
- **3GDA-VF** 3G/HD/SD video distribution amplifier
- **VDA-VF** analogue video distribution amplifier
- **TANDEM10-VF** audio embedder/de-embedder
- **DADA-VF** digital audio distribution amplifier
- **AADA-VF** analogue audio distribution amplifier

So is Vision the frame system for you? If you are planning a future IP or 4K installation or you would benefit from features such as the extra outputs and dual frame syncs on your SDI and audio products, then we definitely recommend you buy Vision. Systems are also already working out cheaper with Vision.

To make it easy for you to work with the Vision system, we've created an Excel-based Vision 3 frame configuration template – which will hopefully be a useful tool for assigning cards to frame slots. Featuring drop down menus for the cards and their relevant rear modules, you can download this template from www.crystalvision.tv/products/vision-frames.html.



EMBEDDING WITH VISION

FOR those that don't need the synchronising features of SYNNER-VF, TANDEM10-VF is a dedicated audio embedder/de-embedder with the ability to embed and de-embed a mixture of up to four groups of AES and two groups of analogue audio at the same time.

TANDEM10-VF gives you more video outputs compared to TANDEM 310 from the Indigo range, offering up to three 3Gb/s, HD or SD outputs with 110 ohm AES or analogue audio and four outputs (three BNC plus one fibre) with 75 ohm AES.

With up to 20 TANDEM10-VF fitting in the Vision 3 frame, the useful features include full audio routing, audio and video processing, flexible delay compensation, fibre input/output connectivity and comprehensive signal monitoring (with complimentary SNMP).

TANDEM10-VF uses the same audio piggybacks as TANDEM 310 (3G-AIP2, 3G-AOP2 and DIOP4) and the same rear modules (VR02, VR12 and VR13) and fibre options (FIP-VF, FOP-VF and FIO-VF) as SYNNER-VF.

DECEMBER 2016

STANDARDISE ON OUR NEW UP AND DOWN CONVERTERS

CRYSTAL VISION has released four up and down converters for the Vision frame system. The UP-DOWN-VF family has inherited the excellent picture processing from Indigo's Up-Down 3G range – which has seen broadcasters standardise on the output picture quality of Crystal Vision up and down converters – and also introduces some new benefits for the first time.

UP-DOWN-A-VF, UP-DOWN-ATX-VF, UP-DOWN-AS-VF and UP-DOWN-ATXS-VF provide flexible conversions between SD, 720p, 1080i and 1080p and can perform two different conversions simultaneously and give out co-timed dual outputs. Including four group embedded audio handling as standard, the choice of features across the four versions (see the table below) includes AFD insertion and reading, audio routing, timecode conversion, teletext and closed captions handling and downstream video synchronisers. The UP-DOWN-AS-VF and UP-DOWN-ATXS-VF versions use two synchronisers downstream of the converter to keep the output valid at all times and allow you to synchronise sources timed to a different reference or correct any processing delays while up or down converting.

So what advantages do the UP-DOWN-VF family have over their Indigo counterparts?

Benefit one is more outputs – largely down to the longer rear modules which provide extra connectors. The default rear module for the UP-DOWN-VF range is VR01 which provides three feeds of each output – that's an extra feed of the first output compared to Indigo's Up-Down 3G and an extra feed of both outputs compared to Indigo's synchronising up and down converters. UP-DOWN-VF can also be used with the VR03 (first time we've offered relay bypass protection on our up and down converters and useful for those using the first output bank to distribute multiple unchanged copies of the input) and finally with the VR14 for fibre input and output connectivity.

Benefit two is that the two synchronising versions take advantage of the dual syncs distributed from the frame. Not only does this result in the extra outputs mentioned above (not having to wire the reference directly to the card frees up a BNC on the rear module), it also means easier wiring: you just need to connect a reference signal to the frame rather than a reference signal to each card. There is also the option of connecting a backup reference for the first time too.

Finally, benefit three is that you'll get more features for your money on the Vision versions.

	UP-DOWN-A-VF	UP-DOWN-ATX-VF	UP-DOWN-AS-VF	UP-DOWN-ATXS-VF
Embedded audio handling	✓	✓	✓	✓
Synchronisers (and TAD)			✓	✓
AFD insertion and reading		✓		✓
Audio routing		✓		✓
Timecode conversion		✓		✓
Teletext and closed captions transport		✓		✓

NEW DISTRIBUTOR NEWS

NOVABASE is the new Crystal Vision distributor for Portugal.

Novabase is a large company with 2,400 staff based in offices in Portugal, Spain, UAE, Mozambique, Angola and the UK, with its main business to provide software solutions for a variety of industries. A broadcast-focused department at the Lisbon office was keen to become the Crystal Vision distributor for Portugal due to our high quality products and support. This Novabase team includes extremely knowledgeable people who have previously worked for the national broadcaster RTP, and are therefore skilled in advising customers on appropriate solutions.

Customers based in Portugal should contact Bruno Gama on 213 836 300 or bruno.gama@novabase.pt.



WHO'S BUYING WHAT...?

Here are some of the orders we've received in the last few months...

AUSTRIA

- National broadcaster ORF has bought more interface boards from distributor Gelantec, including SYN-A 3G and SYNNER 310 synchronisers, Up-Down-A 3G and Up-Down-AS 3G up and down converters, Q-Down-AG 3G down converters, ViViD 3G video delays and 3GDA105N and VDA110M HD video distribution amplifiers.

BELGIUM

- Nos Energies GIE has purchased Q-Down-AG 3G down converters and 3GDA11C 3G/HD/SD distribution amplifiers from distributor AV Group.

CHINA

- Broadcast graphics company Vizrt has purchased a Safire 3 chroma keyer for broadcaster Jinan TV.
- Broadcaster Cable TV Hong Kong has purchased LKEY 3 linear keyers from dealer Evertop Technology.

GERMANY

- Broadcaster ProSiebenSat.1 Media AG has purchased FTX-L 3G and FRX 3G fibre transmitters and receivers along with 3GDA105R digital video DAs from distributor SHM Broadcast.
- Broadcast services provider TV Skyline has bought ten Up-Down-A 3G up and down converters from distributor SHM Broadcast.
- 18 3GDA105N digital video distribution amplifiers have gone to technical services company afm Medientechnik GmbH via distributor SHM Broadcast.
- Broadcaster Red Bull TV is using an ADDEC-210 decoding converter, supplied to systems integrator SonoVTS by distributor SHM Broadcast.

ICELAND

- Media company 365 has purchased Q-Down-AG 3G down converters.

INDIA

- News broadcaster ABP News Network has bought ViViD 3G video delays along with an ADP 310 audio delay and processor.

ITALY

- Broadcaster Mediaset has purchased a Clip N Key V121 clip and sting store from distributor FOR-A Italy.

LATVIA

- Satellite operator SES ASTRA has purchased a SYN103 synchroniser from systems integrator Tilts Integration.

LITHUANIA

- National broadcaster LRT has bought LKEY 3 linear keyers and ViViD 3G video delays from systems integrator TVC.

PORTUGAL

- New distributor Novabase has ordered Safe Switch 3G fail-safe switches for a Portuguese cable TV company.

SINGAPORE

- Universal Broadcast Company has bought 3GDA111R digital video distribution amplifiers.

SPAIN

- National broadcaster TVE has bought another MultiLogo V132 logo keyer from distributor Moncada y Lorenzo.

TURKEY

- National broadcaster TRT has bought Safe Switch 3G fail-safe switches from distributor Teratek.

UK

- Broadcaster STV has purchased two Vision 3 frames containing UP-DOWN-ATXS-VF synchronising up and down converters, 3GDA-VF digital video DAs and TANDEM110-VF audio embedders/de-embedders for its new layout.
- Systems integrator dB Broadcast has ordered 69 interface boards for a project covering several sites in the UK. The boards purchased included FTX-L 3G and FRX 3G fibre transmitters and receivers, SYNNER 310 and SYN-A 3G synchronisers, 3GDA105C digital video DAs, TANDEM 310 embedders/de-embedders, ADCA412 and DACA214 audio converters and DADA208 digital audio DAs. Further boards will be ordered over the next few weeks.
- Systems integrator TSL has installed 25 boards at BBC Nottingham including Safire 3 Xpress chroma keyers, ViViD 3G video delays, Up-Down-AFD 3G synchronising up and down converters, SYNNER 310 synchronisers, TANDEM 320 dual embedders/de-embedders and analogue and digital video DAs.

USA

- Sports broadcaster ESPN has bought another LKEY 3 linear keyer.
- The ChyronHego Corporation has supplied ViViD 3G video delays to Spanish-language television network Telemundo.
- North Carolina broadcaster WCCB has purchased LKEY-SQZ squeeze back keyers from dealer Technical Video Systems.
- Consultancy company LJK Consult has ordered a ViViD 3G-20 long video delay.
- NYC Media, the official broadcast network and media production group of New York, has bought an LKEY-SQZ squeeze back keyer.

VIETNAM

- Broadcaster Bắc Ninh TV has bought 3GDA105C digital video DAs, AADA416FR analogue audio DAs and a REGEN analogue and digital black generator from dealer Media Broadcast Technology.
- Broadcaster Vinh Phúc TV has bought Up-Down-AFD 3G up and down converters via dealer Viet C&T.