videoReferee®-4 / 4A / 4G
Technical characteristics

Parameters	videoReferee®-4	videoReferee®-4A	videoReferee®-4G
Inputs SDI			
HD / SD	16	16	16
3G*	–	–	16
Video Formats			
HD / SD SDI	29.97/59.94Hz based: 1920x1080/59.94i, 1920x1080/29.97PsF, 1280x720/59.94p, 720x480/29.97PsF, 720x480/59.94i 25/50Hz based: 1920x1080/50i, 1920x1080/25PsF, 1280x720/50p, 720x576/25PsF, 720x576/50i Support of 16:9 and 4:3 modes		
3G SDI	—		1920x1080/59.94p, 1920x1080/119.88i, 1920x1080/50p, 1920x1080/100i
Channels (simultaneously)			
HD / SD	16 Recording + 4/1 Search or 1 Playout		16 Recording + 4/1 Search or 1 Playout
3G*	—		16 Recording + 4/1 Search or 1 Playout
Video Standards SDI			
HD / SD	HD video conforms to SMPTE 292M, SMPTE 274 720p video conforms to SMPTE 296M SD video conforms to SMPTE 259M		
3G	—		3G video conforms to SMPTE 424M / SMPTE 425M
Interface monitor	4 (via Display Port)		
Referee output for broadcast**	HD SDI		
Multiviewer	Up to 18 video windows. 2 Layouts		
Gesture control ***	Yes**		
Referee workplaces	1 + 1** (Each additional WP is equipped with vR-Control console)		
Separate engineering workplace	Yes		
Audio Inputs	2 embedded audio channels per video channel (embedders are not included)		

Parameters	videoReferee®-4	videoReferee®-4A	videoReferee®-4G
Audio Outputs	MB audio output / DP		
Internal storage	HDD / SSD		
Storage capacity	16 / 32 TB HDD or 8 / 16 / 32 TB SSD 84 / 168 / 336 hrs. Full HD video		
Scoreboard Interface****	Yes / PiP from any camera		
Compression:			
Recording	I-Frame DCT Based		
Export formats	M2TS; MPEG-4 (*.mp4); H264 (*.mp4); DVD XDCAM 50 (*.mxf) (only for HD)		
Controls	Specialized Jog/Shuttle controllers vR-Control (via RS-232 / RS-485 / USB / Ethernet), Specialized keyboards videoReferee®-Keypad, keyboard, mouse		
Additionally	Ability to network with slomo.tv servers		
Data exchange	1 GbE (Network); Built-in trayless/toolless 3.5" SATA HDD Rack; USB 3.0/eSATA (External HDD Box)		
DMR™ RACK	1		
Control from HQ via Internet	Yes		
Maximum distance of connections	SDI up to 110m; Control up to 150m; DP up to 5m		SDI up to 110m; 3G-SDI up to 90m; Control up to 150m; DP up to 5m
Power Consumption	350 W	120 W	350 W
Power	110V/60Hz or 220V/50Hz Redundant PWR Supply		
Chassis	4U, 19"	2U, 19"	4U, 19"
Dimensions (H x W x L) mm	176.5 x 484 x 591	88 x 482 x 512	176.5 x 484 x 591
Weight Kg	27.7 / 19.5	14	27.7 / 19.5

Notes:

* – 3G SDI Level A, Level B support.

** – optional.

*** – Touch screen monitor is provided by user. Recommended: Iiyama multi-touch monitor.

**** – Supported: Westerstrand, Nautronic NTpult, Nautronic NAUCON-1000, Bodet, Omega Saturn, Megalux, NataInfo, Victory, VITA, Araneus–NGLight, ElTablo, Stramatel, Coliseum, CEDR, Favero Console-700.