

VISION ON

The customer newsletter from
Crystal Vision

WELCOME to the September issue of our "Vision On" newsletter.

If you're attending IBC you'll find us on **Stand 2.C28** (same as last year) where we'll be delighted to prove to you that IP really doesn't have to be difficult. Read more about that below. If you're not interested in IP, then we'll have a full range of SDI products in Amsterdam too, including our reduced-price Safire 3 chroma keyer.

You can also read about the flexible new security we've added to our Indigo and Vision frames on the back page.

IP AND MORE AT IBC

CRYSTAL VISION'S MARBLE-V1 media processor and its initial software apps are approaching completion and should begin shipping later this year.

It has taken time to create our IP platform – we have started from scratch and created a CPU/GPU processor and software platform, rather than simply modifying our SDI products with the addition of internal converters – and the result is the industry's most flexible IP solution. The broadcasters we have spoken to are very excited about the possibilities it offers.

MARBLE-V1 is a card housed in the Vision frame. It has six bi-directional SDI connections, four 10GbE SFP+ network interface ports, eight bi-directional discrete AES stereo channels and multiple referencing capabilities including PTP. The initial software apps are IP gateways for the transport of uncompressed video over 10GbE IP networks, converting to and from SMPTE 2022 or SMPTE 2110, and IP to IP translators designed for network address translation, multicast to unicast address conversion, the creation of media firewalls and ST 2022 to ST 2110 protocol conversion. Such is the flexibility of the IP to IP translator apps, they could potentially help you solve any IP problems. So please come along to IBC and tell us what those problems are! Apps that are bought with the hardware can be replaced with different apps as needs change – helping you make the most of your budgets.

If you're seeking more detailed information, the web pages for MARBLE-V1 and the initial six software apps are now available at www.crystalvision.tv.

What are the initial six apps?

App name	Protocol supported	Function
SDI6-IP-2022	ST 2022	SDI to IP gateway
IP-SDI6-2022	ST 2022	IP to SDI gateway
IP-IP-2022	ST 2022	IP to IP translator
SDI6-IP-2110	ST 2110	SDI to IP gateway
IP-SDI6-2110	ST 2110	IP to SDI gateway
IP-IP-2110	ST 2110 and ST 2022	IP to IP translator

IP AT IBC...

On **Stand 2.C28** at IBC we will be demonstrating that IP doesn't have to be difficult. We will be proving that different IP equipment can work together and that a best-of-breed solution is therefore now possible.

Our IP demonstration will show a number of MARBLE-V1 media processors running different gateway apps with a selection of routers from different manufacturers and a control system based on SDI router software supplied by Rascular Technology. The IP routers will be controlled by IP protocols, IGMP and PIM initiated by the MARBLE-V1 operating system. This method of working is ideal for smaller systems and can be scaled up to be large if required. The IBC demonstration will be similar to the IP demo we gave at our SMPTE meeting in May, which amazed people who previously didn't believe that such a simple, inexpensive IP system was possible.

SDI AT IBC...

IBC is always a good place to have demonstrations of the Safire 3 real-time chroma keyer, which is now the lowest cost of the industry's best real-time chroma keyers following a significant price drop. With its advantages including our responsive technical support and five year warranty, Safire 3 is ideal for applications from weather to immersive virtual studios, with a simple intuitive workflow for setting up a key, support for resolutions from SD to 1080p and features such as lighting compensation, colour correction and video delay.

Also available on Stand 2.C28 will be highlights from our popular range of SDI interface, including up and down converters, logo keyers, video delays, fail-safe routing switches, synchronisers, colour correctors, audio embedders and fibre transmitters and receivers.

IP products = software apps



Planning your visit

GOING to IBC? When you're planning your trip to Amsterdam, why not visit our online showroom on the IBC website?

In one place you can get an overview of what we'll be showing on **Stand 2.C28**, with key information about our IP gateways and translators, chroma keyers, interface products and frame systems.

It's also a handy (online) place to keep your IBC diary. IBC's My Show Planner combines planning and logistics into one easy-to-use tool, where you can find exhibitors and add conference sessions to make the most of your visit. If you register for My Show Planner, then clicking on our 'Add to My Show' button will add Crystal Vision to your visit list.

Explore https://ibc18.mapyourshow.com/7_0/exhibitor/exhibitor-details.cfm?exhid=1288 to find out more.

SEPTEMBER 2018

STAYING SECURE

CRYSTAL VISION has recently added flexible security to its Indigo and Vision frames, with the ability to switch off services that are not required.

It is now possible for a user to disable all services except ping in order to prevent unwanted access to the frames. FTP, HTTP, SNMP and ASCII can be disabled on all our frames. SSH can also be disabled on the Vision frames and Statesman disabled on the Indigo frames. It is also possible to remove the Network Configuration, SNMP Configuration and Software Upgrade menus, should this be required.

Restricting access to the frames is particularly useful in large installations where many people have access to the control network and disgruntled staff are often considered the biggest security risk. The new feature was introduced following the request of a customer who was moving the control of its general (private) IP network so it could be accessed anywhere within and outside the premises. This broadcaster wanted to make its control network more secure and only available to those with authority to use it.

Services can be disabled by FTPing into the folder on the Crystal Vision frame where the services are located. Within this folder there are a number of files, each dedicated to a service. To disable a service you either remove the file or rename it, so that the frame cannot find it on boot up. You will need to reboot the frame for the changes to take effect. Services can be restored by adding a removed file or changing the name back.

Broadcasters are increasingly concerned about IT security, but the move to putting video over IP does not significantly increase the security risks. Our new feature is designed to make the control of the cards more secure rather than – for



example – the video flowing through our MARBLE-V1 media processor, which is already very secure.

Is the new feature for you? Some customers think it is essential, as we've seen. Others believe it unnecessary and do not want to lock their operators out – preferring to employ measures such as using VLANs to restrict equipment control to a small part of their IT network.

If you are interested in getting the new security feature you will need to upgrade your Indigo frame software to V5.9 and your Vision frame software to V1.5. You will also need a password from us to allow you to access the control folder on the frame. E-mail support@crystalvision.tv for more information.

Resources which have been updated in light of the new frame features include the Product Software and Firmware Version document and the Vision 3, Indigo 2, Indigo 1 and Indigo DT user manuals. These are all available in the Registered Area on our website – to access them please log in at www.crystalvision.tv or e-mail web@crystalvision.tv to request a Registered Area password.

WHO'S BUYING WHAT...?

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



AUSTRALIA

- Virtual advertising company Broadcast Virtual has bought another ViViD 3G video delay.

AUSTRIA

- National broadcaster ORF has bought an additional 28 boards for the upgrade of its regional stations to HD. The products included Safe Switch-L 3G fail-safe routing switches, SYNNER 310 multi-functional synchronisers, Q-Down-AG 3G down converters, FTX-L 3G fibre transmitters and various distribution amplifiers and converters.

BELGIUM

- Broadcaster VRT has bought MultiLogo V132 logo keyers from distributor AV Group.

CHINA

- Virtual reality technology provider 7-D Vision Tech has purchased two Safire 3 chroma keyers.
- BesTV Network Technology Development has bought two Safire 3 chroma keyers via Media Version Digital Technology.

FAROE ISLANDS

- Telecoms company Televarpið has purchased a ViViD 3G-20 long video delay.

GERMANY

- Broadcaster ProSiebenSat.1 Media AG has ordered another MultiLogo V132 logo keyer for its Austrian channel Puls 4, purchased via distributor SHM Broadcast.
- Content distribution company MX1 has bought ADDEC-210 decoding converters from distributor SHM Broadcast.

GREECE

- 43 interface boards have gone to Kapa Studios via distributor Ariston BTS, including SYNNER 310 multi-functional synchronisers, 3GDA105C and 3GDA111C digital video DAs, VDA110M HD analogue video DAs and AADA416FM analogue audio DAs.
- Broadcaster Alter Ego Media S.A. has bought TANDEM 310 embedders/de-embedders and 3GDA105C, 3GDA111C, VDA110M HD and AADA416FM distribution amplifiers, supplied by distributor Ariston BTS.

INDIA

- Broadcast graphics company Vizrt has supplied Sony Pictures Networks with six ViViD 3G video delays and three LKEY 3 linear keyers.

IRELAND

- Systems integrator BVS (Broadcast Video Services) has purchased three ViViD 3G-20 long video delays.

PAKISTAN

- Broadcaster Samaa TV has purchased a Safire 3 chroma keyer.

SOUTH KOREA

- Mobile television service provider KT Media Hub has bought more MultiLogo V432 logo keyers from distributor Sanam Technology.

SWITZERLAND

- Broadcaster Teleclub has purchased four ViViD 3GS-20 synchronising long video delays.
- Broadcast graphics company Vizrt has supplied sports marketing company Infront Sports & Media AG with 3GDA105C and VDA110M HD video distribution amplifiers.

UK

- Systems integrator VSC Design is installing CoCo 3G colour correctors, Safe Switch 3G fail-safe routing switches and TANDEM 310 embedders/

de-embedders in a studio upgrade at BBC Broadcasting House in London.

- 26 interface boards have gone to the Kingsway International Christian Centre, supplied by reseller WTS Media Group and including TANDEM 320 dual embedders/de-embedders, 3GDA105C and 3GDA111C digital video DAs, VDA110M HD analogue video DAs and AADA416FM analogue audio DAs.
- Systems integrator IPE has bought more AADA416FM analogue audio DAs and AADA-STM-1 stereo to mono DAs for the BBC's Virtual Local Radio (ViLoR) project.
- Media company Global has purchased another 12 AADA416FM analogue audio distribution amplifiers.

USA

- Sports broadcaster ESPN has ordered an additional four Safire 3 chroma keyers along with three LKEY 3 linear keyers.

VIETNAM

- Broadcaster KRT (Kon Tum TV) has bought a Safe Switch 3G fail-safe routing switch from dealer Alpha Communications.