



From STVC/PRM	Product Management	Telephone +49 911 93456 11	Nuremberg 07.03.2012
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Release Letter

Product:	VJT-X20XF-E VJT-X40XF-E
Version:	<i>Firmware 5.50.0056</i>

This letter contains latest information about the above mentioned product.

1. General

This initial release covers the new multi-channel H.264 encoders VJT-X20XF-E and VJT-X40XF-E. The products are loaded with initial firmware version 5.50.0056.

VJT-X20XF-E and VJT-X40XF-E are multi-channel high-performance video encoders with Dual Streaming H.264 plus a third JPEG stream. In addition, a fourth I-frame-only stream can be delivered. Both encoders always provide bi-directional audio.

The encoders provide motion detection MOTION+ but do not provide any further video content analysis.

The graphical user interface supports 2 languages per firmware package including online help files. The initial firmware package includes English and German. Other languages are available as separate firmware packages, each including English - as the global support language - plus another language.

The encoders provide support for low bandwidth connections via Region-of-Interest cut-outs for both live and replay as well as transcoding of recordings for replay.



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2. Features

- H.264 Main Profile next generation encoder
 - H.264 baseline profile plus (BP+) providing IPP structure for around 100 ms latency
 - H.264 main profile (MP) providing IPBB structure with hierarchically coded stream with about 300 ms delay but maximum efficiency
- 2 independent H.264 streams with 4CIF resolution and full frame rate per video input, e.g.:
 - first stream for live with low delay H.264 baseline profile
 - second stream for storage with H.264 main profile, recorded on iSCSI
- JPEG Streaming as third stream per video input
- I-frame-only stream as derivative of stream 1 per video input

Unit

- Password 3 level access (live view, operation and administration)
- MD5 encryption for the password transmission to the browser
- Unit ID setting
- Unit name with max. 31 characters
- Date and time setting, including daylight saving time table
- Date and time synchronization with PC
- Time server protocol and SNTP support

Video VJT-X20XF-E

- Two analogue BNC video input channels PAL/NTSC
- Encoding of 4 independent H.264 streams with 4x 4CIF@25/30ips.
- Encoding of 2 JPEG streams in any of the selected H.264 resolutions per video input

Video VJT-X40XF-E

- Four analogue BNC video input channels PAL/NTSC
- Encoding of 8 independent H.264 streams with 8x 4CIF@25/30ips.
- Encoding of 4 JPEG streams in any of the selected H.264 resolutions per video input

Audio

- Bidirectional mono audio, line level, via stereo audio jack
- G.711, L16 and AAC support
- Audio level meter



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Alarm

- Four alarm inputs plus 4 virtual alarms
- Audio alarm
- Hard-wired alarm input active low or active high
- Alarm input name of up to 31 character
- Connection on alarm to a configurable IP address
- Auto connect to pre-defined IP addresses (force permanent connection)
- Alarm connections with up to 10 different alarm IP addresses
- Alarm Task Editor for modification and enhancement of alarm scripts

Relay

- One relay contact
- Relay output setting idle state closed or open
- Relay operation mode bi-stable or mono-stable with 0,5sec, 1sec, 2sec, 5sec, 10sec and 60sec of activation time
- Relay follows function for connection, alarm input pin or remote input

Interface

- Serial port support for RS232/RS422/RS485 functionality. The port can be used in terminal or transparent mode.
- Minimized delay for transparent data

Service

- Setting of IP address and subnet mask
- Setting of Gateway IP address
- Multicast protocol IGMP is supported for both V2 and V3
- Video stream can be configured for connection via TCP or UDP
- Device's HTML page access can be set to TCP ports 80 and 10000 to 10100 to allow the support of NAT.
- Secure access using HTTPS for Web browser or control connections
- AES encryption with 128 bit keys as licensable option
- Firmware upload via browser
- Save configuration data from the unit to PC hard disc
- Upload configuration data to the unit
- SNMP MIB II and traps have full functionality with community string.
- Telnet support



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3. Firmware 5.50 Features

For detailed description please refer to release letter of VIPX H.264 firmware version 5.50.0056.

4. Restrictions; Known Issues

- Mixture between video standards, e.g. PAL encoder connected to NTSC decoder, is not supported.
- After firmware upload while summertime checkbox is activated the time zone must be adjusted.
- When filling an empty DST table and then update time zone too quickly, it may happen that time is shifted by 1 hour.
- After reboot, the system time re-synchronisation may be delayed up to 9 seconds for SNTP respectively up to 14 seconds for time server protocol.
- Resolutions for RTSP are depending on player capability.
- LUN size for local recording via "Direct iSCSI" is limited to 2 TB.
- VRM versions earlier than 2.0 will not be able to replay recordings from blocks that are recorded with FW 5.50
- Replay via TCP/HTTP tunnel to the BVIP device via NAT is not supported for external iSCSI drives. Local media can still be accessed also via NAT.

5. System Requirements

- Microsoft Internet Explorer 8.0 or higher
- Oracle Java Virtual Machine 1.6.0_26
- DirectX 9.0c
- MPEG-ActiveX 5.20.0045 or newer
- Configuration Manager 4.30.0042 or newer