HARMAN
MEDIA SUITE

DATA SHEET

PRODUCT SPECIFICATIONS

TURN AVERAGE EMPLOYEES INTO VIDEO PRODUCERS AND ANY WORKSPACE INTO A MEDIA STUDIO

The way we work is changing

Organizations across the globe need to create quality recordings and webcasts to support training, corporate communications, and knowledge management initiatives cost-effectively, without requiring employees to be experts in video production.

HARMAN Media Suite, an enterprise recording, webcasting and portal solution, makes it easier than ever to use existing videoconferencing endpoints to reach hundreds or even thousands of viewers with live webcasts or recorded video assets.

Simple end user experiences

We start by enabling recording and streaming from your entire video network, which includes standards-based videoconferencing solutions, desktop and mobile devices. Easy, self-service workflows enable anyone in the organization to create, share, and stream videos. Additionally, users can upload, share and playback content from many other sources.

Viewing video content is just as easy, with a portal experience delivered through the simplicity of a browser or the convenience of an application. Media Suite offers tight integration with videoconferencing solutions, allowing users to playback video on demand content into a multiparty meeting or conference room.

Benefits

Reach viewers in any workspace, on any device - Deliver live or on-demand video in any workspace or device through browsers or mobile application

- **Mobile Application** - Ease the access to videos by using Android® & iOS® based Media Suite mobile application
- **Cloud Deployment** - Available on Azure® cloud, which allows reduction in capex costs and in deploying video content portal on the cloud

Increase ROI of your existing videoconferencing investments - Recording, sharing and streaming from your entire video network drives adoption and new use cases

- **Integrations** - Wide choice of MCUs that the Media Suite integrates with – whether on-premise (Polycom / Cisco) or cloud-based (Bluejeans / GoTo / WebEx/Zoom). We also integrate with Microsoft Teams® via Microsoft certified partners for cloud video interoperability
- **Multivariant encoder support** - webcasting from streaming protocols (RTMP/RTSP) based hardware and software

Choice, flexibility and scale - Natively support 50,000 web viewers, or leverage 3rd party content delivery solutions like Akamai, Verizon Edgecast and Wowza Media Systems

- **LTI® Certification** - Leverage the power of videos using your favorite LMS through the LTI® certified Media Suite
- **Facial Recognition** - Allow searching for registered face profiles in the video archives on the Media Suite portal and enable live tracking of face profiles in an ongoing live video feed

Flexibility and Scale
Media Suite provides IT organizations with recording flexibility and streaming scalability. With a complete solution for eCDN delivery, organizations can optimize how video is routed over their network to branch locations or choose to leverage best-of-breed 3rd party content delivery solutions.

Additionally, a distributed architecture enables Media Suite to support recording for up to 100 concurrent video sessions, stream up to 50 live events and reach up to 50,000 web viewers.

Mobile Application
Media Suite mobile application is available for Android & iOS variants. Users can now enjoy various product features on-the-go. Ranging from viewing a VoD or a stored recording, scheduling an event or starting a mobile live session, everything is possible through the application period.

LTI Compliance
The LTI compliance meets the necessary specifications to integrate with other compliant LMS systems of end user's choice. LTI integration makes the use of lecture capture technology seamless, both for instructors initiating capture in their classrooms and students who need to view lecture capture videos.

RTSP/RTMP Encoder Support
Media Suite, an enterprise recording, streaming and content management solution, provides an option to use RTSP/RTMP encoders for enabling the delivery of real-time media, in addition to the traditional end points based on H.323/SIP live streaming.

Video Analytics
Media Suite enhanced by video analytics – facial recognition capabilities can now allow searches based on the photograph of your favorite personality cutting through video footage, directly to the point of interest. Live tracking person-of-interest is especially useful in video surveillance scenarios.

Multifarious Models – Deployment and Licensing
The requirement for high quality video cuts across industry verticals. This presumes the need to support multiple deployment and licensing models. Media Suite supports deployment models that are based on perpetual or subscription licensing, on-premise or public cloud (Microsoft® Azure®). Additionally, Media Suite can integrate with various video conferencing solutions, on-premise (Polycom/Cisco) or cloud- based (Microsoft Teams/Bluejeans / GoTo / WebEx/Zoom).

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MEDIA SUITE - APPLICATION HIGHLIGHTS

Solution Features	Media Suite	Media Suite Pro High Capacity
End-user self service recording work flows	✓	✓
Point to point and 2 end point recording without a bridge	✓	✓
Multi point recording with a bridge/MCU	✓	✓
Admins can create recording templates to specify layout of recordings	✓	✓
Closed caption (CC) user generated or via preferred captioning provider	✓	✓
Transcription and closed caption service via 3rd party integration	✓	✓
Records from standards-based SIP and H.323 end points	✓	✓
Records from on-premise and cloud hosted MCUs	✓	✓
Support for high quality audio/video codec	✓	✓

Recording Experiences

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MEDIA SUITE - APPLICATION HIGHLIGHTS

Solution Features	Media Suite	Media Suite Pro High Capacity
Browser based Enterprise portal access for PC, Mac, iOS and Android users	✓	✓
SSO (Single Sign On) and IWA (Integrated Windows Authentication) support	✓	✓
User alerts for system capacity once license threshold is reached	✓	✓
Embedded player support (HTML5 and Flash)	✓	✓
Multi-track player with interactive features	✓	✓
Immediate access to user archives with access to personal or published video archives	✓	✓
Share recordings and media to public or private channels	✓	✓
Hidden VMR / far end address in live event normal viewer mode	✓	✓
Display screen image support in pre-live event stream	✓	✓
Display archive shared channel list in archive properties page	✓	✓
Admin capabilities: channel edit, archive search by duration, share link for an archive	✓	✓
Configurable multiple simultaneous content distribution methods	✓	✓
Key word search for videos, channels or users	✓	✓
Video playback to any standards based H.323 or SIP endpoint or MCU	✓	✓
Transcodes all video calls to H.264 (.mp4), WMV video format, or m4a audio	✓	✓
VMR auto publish to My Media Center	✓	✓
Auto-generates thumbnail index from video, adds timecode watermark to video	✓	✓
Participant count in ongoing live event control room	✓	✓

Portal Experiences

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MEDIA SUITE - APPLICATION HIGHLIGHTS

	Solution Features	Media Suite	Media Suite Pro High Capacity
Streaming	Standard Recording, Streaming & Playback 1080p30 in all base models	✓	✓
	Live stream URL failover	✓	✓
	Recording, Streaming & Playback resolution Configurable templates to specify multiple bit rates, video formats and devices that deliver high-quality, high-resolution live and VOD experiences	✓	✓
	Unicast and Multicast support	✓	✓
	3rd Party CDN Support (Akamai, Verizon Edgecast, Wowza Media Systems)	✓	✓

	Solution Features	Media Suite	Media Suite Pro High Capacity
Management and Integration	Support for standards based SIP/H.323 Gatekeepers, Gateways, and MCUs, including Polycom® RealPresence® DMA	✓	✓
	Policy controlled manual or automatic backup	✓	✓
	Off system storage to FTP server, and ability to auto-archive	✓	✓
	Customizable roles and permissions	✓	✓
	Active Directory integration - access and viewer permissions for users and AD groups	✓	✓
	Automatically publish recordings to specific private or public channels	✓	✓
	Mobile Application	Add on option	Add on option
	Streaming protocols RTMP/RTSP interface	Add on option	Add on option
	Microsoft Teams Integration	Add on option	Add on option

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Management and Integration		Media Suite	Media Suite Pro High Capacity
	Zoom Integration	Add on option	Add on option
	Cisco Webex Integration	Add on option	Add on option
	BlueJeans Integration	Add on option	Add on option
	GoToMeeting Meeting Integration	Add on option	Add on option
	LTI® Integration	Add on option	Add on option

MEDIA SUITE - APPLICATION HIGHLIGHTS

	Solution Features	Media Suite	Media Suite Pro High Capacity
Portal Experiences	Individual user video media & live event statistics	Available with Pro Add On Or Upgrade to High Capacity Pro Model	✓
	Media Editing (trim-head/tail, split, overlay)		✓
	Embed code support		✓
	Custom transcoding support for UCG & Media Editing		✓
	Distributed architecture		✓
	Multicast in scalability mode and hierarchical streaming		✓
	Easy Capture local streaming and recording with webcam and/or screen capture		✓
	Pre-event workflows for end-users		✓
	User self-service live webcasting wizard		✓
	Auto start/end scheduled live event		✓
	Schedule one-time or recurring recording or live stream sessions		✓
	Content expiration control		✓
	Document/Image file attachments supporting popular formats to video archive		✓
	eCDN support for up to 50,000 streams across 50 geo-location nodes		✓
	Monitor & manage distributed clustered machines with a single admin portal		✓

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MEDIA SUITE - APPLICATION HIGHLIGHTS

	Solution Features	Media Suite Platinum
Platinum Options	Content Approval & Publishing	Available with Media Suite Platinum license
	Individual Survey/Test statistics	
	Moderated Q & A during live events	
	Manual Ratings and Content Popularity	
	Online survey, test and certificate support	
	User Usage & Engagement Statistics on System Access/Usage	

MEDIA SUITE - MODELS AND OPTIONS

The Product Licensing Model

Configuration	Recording Ports	Live Streaming Ports	Deployment Options
Media Suite 2/1	2	1	Virtual Edition
Media Suite 6/3	6	3	
Media Suite 12/6	12	6	
Media Suite 18/9	18	9	
Media Suite Pro 24/12	24	12	
Media Suite 40/0	40	0	

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Configuration	Recording Ports	Live Streaming Ports	Deployment Options
Media Suite Pro 60/30	60	30	Virtual Edition
Media Suite Pro 100/50	100	50	
6/3 Call Capacity Upgrade License	6	3	
Media Suite Pro License	NA	NA	Add on to all Media Suite Virtual Edition
Media Suite Platinum License	NA	NA	Add on to Media Suite Virtual Edition Pro license systems
Media Suite Platinum Upgrade License	NA	NA	Upgrade from Basic license to Platinum license directly
Media Suite Stream Upgrade 500 viewers	NA	NA	Add on to all Media Suite Virtual Edition
Streaming protocols RTMP/RTSP interface	NA	NA	Add on to all Media Suite Virtual Edition
Microsoft Teams Integration	NA	NA	Add on to all Media Suite Virtual Edition
Zoom Integration	NA	NA	Add on to all Media Suite Virtual Edition
Cisco Webex Integration	NA	NA	Add on to all Media Suite Virtual Edition
BlueJeans Integration	NA	NA	Add on to all Media Suite Virtual Edition
GoToMeeting Meeting Integration	NA	NA	Add on to all Media Suite Virtual Edition
LTI® Integration	NA	NA	Add on to all Media Suite Virtual Edition
Video Analytics (Facial Recognition)	NA	NA	Add on to all Media Suite Virtual Edition

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MEDIA SUITE - MODELS AND OPTIONS

The User Licensing Model

Configuration	Recording Ports	Live Streaming Ports	Deployment Options
Upto 500 User Licenses	4	2	Virtual Edition, Cloud Edition
500 – 1,400 User Licenses	12	6	
1,500 – 2,900 User Licenses	18	9	
3,000 – 4,900 User Licenses	30	15	
5,000 – 10,000 User Licenses	60	30	
10,000 – 50,000 User License	100	50	
Media Suite Pro License	NA	NA	Included in the user licenses
Media Suite Platinum License	NA	NA	Included in the user licenses
Media Suite Platinum Upgrade License	NA	NA	Included in the user licenses
Media Suite Stream Upgrade 500 viewers	NA	NA	Virtual Edition, Cloud Edition
Streaming protocols RTMP/RTSP interface	NA	NA	Add on to all Media Suite Virtual Edition
Microsoft Teams Integration	NA	NA	Add on to all Media Suite Virtual Edition
Zoom Integration	NA	NA	Add on to all Media Suite Virtual Edition
Cisco Webex Integration	NA	NA	Add on to all Media Suite Virtual Edition
BlueJeans Integration	NA	NA	Add on to all Media Suite Virtual Edition
GoToMeeting Meeting Integration	NA	NA	Add on to all Media Suite Virtual Edition
LTI® Integration	NA	NA	Add on to all Media Suite Virtual Edition
Video Analytics (Facial Recognition)	NA	NA	Add on to all Media Suite Virtual Edition

Note1: User license corresponds to 1 stream.

Note 2: The user licensing model is an all-inclusive model and includes the Pro and Platinum features

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SUPPORTED PROTOCOLS

Recording	Streaming	

• Call protocols: H323, SIP
 	
• Video codecs: H.264, H.264 HP, H.263, H.263+, H.261
 	
• Content protocols: H.239 in a H.323 call, BFCP in a SIP call, up to 1080p30
 	
• Audio codecs: G.711, G.722, G.722.1 and G.722.1C, G.729A, Siren 14 (mono & stereo), Siren 22 (mono & stereo), Siren LPR (mono & stereo)
 	
• User Generated Content (UGC) supported file formats: MP4, MOV, RAW, WMV, M4A (audio only)
 	
• Supported bitrate range: Up to 4M, if bitrate is less than 128K, then it is audio only call
 	
• RTSP / RTMP based encoder support
 	
• Supported resolutions (recording): People Video - 1080p30, 720p, 4CIF, CIF - Content Video - H.263: XGA (30); H.264: 1080p30, 720p30
	• Native streaming engine built-in
	
	• Media formats & protocols:
	  ✓ .wmv, MP4 unicast via RTSP
	  ✓ H.264 (MP4) unicast via HLS (HTML5 player on iPhone / iPad /Android mobile)
	  ✓ H.264 (MP4) unicast via RTSP (Harman Media Suite player on PC/MAC, or HTML5 player on Android with old version)
	  ✓ H.264 (MP4) multicast via MP2TS player
	
	• Advanced Content Distribution
	  ✓ Akamai
	  ✓ Verizon Edgecast
	
	• Certified CDNs/external streaming server media formats and protocols
	  ✓ Akamai (input: RTMP, output: RTMP/HLS)
	  ✓ Edgecast (input: RTMP, output: HDS)
	  ✓ Wowza Media 4 (input: RTSP/RTMP, output: RTSP/RTMP/HLS)
	  ✓ FTP server (off-system storage only)
		• Media Players
		  ✓ Harman Media Suite Player
		  ✓ HTML5 Player
		  ✓ Flash Player
		  ✓ Media Player for WMV unicast
		  ✓ H.264 (MP4) unicast and HLS (Akamai) with Polycom player (PC/ MAC) or HTML5 player on mobile
		  ✓ H. 264 (MP4) multicast with Polycom player (PC/MAC)
		
		• TLS v1.2/SSL and HTTPS support
		
		• SNMP monitoring
		
		• AES media encryption including SRTP Encryption (SRTP - AES 128/256) and secured signaling (TLS - 1024)
		
		• CSR compliant support
		
		• Secure software package delivery
		
		• LDAP / Active Directory support
		
		• Customizable user authentication
		
		• Android & iOS mobile application

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SUPPORTED PROTOCOLS

High Availability

- Media Suite Center using VMWare HA

- Only on Virtual Editions

Localization Support

- Multi-language support for end user navigation and administrators

Cloud Edition

- Deployed on Microsoft® Azure®

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ABOUT HARMAN

HARMAN (harman.com) designs and engineers connected products and solutions for automakers, consumers, and enterprises worldwide, including connected car systems, audio and visual products, enterprise automation solutions; and services supporting the Internet of Things. With leading brands including AKG®, Harman Kardon®, Infinity®, JBL®, Lexicon®, Mark Levinson® and Revel®. HARMAN is admired by audiophiles, musicians and the entertainment venues where they perform around the world. More than 50 million automobiles on the road today are equipped with HARMAN audio and connected car systems. Our software services power billions of mobile devices and systems that are connected, integrated and secure across all platforms, from work and home to car and mobile. HARMAN has a workforce of approximately 30,000 people across the Americas, Europe, and Asia. In 2017, HARMAN became a wholly-owned subsidiary of Samsung Electronics Co., Ltd.

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