

Parameters	videoReferee®-AV	videoReferee®-AVM
Video Inputs		
HD SDI	12 / 16*	16
3G* SDI	12 / 16*	16
Video Formats		
HD SDI	29.97/59.94 Hz: 1920×1080/59.94i, 1920×1080/29.97PsF, 1280×720/59.94p 25/50 Hz: 1920×1080/50i, 1920×1080/25PsF, 1280×720/50p	
3G SDI	1920x1080/59.94p, 1920x1080/119.88i, 1920x1080/50p, 1920x1080/100i	
	Support of 16:9 and 4:3	
Simultaneous operational channels		
Recording	12 / 16 *	16
Search or Payout	1 / 2 / 3 / 4 Search or 1 Payout	
Video Standards		
HD SDI	HD video conforms to SMPTE 292M, SMPTE 274 720p video conforms to SMPTE 296M	
3G SDI	3G video conforms to SMPTE 424M / SMPTE 425M	
Output for 2nd referee’s monitor		
Display Port	2 / 4 *	
Referee output for broadcast **		
	HD-SDI	
Multiviewer		
	Up to 13 video windows. (12 cameras + 1 Referee output); 2 Layouts; Built-in gesture control (when using a multi-touch monitor); Option Delay Mode 3s	Up to 17 video windows. (16 cameras + 1 Referee output); 2 Layouts; Built-in gesture control (when using a multi-touch monitor); Option Delay Mode 3s
Gesture control **		
	Embedded touch screen control	
Compression		
Recording	I-Frame DCT Based	
Export formats	M2TS; MPEG-4 (*.mp4); H264 (*.mp4); XDCAM HD422 50Mbps (*.mxf) (for HD only)	

Parameters	videoReferee®-AV	videoReferee®-AVM
Internal storage		
Type	SSD	
Capacity	160 hours of Full HD video at 100 Mbps 80 hours of 3G video at 200 Mbps	
Audio Inputs		
	2 embedded *** audio channels per video channel	
When using mini-vR-Cam cameras	2 audio sources per camera	
Audio Outputs		
	MB audio output / DP	
Referee workplaces (each additional workstation is equipped with a remote control)		
	1	1 / 2 *
Scoreboard Interface ****		
	Yes / PIP from any camera	
Controls		
	Specialized Jog/Shuttle controllers Control-VR (via RS-232 /RS-485 / USB / Ethernet), keyboard, mouse Second workplace* – an additional independent workstation for quickly resolving disputes, working in parallel, or supervising. Remote workplace with a wireless tablet* for medical staff to monitor athletes' conditions. Remote workplace* – can be used for easy integration into VAR center solutions.	
Referee buttons		
	Up to 4pcs.: • Green – mark events; • Red – intercom control; • Blue – timer control. Via USB connection.	
Virtual offside lines (VOL)		
	Built-in VOL SLOMO.TV, Integration with Delta-offside (Deltacast)	
Referee intercom integration		
	Yes Native Vokkero support with adjustable audio level control	
Additionally		
	Ability to network with SLOMO.TV servers	

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Data exchange		
Ethernet	10 GbE (RJ-45)	
USB 3.0 / NAS	External file storage	
DMR™ RACK	1 Built-in trayless/toolless 3.5" SATA HDD Rack	
Maximum distance of connections		
SDI	Up to 110 m	
3G SDI	Up to 90 m	
Control	Up to 150 m	
DP	Up to 5 m	
Power		
Voltage	110V/60Hz or 220V/50Hz	
Consumption	120 W	
Additionally	Redundant PWR Supply*	
Physical Parameters		
Chassis	2U, 19"	
Dimensions (H x W x L)	88 mm × 482 mm × 512 mm	
Weight	12 kg	
Temperature		
Operating	+12°C to +29°C (53.6°F to 84.2°F)	
Storage	+5°C to +40°C (41°F to 104°F)	
Humidity		
Operating / storage	20% to 80%	
Notes: * – Optional. ** – Touchscreen monitor not included. Recommended: liyama multi-touch monitor. *** – Embedders are not included. **** – Supported: Westerstrand, Nautronic NTpult, Nautronic NAUCON-1000, Bodet, Omega Saturn, Megalux, NatalInfo, Victory, VITA, Araneus–NGLight, ElTablo, Stramatel, Colosseo, CEDR, Favero Console-700, Control-MC.		