

## V-Station® HD MODEL COMPARISON CHART July 2022

V-Station HD is designed to provide integrated solutions for multi-channel FHD & 4K video synchronous H.264 recording, live program switching, live streaming (single program and multi-source), editing (on-the-fly & post), and finished delivery of video projects for a variety of end-user applications. Based on FutureVideo's proprietary "project-based workflow", V-Station HD's **Project Media Management (PMM)** software provides the power, flexibility, ease of use, and efficiency to satisfy the creative and analytical needs of clients in Business, Industry, Academia, and Government.

### Producer Capture Packages



**Producer** is a "grab & go" video capture package designed for PC laptops, where portability is important. It comes with a 4-channel video capture device which plugs into a USB3.0 port of the laptop, and accepts a combination of signal inputs, including 4 x 3G/HD SDI; or 3 x 3G SDI, plus one HDMI, Composite, S-Video, DVI/VGA inputs. It includes V-Station HD's proprietary **PMM software** to manage the media assets.

### Studio Capture Packages



**Studio** is the base configuration. It's a 4-channel FHD (1080p) video capture package that comprises 1 x SDI PCIe4 or 1 x HDMI PCIe4 video capture card and V-Station's HD proprietary **PMM software**. **Studio** models can be enhanced to provide a total of 8 channels by upgrading with a 2<sup>nd</sup> Studio PCIe4 video capture card (as shown in photo). Choose from either 4 x FHD channels (3G-SDI or HDMI) or 4 x 4K/UHD channels (6G-SDI or HDMI1.4). To realize the potential of 4 x 4K30 simultaneous recording, a high-performance graphics card (such as a Nvidia Quadro P4000) must be installed in the host PC.

### PMM Software Plug-ins

The modular design of V-Station HD's **PMM software** allows for the inclusion of several plug-ins to provide enhanced capabilities to align with specific client needs. These include: **AutoProducer®**, **Multi-Stream**, **Insta-Vue™**, **Clip Library Browser**, and **Multi-View®**.

### V-Station PostTools™ Software



**PostTools** software is an integrated software package designed for offline collaboration on other PCs for projects recorded on V-Station HD systems. It provides the Clip Library Browser and tools to create a program video from the clips, extract sub-clips, assemble clips together, extract audio, log events, and convert to other formats.

Note: All V-Station HD software products are provided as downloads.

## PART 1: V-STATION HD CAPTURE PACKAGES

	<b>Producer ①</b>	<b>Studio ①</b>
	<b>FVC503</b>	<b>FVC701 (HDMI) FVC702 (SDI-BNC)</b>
	 <p>(UI as shown with AutoProducer plug-in enhancement)</p>	 <p>(UI as shown has 8-channel plug-in enhancements)</p>
Hardware Capability		
Types of video signal inputs	4 x 3G/HD SDI; or 3 x 3G SDI, plus one of: HDMI S-Video, YPbPr, Composite video, DVI/VGA	6G/3G/HD SDI-BNC or HDMI 1/1.4
Types of audio signal Inputs (embedded and synchronized to video)	Digital via HDMI or SDI Analog audio via 4 x 3.5mm phone jacks (line-level) Analog audio via 3.5mm sound card on laptop	Digital via HDMI or SDI Analog audio via 3.5 mm phone jacks (FVC702 only, line-level) Analog audio via 3.5mm sound card on host PC's motherboard
Digital audio capture synchronous with video sources	Yes	Yes
Analog audio capture synchronous with video sources	Yes	Yes
Auxiliary audio (unsynchronized) independent soundtrack recorder	No	Yes WAV or mp3
Recording encoding and container	H.264 High Profile, Constant Bit Rate AAC 128-256 bits, .mp4	H.264 High Profile, Constant Bit Rate AAC 128-256 bits, .mp4
Recording synchronously with up to 4 or 8 video sources	Yes (4 max)	Yes (up to 8 with upgrades)
FHD (1080p) recording up to 40mb/s each channel	Yes (up to 30mb/s)	Yes (up to 40mb/s)
4K/UHD (2160p30) recording up 30mb/s each channel	N/A	Yes ② with FVC748 or FVC750 option
Multi-channel H.264 hardware encoders for simultaneous recording & streaming "point-to-point" live streaming (RTSP and RTMP supported)	No	Yes with FVM711 software plug-in up to 8 multi-channel streams
Switchable H.264 GPU Encoder for multi-cam recording & streaming of Program Out as either "point-to-point" or via web portal (RTSP and RTMP supported). Unlimited viewers via CDN web portal.	Yes 1 multicam switched stream with FVM510 software plug-in	Yes with FVM711 software plug-in 1 multi-cam switched stream
Recording time per channel with 1TB drive ④	Up to 80 hours	4 x 80 hours
Large file support	Up to 50GB	Up to 50GB
Long recording time per file	Up to 24 hours @ 6mb/s	Up to 24 hours @ 6mb/s
Project Media Management (PMM) Software Capability		
Project-based multicam workflow	Yes	Yes
SQL database for organizing, locating, transferring projects and media	Yes	Yes
Multi-View® live preview of all channels with audio monitoring & VU meter	Yes	Yes
Multi-View® live preview on 2 <sup>nd</sup> monitor (full screen supported)	Yes	Yes

Multi-View® playback up to 8 clips (synchronized by time or event)	Yes with FVM512 software plug-in	Yes with FVM712 software plug-in
Settable Record Timer (minutes)	Yes	Yes
Project Creation & Export/Import Backup/Restore (supports 3 level hierarchy)	Yes	Yes
Project & Shot List Export via XML	Yes	Yes
Application Profiles for easy customizing Project's Nomenclature	Yes	Yes
User Definable Video track & Camera names	Yes	Yes
Append Reel and Scene names to clip file names	Yes	Yes
Auto numbering of Clip/Reel/Scene/Shot/Take	Yes	Yes
On-screen Status information (camera source, audio source, bit rate, resolution, recording status & colors)	Yes	Yes
Recorded Timers (Time-of-Day, Time Code, Elapsed Time)	Yes	Yes
Burn-in Time-of-Day on video clips	N/A	Yes
AutoProducer® with channel switching to Program out record track, live streaming, 6 transition effects & 8 image stores, and EDL	Yes 4 channels / 5 tracks with FVM510 software plug-in	Yes Up to 8 channels / 9 tracks with FVM710 software plug-in
Social network streaming (YouTube Live and Facebook Live streaming supported)	Yes with FVM510 software plug-in	Yes with FVM711 software plug-in
FTP/YouTube File Uploader built-in	Yes with FVM510 software plug-in	Yes with FVM710 or FVM712 software plug-in
Multi-function media player with playout to 2 <sup>nd</sup> monitor	Yes	Yes
B-Roll player with Picture-in-Picture (PiP)	Yes with FVM510 software plug-in	Yes with FVM710 software plug-in
Playlists for each recorded video track organized by each project	Yes	Yes
Event Logger for marking/tagging (live & playback)	Yes	Yes
Clip Library Browser ③	Yes with FVM511 software plug-in	Yes (included)
Project transfer to Adobe Premiere, Final Cut Pro (v7) and Vegas Pro via XML	Yes with FV510 software plug-in	Yes with FVM710 software plug-in
Hot-Key (shortcuts) for most functions	Yes	Yes
Periodic software updates & hardware upgrade path	Software Updates	Yes
Automatic oldest clip deletion during recording	Yes	Yes
All channel Instant Replay/Review with movable PIP	N/A	Yes with FVM713 software plug-in
Segmented Continuous Recording	N/A	Yes with FVM713 software plug-in
1-year limited warranty & software updates	Yes	Yes

## NOTES

- ① V-Station HD Studio and Producer series Multi-channel Video Capture Packages require a compatible user-supplied host PC.
- ② If upgrade to 4K30 with additional high-end graphics card: provides total of 8 channels (4 x 4K + 4 x FHD); without provides 6 channels FHD + 2 channels of 4K.
- ③ Also included in PostTools software.
- ④ Recommend 2 drive system with 1TB SSD external or internal data storage drive (D:) for holding large video files (USB 3.0 external drive or internal secondary drive).

## PART 2: V-STATION HD SOFTWARE

<b>AutoProducer® Live Production Plug-in</b>	<b>Clip Library Browser Plug-in ①</b>	<b>Multi-Stream Live Multi-channel Encoding &amp; Streaming Plug-in</b>
<b>FVM510 (Producer) FVM710 (Studio)</b>	<b>FVM511 (Producer)</b>	<b>FVM711 (Studio)</b>
Typical Application: Live events	Typical Application: Post	Typical Application: Live events needing to be streamed
Comprises program switching, live program out streaming & creating a program (line-cut) recording, EDL creation, transition effects and picture store. Provides RTMP and RTSP multicast (multiple destinations) & unicast (point-to-point) live streaming to YouTube, Facebook, third-party CDNs (e.g., Wowza). Adds Program playback to FV MediaPlayer, and ability to upload to YouTube or FTP site the program recordings.	Comprises filtering by Projects, classifications and sub-classifications with playlist creation from multiple projects. Includes media player, metadata display of each clip. Works with Multi-View and AutoProducer Plug-ins.	Provides point-to-point RTSP or RTMP streaming simultaneously on every channel. Hardware H.264 encoding up to 40 Mbps on each channel, or GPU encoding selectable in various resolutions, frame rates, and video bit rates.
<b>Multi-View® Post Observation &amp; Analysis Plug-in</b>	<b>Insta-View™ Live Instant Video Replay &amp; Review Plug-in</b>	<b>V-Station HD PostTools™</b>
<b>FVM712 (Studio) FVM512 (Producer)</b>	<b>FVM713 (Studio)</b>	<b>FV0423</b>
Typical Application: Analytical	Typical Application: Analytical, Sports	Typical Application: Collaborative, Offline Post
Comprises AutoProducer post-editor and Multi-View synchronizing video player, with the ability to (re-) create new line-cuts from original footage, logging, creating sub-clips from original video, extracting audio, inserting audio into program recording, content uploader for YouTube and other share sites. Rendering in MPEG2, MJPEG, MPEG-4, and H.264 in various formats.	Provides instant replay on all channels during recording. Displays replay video in moveable Picture-in-Picture (PiP) output to a program monitor.	Offline post-production software for PCs. Provides Clip Library Browser, multicam playback and editing, logging, and video asset management, along with project collaboration capabilities for offline workflow on projects recorded on V-Station HD systems Single User License. Multiple user licenses available.

### NOTES

① Included in PostTools PC Software.

## PART 3: HOST COMPUTER REQUIREMENTS

[Use this link to access the V-Station HD Minimum Host Computer Requirements Document.](http://futurevideo.com/vstationHD/V-Station_HD-CP_Minimum_Host_Computer_Requirements.pdf)

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### NOTES