

VISION

The customer newsletter from
Crystal Vision

DISTRIBUTING VIDEO WITH VISION 3



WE'RE still on track to release the first wave of Vision products, along with the Vision 3 frame, in September.

Profiled here, therefore, are two Vision products that will be amongst the initial card releases and which haven't been documented anywhere else. Introducing the 3GDA-VF and VDA-VF...

3GDA-VF

3GDA-VF is the 3G/HD/SD video distribution amplifier for the Vision frame system. Whereas we have eight digital DAs in the Indigo range, 3GDA-VF does everything (as you'll discover below) meaning that there will only be one 3GDA included in the Vision range for now.

3GDA-VF is a very flexible distribution amplifier. You can configure it to be relocking or non-relocking, it will distribute any digital video (3Gb/s, HD and SD, supporting more individual standards than our previous DAs), it's DVB-ASI compatible (with all outputs non-inverted) and it's not even limited to video with its ability to distribute MADI (AES10) audio.

With a distribution amplifier it's all about the outputs, and the 3GDA-VF gives us more

outputs per slot than we've ever had before. The actual number of outputs is determined by the rear module you choose. Using standard BNCs you'll get six outputs with the single slot VR20 rear module and 12 outputs with the double slot VR15. We're also offering a micro BNCs rear module for the first time (the VR16), which gives you nine outputs in a single slot.

Remote monitoring is included as standard on all the Vision products, via VisionWeb, VisionPanel, SNMP, the frame's integrated control panel or our ASCII and JSON protocols. This is our most cost-effective 3GDA with signal reporting to date, as well as the first time we've offered remote monitoring on a MADI DA.

With up to 20 cards fitting in the Vision 3 frame, the 3GDA-VF has all the features to ensure that digital video distribution amplifiers will continue to be one of our top selling products.

WELCOME to the June issue of our *Vision On* newsletter.

With the Vision frame and initial products now definitely set for September, you can read about two previously undocumented Vision products which are essential for those interface systems: the 3GDA-VF digital video distribution amplifier and the VDA-VF for distributing your analogue video or syncs. Both offer more outputs than we've ever had before!

We're experienced in working with broadcasters to provide unique solutions to problems they face, and you can read about how we created a special product to help a customer access its signals in a more convenient way.

Finally there's lots of new content to explore on the website, from the interactive VisionWeb GUIs to a guide designed to make it easier to use our SNMP MIBs.

VDA-VF

VDA-VF has been designed to provide multiple outputs of analogue sources. With its anticipated main application being for the distribution of SD Black and Burst or HD tri-level syncs reference, it can also be used to distribute SD or HD analogue composite video.

VDA-VF has one differential video input along with an input loop-through, allowing you to remove the card without losing the looped-through source. Just like 3GDA-VF, the number of outputs depends on the rear module selected. Using the single slot VR18 gives five analogue outputs, while 12 outputs (the most we've ever had on an analogue DA) are possible with the dual slot VR17.

Signal reporting wise, there is remote indication of input present and input format. The remotely-adjustable features include gain adjustments of +/-3dB and clamp, along with high quality equalisation which will correct any distortion to the analogue signal caused by up to 300m of cable length.

With the Vision 3 frame including dual syncs distributed to every card, we anticipate the role of VDA-VF could largely be to distribute the station reference to the frame itself, with one VDA-VF able to supply a reference feed to up to 12 Vision frames.

TRY THE VISIONWEB GUIs

RECENTLY added to the Crystal Vision website at www.crystalvision.tv are interactive VisionWeb GUIs for all the remotely controllable products we currently offer – with this VisionWeb demo the most convenient way for you to explore the control options for every board.

Each VisionWeb GUI in the website demo is interactive and you can click on the various tabs, accordions, sliders, routing grids and tick boxes – allowing you to get a real feel for what that product can do. Some GUIs are very simple (for example, the 3GDAs) while others such as Up-Down-ATXS 3G contain multiple tabs with multiple accordions, allowing you to really explore the feature-packed products in depth.

VisionWeb is a free-of-charge way of operating the full Crystal Vision product range from a web browser running on any device connected to the same network – and is now our main control software. By nature of a web browser control system, these GUIs are actually just HTML files which makes them perfect for a website demo. When you actually use VisionWeb with real products, it uses the XML files stored in the frame front panel to generate each product GUI.

You can view all the available GUIs from the new VisionWeb GUIs web page (located in the Support section) which also provides easy access to the product web pages allowing you to find out further product information. You can also access the relevant GUI directly from the individual product pages.

52 GUIs are available for you to try out now at www.crystalvision.tv.



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ACCESSIBLE SIGNALS FROM A WALLBOX

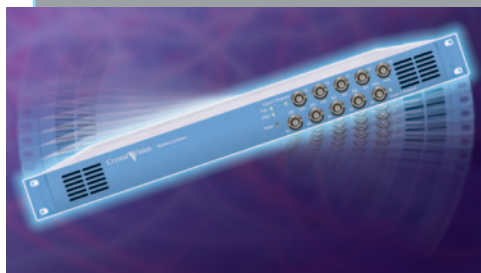
CRYSTAL VISION is well known for discussing a customer's requirements with them and then creating specific products to provide a solution. One such product came about following a recent discussion with BBC Studioworks in the UK. The result was Wallbox Q-Down, a custom-designed wallbox which provides a convenient mixture of easily accessible down converted signals and input loop-throughs at the front of the box – making it easy to distribute signals within a studio for local monitoring. The studio operator will get the video signal of interest routed to a specific wallbox and then pick up the format they need.

This dual channel down converter and distribution amplifier is a 1U high, 439mm wide and 200mm deep wallbox and has been designed to sit on wall-mounted shallow racks, which reduce the amount of space lost on the studio floor.

Taking in the SDI video sources that have been distributed to the studio floor over fibre, Wallbox Q-Down has two fibre inputs able to carry 3Gb/s, HD or SD video and provides a useful set of five fixed outputs for each channel: two input loop-throughs, two down converted SDI digital outputs and one down converted PAL/NTSC analogue output. These outputs can be used as and when needed and are conveniently available via BNC connectors on the wallbox front panel, making them easily swappable.

Wallbox Q-Down includes all the benefits of Crystal Vision's acclaimed down conversion, including broadcast quality conversion and short processing delay as well as numerous useful features including four group audio handling, AFD insertion and reading, variable video delay and signal probe.

Although Wallbox Q-Down was done as a 'special' and as such is yet to become a formal product, should you have a requirement for just such a product then please get in touch.



MIBS, MANUALS AND XML – THE LATEST ONLINE RESOURCES

THERE'S been lots of new resources added to the Registered Area on our website during the last month. If you don't have a login for the Registered Area yet, request one now by e-mailing web@crystalvision.tv.

MIBS

We've created a brand new guide to the SNMP MIBs, available now as a PDF.

The reason for creating the guide is because the MIBs are sometimes named using an 'internal name' which doesn't reflect the actual product name. Read the MIBs guide and you'll discover that 91-VividHdPlus_mib.my is actually the MIB for the ViViD HD-40 long video delay, while 174-Tandem310FrDiopRrDiop_mib.my is for the TANDEM 310 embedder/de-embedder when it's fitted with two digital audio piggybacks. (There's actually a different MIB for each combination of piggybacks fitted to TANDEM 310, TANDEM 320, SYNNER 310 and ADP 310.) Having a guide is particularly useful because all the MIBs are bundled into one zipped file containing 183 individual MIBs.

We've also updated the MIBs themselves for the first time since January 2015, with build 13893 adding a MIB for the Safire 3 Xpress

chroma keyer on 14th June.

XML files

We've recently updated the XML files (and explanatory XML files guide) on the website Registered Area with the addition of the XML file for the Safire 3 Xpress chroma keyer. VisionWeb and VisionPanel use XML files stored in the frame front panel to provide a board's control interface. Alternatively the XML files can be used by those implementing third party control – in this case they provide detailed information on the controls available for each board.

Indigo 2 manual update

The updated version of the Indigo 2 manual has just been released.

This is the first frame manual to include full information on VisionWeb. There's step-by-step instructions on Indigo 2AE and Indigo 2SE frame operation, with a whole chapter devoted to setting up virtual cards in VisionWeb and detailed information on how to manually or automatically back up and restore settings, which was the major new feature introduced with version 5.3 of the frame software.

Manuals for all current and obsolete products are available in the Registered Area in PDF format.

WHO'S BUYING WHAT...?

Here are just a handful of the orders we've received in the last few months...



AUSTRIA

- Transmission company ORS has bought TANDEM 310 embedders/de-embedders from distributor Gelantec.

and
3GDA105N
3G/HD/SD distribution amplifiers.

SOUTH KOREA

- Broadcaster KT Media Hub has purchased six Safe Switch 3G fail-safe routing switches from distributor SanAm Technology.

TAIWAN

- Dealer Advance System Integrated Co.,Ltd. has bought 3GDA105C and 3GDA111R 3G/HD/SD distribution amplifiers and AADA416FM analogue audio distribution amplifiers.

TURKEY

- Broadcaster FB TV has ordered 103 boards from distributor Teratek, including Up-Down-AS 3G synchronising up and down converters, SYN-A 3G and SYNNER 310 synchronisers, ADDEC-210 decoding converters, Smart Switch 3G intelligent routing switches, TANDEM 310 embedders/de-embedders and a selection of video and audio distribution amplifiers.

UK

- Technical furniture manufacturer Custom Consoles has ordered 68 interface boards for BBC Studioworks, including Up-Down-A 3G and Q-Down-AG 3G up and down converters, ADDEC-210 and ALLDAC video converters, SYN 3G and SYN-A 3G synchronisers, TANDEM 310 embedders/de-embedders and 3GDA105N, 3GDA111N, VDA110M HD and AADA416FM video and audio distribution amplifiers.

- Systems integrator Megahertz is installing 76 interface boards in OB vehicles for BBC Scotland and BBC Newsgathering, including Up-Down-A 3G and Q-Down-AG 3G up and down converters, ALLDAC and EMDEC-200 video converters, TANDEM 310 and TANDEM 320 embedders/de-embedders and various video and audio distribution amplifiers.

- BBC Studioworks has ordered 15 of the custom-designed Wallbox Q-Down dual channel down converters.

- Technology solutions and servicing company the EIKON Group has purchased two Safire 3 Xpress chroma keyers for adding greenscreen titling on to 3D films.

USA

- Sports broadcaster ESPN has bought another seven Safire 3 chroma keyers for its coverage of the Euro football championships and Rio Olympics.

- Three ViViD 3G-20 long video delays have gone to manufacturer Cornet Technology.

VIETNAM

- Police broadcaster ANTV has purchased another 29 interface boards from dealer KT Comtech, including FTX-L 3G and FRX 3G fibre transmitters and receivers, SYN 3G synchronisers, VDA110M HD analogue video DAs and TANDEM 310 embedders/de-embedders.

- The Military Broadcasting Centre has bought 22 boards from dealer VTC, including Up-Down-A 3G up and down converters, ADDEC-310 and ALLDAC video converters, SYN 3G synchronisers, TANDEM 310 embedders/de-embedders and 3GDA105C, VDA110M HD and AADA416FM distribution amplifiers.

BANGLADESH

- Broadcaster Dhaka Bangla Channel has purchased a Safire 3 chroma keyer along with ViViD 3G video delays and an ADP 310 audio delay and processor from dealer SRSG.

CHINA

- Distributor Shanghai Kungsi has ordered a ViViD 3G-20 long video delay.
- Vizrt has supplied broadcaster Shandong Television with two Safire 3 chroma keyers.
- 12 ViViD HD-40 long video delays have gone to CSS in Hong Kong.

DENMARK

- Sports broadcaster TV3 SPORT has bought a ViViD HD-40 video delay from distributor Precision Technic Broadcast.
- Ten ViViD 3GS synchronising video delays have gone to Trackman, a provider of tracking systems for sports graphics with offices around the world, for use in Rio at the Olympics.

ESTONIA

- Broadcaster Kanal 2 has purchased four MultiLogo V432 logo keyers along with VDA110M HD analogue video DAs.

GERMANY

- Broadcaster ProSiebenSat.1 Media AG has bought another 28 boards from distributor SHM Broadcast, with installation by BFE. The boards included MultiLogo V132 logo keyers, Up-Down-ATX 3G up and down converters, SYN 3G synchronisers, Smart Switch 3G intelligent 2 x 2 switches, 3GDA111R digital video DAs, ViViD 3G video delays and FTX-L 3G and FRX 3G fibre transmitters and receivers.

- Full service provider Videocation has purchased VDA110M HD analogue video DAs and AADA416FM analogue audio DAs from distributor SHM Broadcast.

GREECE

- Broadcaster Antenna TV has bought a selection of interface modules from distributor Ariston BTS, including 3GDA105N and AADA416FR distribution amplifiers, TANDEM 310 and TANDEM 320 embedders/de-embedders, Q-Down-AG 3G down converter and REFGEN black generator.

LATVIA

- Live casino solutions company Evolution Gaming has purchased another three Safire 3 chroma keyers.

MALAYSIA

- University UiTM has bought VDA110M HD analogue video distribution amplifiers from distributor Tegas Broadcast.

POLAND

- Broadcaster TVP has bought Clip N Key V121 clip stores, SYN-A 3G synchronisers and 3GDA105N and VDA110M HD video distribution amplifiers from distributor JBD.

ROMANIA

- Broadcaster Trinitas TV has purchased a Smart Switch 3G intelligent 2 x 2 switch from Multimedia Services s.r.l.

SLOVENIA

- Broadcaster RTV Slovenija has purchased 18 interface boards, including Up-Down-A 3G and Up-Down-AS 3G up and down converters