Supported medias formats				DMB400	SMA300	DME204	SMT2.10	SMA300	nt_ia32, nt5_ia32	DMB300, DMC200	SMA200, SMT210, SMT220
				V4.10.10+	V4.10.12+	V4.10.14+	V4.10.16+	V3.12.20+	V3.12.10+	V3.12.10+	V3.12.10+
Container	Track	Mime Type	File extensions								
Still Image											
JFIF / jpeg		image/jpeg	.jpg	✔	✔	✔	✔	✔	✔	✔	✔
Plain EXIF / jpeg		image/jpeg	.jpg	✔	✔	✔	✔	✔	✔	✔	✔
JPEG2000 Part 1 (JP2)		image/jp2									
JPEG2000 Part 2(JPX)											
JPEG2000 Part 6 (JPM)											
png		image/png	.png, .apng	✔	✔	✔	✔	✔	✔	✔	✔
gif		image/gif	.gif	✔	✔	✔	✔	✔	✔	✔	✔
svg		image/svg+xml	.svg	✔	✔	✔	✔	✔	✔	✔	✔
Html											
html4		text/html	.html,.htm	✔	✔	✔	✔	✔	✔	✔	✔
html5		text/html	.html,.htm	✔	✔	✔	✔	✔	✔	✔	✔
W3C Widget		application/widget	.wgt	✔	✔	✔	✔	✔	✔	✔	✔
maff		application/x-maff	.maff, .maf	✔	✔	✔	✔	✔	✔	✔	✔
webgl									✔		
epub		application/epub+zip	.epub								
Adobe Flash											
swf 10	graphic opaque	application/x-shockwave-flash	.swf						✔	✔	✔
	graphic transparent								✔		
	audio								✔	✔	
	vidéo								✔	✔	
MS-Powerpoint											
	Maximum number of MS-Powerpoint média at a time			**1**	**1**	**1**	**1**	**1**	**1**	**1**	
2003	graphic	application/vn.ms-powerpoint	.ppt, .pps						✔	✔	
	audio										
	video										
2007 - 2016	graphic		.pptx, .ppsx	✔	✔	✔	✔		✔	✔	
	audio										
	video										
Pdf											
pdf	graphic RGB	application/pdf	.pdf	✔	✔	✔	✔	✔	✔	✔	✔
	graphic CMJK										
	annotation										
	postscript										
Open Document Format (OASIS)											
odf	presentation	application/vnd.oasis.opendocument.presentation	.odp								
	Texte formaté	application/vnd.oasis.opendocument.text	.odt								
Text											
txt (*)	static	text/plain	.txt	✔	✔	✔	✔	✔	✔	✔	✔
	scrolling	text/plain	.txt	✔	✔	✔	✔	✔	✔	✔	✔
Audio/video											
	Maximum number of video at the same time			**2***	**1**	**1**	**1**	**1**	**1**	**1**	**1**
MPEG-4	video MPEG-4.10 (H264/AVC)		.mp4,.m4v,.m4a	✔	✔	✔	✔	✔	✔	✔	✔
	video MPEG-4.2 (Divx)			✔	✔	✔	✔	✔	✔	✔	✔
	video HEVC (H265)			✔							
	video WMV7 (codec WMV1)										
	video WMV8 (codec WMV2)										
	video WMV9 (codec WMV3)										
	video WMV9 adv. profile (VC1)										
	audio MPEG-1 layer1/2										
	audio MPEG-1 layer3 (MP3)			✔	✔	✔	✔	✔	✔	✔	✔
	audio AAC			✔	✔	✔	✔	✔	✔	✔	✔
	audio AC3	audio/ac3		✔	✔						
QUICKTIME	video MPEG-4.10 (H264/AVC)		.mov	✔	✔	✔	✔	✔	✔	✔	✔
	video MPEG-4.2 (Divx)			✔							
	video HEVC (H265)			✔							
	video WMV7 (codec WMV1)										
	video WMV8 (codec WMV2)										
	video WMV9 (codec WMV3)										
	video WMV9 adv. profile (VC1)										
	audio MPEG-1 layer1/2										
	audio MPEG-1 layer3 (MP3)			✔	✔	✔	✔	✔	✔	✔	✔
	audio AAC			✔	✔	✔	✔	✔	✔	✔	✔
	audio AC3			✔							
MPEG-2 PS	video MPEG-2		.vob, .mpg, .mpeg, .m2v, .ps	✔	✔	✔	✔	✔	✔	✔	✔
	video MPEG-4.10 (H264/AVC)			✔	✔	✔	✔	✔	✔	✔	✔
	video MPEG-4.2 (Divx)										
	audio MPEG-1 layer1/2			✔	✔	✔	✔	✔	✔	✔	✔
	audio MPEG-1 layer3 (MP3)										
	audio AC3										
	audio AAC			✔	✔	✔	✔	✔	✔	✔	✔
MPEG-2 TS	video MPEG-2		.ts	✔	✔	✔	✔	✔	✔	✔	✔
	video MPEG-4.10 (H264/AVC)			✔	✔	✔	✔	✔	✔	✔	✔
	video MPEG-4.2 (Divx)			✔	✔	✔	✔	✔	✔	✔	✔
	video HEVC (H265)			✔							
	audio MPEG-1 layer1/2										
	audio MPEG-1 layer3 (MP3)										
	audio AC3			✔	✔	✔				✔	
	audio AAC			✔	✔	✔	✔	✔	✔	✔	✔
ASF	video WMV7 (codec WMV1)		.asf, .wmv, .wma								
	video WMV8 (codec WMV2)										
	video WMV9 (codec WMV3)	video/x-ms-wmv		✔	✔	✔		✔		✔	
	video WMV9 adv. profile (VC1)				✔	✔		✔	✔	✔	
	audio WMA	audio/x-ms-wma		✔	✔	✔	✔	✔		✔	
MP3	audio MPEG-1 layer3 (MP3)		.mp3	✔	✔	✔	✔	✔	✔	✔	✔
Matroska	video VP9		.mkv, , .mka, .mks	✔							
	video VP8			✔							
	video THEORA										
	video HEVC (H265)			✔							
	audio VORBIS			✔							
	audio OPUS										
	audio MP3										
	stereoscopic video		.mk3d								
	text										
Webm	video VP9		.webm	✔							
	video VP8			✔							
	video HEVC (H265)			✔							
	audio VORBIS			✔							
	audio OPUS										
	audio MP3										
	text										
Ogg	video THEORA		.ogg .oga .ogv								
	audio VORBIS										
	audio FLAC										
	audio PCM										
	voice SPEEX										
	text KATE (karaoke)										
MXF	video		.mxf								
	audio										
	subtitle										
F4V	video MPEG4.10 (H264/AVC)		.f4v								
	audio MPEG Layer 3										
	audio AAC										
FLV	video VP6		.flv								
	audio MPEG Layer 3										
	audio AAC										
	video MPEG4.10 (H264/AVC)										
AVI	video MPEG-2		.avi	✔		✔		✔	✔	✔	✔
	video MPEG-4.10 (H264/AVC)			✔		✔		✔	✔	✔	✔
	video MPEG-4.2 (Divx)			✔		✔		✔	✔	✔	✔
	audio MPEG Layer 1/2			✔		✔		✔	✔	✔	✔
	audio MPEG Layer 3			✔		✔		✔	✔	✔	✔
	audio AAC			✔		✔		✔	✔	✔	✔
MJPEG			.mjpg								
MJPEG2000											

* With limitations. Please see after the dual-decoding limitations for the DMB400 device

The table shows the type of medias supported by each Innes device. The functional tests are done following this table. In case the device is used outside this configuration, no claim could be commercially reported to Qeedji. Qeedji can not warranty the exact rendering of the media played, especially if several medias are played at the same time, because each media like Web page, MS-Powerpoint, PDF, Widget or video requires not deterministic system resources

				DMB400	SMA300	DME204	SMT210	SMA300	nt_ia32, nt5_ia32	DMB300, DMC200	SMA200, SMT210, SMP200
				V4.12.10+	V4.12.10+	V4.12.10+	V4.10.16+	V3.12.20+	V3.12.10+	V3.12.10+	V3.12.10+
Supported ressources (1)											
Container	Track	Mime Type	File extensions								
		text/csv	.csv	✔	✔	✔	✔	✔	✔	✔	✔
		text/tab-separated-values	.tsv	✔	✔	✔	✔	✔	✔	✔	✔
		text/plain	.txt	✔	✔	✔	✔	✔	✔	✔	✔
		text/x-markdown	.md								
		application/vnd.ms-excel	.xls	✔	✔	✔	✔	✔	✔	✔	✔
		application/vnd.openxmlformats-officedocument.spreadsheetml.sheet	.xlsx	✔	✔	✔	✔	✔	✔	✔	✔
		text/xml, application/xml	.xml	✔	✔	✔	✔	✔	✔	✔	✔
		application/x-json	.json	✔	✔	✔	✔	✔	✔	✔	✔
		text/javascript	.js	✔	✔	✔	✔	✔	✔	✔	✔
		text/css	.css	✔	✔	✔	✔	✔	✔	✔	✔
		text/calendar	.ics	✔	✔	✔	✔	✔	✔	✔	✔
		-	.ttf	✔	✔	✔	✔	✔	✔	✔	✔
		-	.otf	✔	✔	✔					
		-	.eof	✔	✔	✔					
		-	.woff	✔	✔	✔					
		text/vtt	.vtt	✔	✔	✔	✔				
		text/srt	.srt	✔	✔	✔	✔				
		video/smooth-streaming	.ismc								
		video/rtp	.sdp	✔	✔	✔					
		video/dash	.mdp	✔	✔	✔					
		-	.ini								
		-	.db								
		-	.xmp								
		-	.xmpz								
		audio/x-mpequrl	.m3u								
		NC	.xspf								
Supported protocols											
Container	Track	Mime Type	File extensions								
file				✔	✔	✔	✔	✔	✔	✔	✔
http(s)				✔	✔	✔	✔	✔	✔	✔	✔
ftp				✔	✔	✔	✔	✔	✔	✔	✔
jar				✔	✔	✔		✔	✔	✔	✔
DVB-T receiver											
SMB (CIFS V1.0)				✔	✔	✔					
SMB (CIFS V2.0)				✔	✔						
UDP				✔	✔	✔		✔	✔	✔	✔
RTP/MPEG Transport Stream				✔	✔	✔					
RTP/SDP				✔	✔	✔					
RTSP 1.0 - VOD	outband mode			✔	✔	✔					
RTSP 1.0 - Live	outband mode			✔	✔	✔					
RTSP 1.0 - Live with authentication				✔	✔	✔					
MPEG DASH - VOD	mpd type: SegmentTemplate: Number & Time + SegmentList			✔	✔	✔					
MPEG DASH - Live	mpd type: SegmentTemplate - Time			✔	✔	✔					
DASH MPEG - MSE	W3C Media Source Extensions			✔	✔	✔					
MMS											
RTMP streaming						✔					
RTP streaming						✔					
UDP streeaming						✔					

(1) : Inside containers, the following file types are not considered as medias but as resources, so not played

This tables are showing some of the performances of the Innes devices. You can check out wether your device does support properly the codec required.

dmb400

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264	Baseline Profile	L1,L1.2,L1.3,L2,L2.2,L3				
H.264	Main Profile	L3,L3.1,L3.2,L4,L4.1,L4.2				
H.264	High Profile	L3,L3.1,L3.2,L4,L4.1,L4.2,L5,L5.1	2160p 1080p	24 60		MPEG-4/AVC
MPEG-4	Simple Profile					
MPEG-4	Advanced Simple Profile					
MPEG-2	Simple Profile					
MPEG-2	Main Profile	L1,L2,L2.1,L3,L3.1,L4,L4.1, L5, L5.1	1080i	60		
MPEG-2	High Profile	L1,L2,L2.1,L3,L3.1,L4,L4.1, L5, L5.1	1080p	60		
VC-1/WMV	Simple Profile					
VC-1/WMV	Main Profile		1080p	30		
H.265	Main Profile	L1,L2,L2.1,L3,L3.1,L4,L4.1, L5	2160p	30		
H.265	Main Profile	L5.1	2160p	60		
H.265	Main Profile 10	L1,L2,L2.1,L3,L3.1,L4,L4.1, L5	2160p	30		
H.265	Main Profile 10	L5.1	2160p	60		
VP8			1080p	60		
VP9			1080p	60		

A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)

VIDEO

Decoding of video inside Mkv container whose frames header is stripped is not supported
It is recommended to not use the mode 3840x2160 30Hz when playing video UHD 60Hz
When the user preference innes.video.renderer.default is set to overlay, only 2 video medias can be played at the same time; also some video medias might be not decoded when played inside small zones (ex: video thumbnails), especially interlaced video medias (ex: video mosaic). To work around these 2 limitations, return to gpu mode by setting the user preference innes.video.renderer.default to the value gpu
When playing H265 60Hz video, it is advised to configure the display output with a 60Hz mode as well

Dual-decoding
- By default, dual-decoding capability is not activated. To activate it, set the user preference ```innes.video.decoding-group.enable``` to the value ```true```
- Dual video decoding may be not supported when
  - playing one video Ultra HD 3840x2160p H264 and another video H264 (other codecs than H264 would be decoded properly for the second video here)
  - playing one video Ultra HD 3840x2160p H265 and another video H265 (other codecs than H265 would be decoded properly for the second video here)
- In the Ultra HD resolution, video decoding could be not properly supported when playing one video Ultra HD 3840x2160p H265 and one video Full HD 1080 interlaced (especially in the Ultra HD resolution, when the zone resolution and its aspect ratio is different than the video media intrinsic resolution and pixel ratio)
- In the Ultra HD resolution and multi-zone, some unexpected skip frame could be noticed when playing a lot of medias at the same time (scrolling text, News feeds, 2 video medias, PDF, Widget, canvas HTML Web page, ...)

AUDIO

Max sample rate: 48 KHz
Only mono or stereo audio are supported

SCROLLING OVERLAY

Compatible with the model content "Scrolling text from file V1.10.16 (or above)". The supported font size is between 10% and 100% (100% is representing 60% of screen height). Note that the model content "Scrolling Text V1.10.13" is deprecated.
Models content Scrolling text from file can be played only one at a time when overlay option is activated
In Full HD resolution, do use font size 60% maximum when text to display is spread on several lines, or line length is over 80 characters. In other cases, font size until 100% is supported.
In Ultra HD resolution, do use font size 30% maximum when text to display is spread on several lines, or line length is over 80 characters. In other cases, font size until 90% is supported
Scrolling text overlay is always played in the higher priority layer
Scrolling text overlay may not be supported properly in this Ultra HD resolution: 3840x2160 25Hz CEA-861

MS-POWERPOINT

Not properly
supported
- Animation
- Effects: WordArt, shadow
- Images: Image with filtering, Emf
- Animated image: Gif & png (displayed but not animated)
- Some shapes: Smart Art, Multi-colours shape texture
- Text: Kerning is not supported
- Audio & video
- Vertical fading (in case mixed horizontal & vertical fading)
- Font: Fail over & substitution fonts, some characters whose fonts is 32 bits may be not displayed (ex: fontawesome.ttf)
- OLE injection (MS objects)

IMAGE

Max resolution : 4096x4096

UDP

Video bit rate max. through UDP: 13 Mbps

RTP/RTSP

Support only audio codec type AAC and/or video codec type H264
Video bit rate max. through RTP: 20 Mbps
Video bit rate max. through RTSP Live-VOD: 20 Mbps
Resolution max. : 1920x1080
Framerate max. : 60 fps

DASH MPEG

Support only audio codec type AAC and/or video codec type H264
Video bit rate max. through DASH Live/VOD: 8 Mbps
Quality level dynamic switching is not yet supported. Maximum quality level can be adjusted with the user preference "innes.video.has.max-bitrate" (in Mbps)
Resolution max. : 1920x1080
Framerate max. : 60 fps
DASH MPEG with W3C Media Source Extensions (MSE) is not yet supported
In case using DASH Live, the server and the DMB400 have to be on time with clock and date synchronized with a NTP server

HDMI INPUT

Video: max. resolution 1920x1080
Audio format: PCM Stereo only
To activate it, set the user preference ```innes.video.renderer.default``` to the value ```overlay```. Use the model URI "audio/video input" with the value: urn:innes:av-input

dmb300

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264	Baseline Profile	L1,L1.2,L1.3,L2,L2.2,L3				L3.1 may be supported where the used toolset is that one common to both Baseline and Main Profile
H.264	Main Profile	L1,L1.2,L1.3,L2,L2.2,L3,L3.1,L3.2,L4.1				
H.264	High Profile	L1,L1.2,L1.3,L2,L2.2,L3,L3.1,L3.2,L4.1	1080p, 720p	25	20	MPEG-4/AVC In vertical mode, 24fps is the maximum frame rate
MPEG-4	Simple Profile	L0,L1,L2,L3				
MPEG-4		DivX HD				DivX is based on MPEG4 Advanced simple profile but ignores the levels defined by MPEG4. There are two variants of DivX. The "certified" version does not require GMC or quarter pixel motion compensation prediction. The "non-certified" does support these features
MPEG-4	Advanced Simple Profile	L0,L1,L2,L3,L5	720p			At L5 resolution, only Simple Profile Toolset is supported
MPEG-2	Simple Profile	ML				
MPEG-2	Main Profile	Low, Main, High1440, High Level	1080i, 720p			
VC-1	Simple Profile	LL,ML				
VC-1	Main Profile	LL,ML,HL				
WM9	Simple Profile	LL,ML,HL				
WM9	Main Profile	Main	1080p, 720p			

Video media can be played only one at a time
A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)

VIDEO + AUDIO

Webm video of Web page (like YouTube) is not supported (and its fallback mp4 as well)
Adviced characteristics:
paysage mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@25fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
portrait mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@24fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
As described above, the profile H264 Baseline L4 (used by example when generating Mp4 video from a MS-PowerPoint media) is not supported. To work around in MS-PowerPoint environment, it is recommended to generate video into Wmv format instead

AUDIO

Max sample rate: 48 KHz
Only mono or stereo audio are supported

IMAGE

Max resolution : 2048x2048

MS-POWERPOINT

MS Powerpoint media can be played only one at a time
Supported resolution is 11,28x6,35 cm, which corresponds to 1280x720 resolution

SCROLLING OVERLAY

Models with scrolling text using overlay option can be played only one at a time

UDP

Restriction : only the first video pid and audio pid are extracted, and they must not change dynamically
Restriction: to ensure UDP stream decoding, ensure that the average bitrate is lower than [(8 * Frame Rate) / GOP value]. Note: GOP is also called "Intra frame interval"
For example, if the Frame Rate = 25 picture frames/sec and GOP value = 12, the bitrate can not be upper than 16,66 Mbps. If not, change the GOP value to match this condition and decode properly the stream UDP

TNT

Restrictions: French DVB-T profile 'TNTHD' is not supported (not properly decoded)

dmc200 (hardware acceleration activated)

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264	Baseline Profile	up to L3				

H.264	Main Profile	up to L4.1				
H.264	High Profile	up to L4.1	1080p, 720p	25	20	MPEG-4/AVC In vertical mode, 24fps is the maximum frame rate
MPEG-4	Simple Profile	up to L3				
MPEG-4		DivX HD				
MPEG-4	Advanced Simple Profile	up to L5	720p			At L5 resolution, only Simple Profile Toolset is supported
MPEG-2	Simple Profile	ML				
MPEG-2	Main Profile	Low, Main, High1440, High Level	1080i, 720p			
VC-1	Simple Profile	LL,ML				
VC-1	Main Profile	LL,ML,HL				
VC-1	Advanced Profile	up to L3	1080p, 720p			
WM9	Simple Profile	LL,ML,HL				
WM9	Main Profile	Main	1080p, 720p			

Video media can be played only one at a time
A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)

VIDEO + AUDIO

Advised characteristics (only one video is supported at the same time) :
paysage mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@25fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
portrait mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@24fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
As described above, the profile H264 Baseline L4 (used by example when generating Mp4 video from a MS-PowerPoint media) is not supported. To work around in MS-PowerPoint environment, it is recommended to generate video into Wmv format instead

AUDIO

Max sample rate: 48 KHz
Only mono or stereo audio are supported

IMAGE

Max resolution : 4096x4096

POWERPOINT

MS Powerpoint media can be played only one at a time
Supported resolution is 11,28x6,35 cm corresponding to 1280x720 resolution

UDP

Restriction : only the first video pid and audio pid are extracted, and they must not change dynamically
Restriction: to ensure UDP stream decoding, ensure that the average bitrate is lower than [(8 * Frame Rate) / GOP value]. Note: GOP is also called "Intra frame interval"
For example, if the Frame Rate = 25 picture frames/sec and GOP value = 12, the bitrate can not be upper than 16,66 Mbps. If not, change the GOP value to match this condition and decode properly the stream UDP

TNT

Restriction: French DVB-T profile 'TNTHD' is not supported (not properly decoded)

dme204

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264	Baseline Profile	up to L3				
H.264	Main Profile	up to L4.1				
H.264	High Profile	up to L4.1	1080p, 720p	25	20	MPEG-4/AVC In vertical mode, 24fps is the maximum frame rate
MPEG-4	Simple Profile	up to L3				
MPEG-4		DivX HD				
MPEG-4	Advanced Simple Profile	up to L5	720p			At L5 resolution, only Simple Profile Toolset is supported
MPEG-2	Simple Profile	ML				
MPEG-2	Main Profile	Low, Main, High1440, High Level	1080i, 720p			
VC-1	Simple Profile	LL,ML				
VC-1	Main Profile	LL,ML,HL				
VC-1	Advanced Profile	up to L3	1080p, 720p			
WM9	Simple Profile	LL,ML,HL				
WM9	Main Profile	Main	1080p, 720p			

VIDEO

Video media can be played only one at a time
paysage mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@25fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
portrait mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@24fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)

AUDIO

Max sample rate: 48 KHz
Only mono or stereo audio are supported

MS-POWERPOINT

Not properly
supported
- Animation
- Effects: 3D, WordArt, shadow
- Images: Image with filtering, emf,
- Animated image: Gif & png (displayed but not animated)
- Some forms: Form end (ex: arrow,..), table object, Smart Art, form group may be not properly placed sometimes
- Text: highlight vertical alignment, text centering inside text area form with rotation, unexpected text overlap could be noticed sometimes (rare), some text inside text area form could be inverted horizontally (rare), automatic line break at the end at the right end of the text area
- Audio & video: vertical fading (in case mixed horizontal & vertical fading)
- Font: Fail over & substitution fonts

SCROLLING OVERLAY

Models with scrolling text using overlay option can be played only one at a time
To have the best rendering, set the ouptut mode frequency to the maximal one: 60 Hz.
To support properly the scrolling text overlay, thanks to keep the same output mode frequency for the receiver devices (ex: *1920x1080 @ 60 Hz*) as for the DME204 encoder/streamer (ex: *12080x720 @ 60 Hz*)

IMAGE

Max resolution : 2048x2048

UDP

Restriction : only the first video pid and audio pid are extracted, and they must not change dynamically
Restriction: to ensure UDP stream decoding, ensure that the average bitrate is lower than [(8 * Frame Rate) / GOP value]. Note: GOP is also called "Intra frame interval"
For example, if the Frame Rate = 25 picture frames/sec and GOP value = 12, the bitrate can not be upper than 16,66 Mbps. If not, change the GOP value to match this condition and decode properly the stream UDP

DASH MPEG

Support only audio codec type AAC and/or video codec type H264
Video bit rate max. through DASH Live/VOD: 8 Mbps
Quality level dynamic switching is not yet supported. Maximum quality level can be adjusted with the user preference "innes.video.has.max-bitrate" (in Mbps)
Resolution max. : 1920x1080
Framerate max. : NC
DASH MPEG with W3C Media Source Extensions (MSE) is not yet supported
In case using DASH Live, the server and the DMB400 have to be on time with clock and date synchronized with a NTP server

ENCODER

Maximal frame rate for each resolution
1280x720: 60 fps
1024x576: 30 fps
1024x768: 25 fps
720x576: 50 fps
720x480: 60fps
352x288: 50 fps
176x144: 50 fps

This tables are showing some of the performances of the Innes devices. You can check out wether your device does support properly the codec required.

sma300

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264	Baseline Profile	Fully compatible with the ITU-T Recommendation H.264 specification				MPEG-4/AVC
H.264	Main Profile	Fully compatible with the ITU-T Recommendation H.264 specification				MPEG-4/AVC
H.264	High Profile	Fully compatible with the ITU-T Recommendation H.264 specification	1080p	30 fps		MPEG-4/AVC
MPEG-4	Simple profile (except GMC)					
MPEG-4	Advanced Simple profile (except GMC)					
MPEG-4	H.263 Baseline					
MPEG-4	Divx 3.0 to 6.0					
MPEG-2	Main Profile	Fully compatible with ISO/IEC 13182-2 MPEG2 specification	1080p			
VC-1	Simple Profile	All VC-1 profile features-SMPTE Proposed SMPTE Standard for Television: VC-1 Compressed Video				
VC-1	Main Profile	All VC-1 profile features-SMPTE Proposed SMPTE Standard for Television: VC-1 Compressed Video				
VC-1	Advanced Profile	All VC-1 profile features-SMPTE Proposed SMPTE Standard for Television: VC-1 Compressed Video	1080p			

Video media can be played only one at a time
Adviced characteristics:
paysage mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@25fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC
portrait mode : MP4 container, Video H.264 (high@L4.0) (CABAC/2 ref frames), 1920x1080@24fps, mean bitrate = 10Mbps, max bitrate = 20Mbps, Audio HE-AAC/LC

A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)
In case progressive video, the video should be displayed on a surface on which the destination width and height are multiple of 8. If not, some pixels on the edge of the video will be lost.
(in case interlaced video, the width and height has to be multiple of 16 for the same reason)

AUDIO

Max sample rate: 48 KHz. Whatever the format is, the best performances are reached when using 44.1 KHz sample rate (in V3.10.34+)
Only mono or stereo audio are supported

IMAGE

Max resolution : 2048x2048

MS-POWERPOINT

Not properly supported
- Animation
- Slide transitions
- Effects: WordArt, shadow
- Images: Image with filtering, Emf
- Animated image: Gif & png (displayed but not animated)
- Some shapes: Smart Art, Multi-colours shape texture
- Text: Kerning is not supported
- Audio & video
- Vertical fading (in case mixed horizontal & vertical fading)
- Font: Fail over & substitution fonts, some characters whose fonts is 32 bits may be not displayed (ex: fontawesome.ttf)
- OLE injection (MS objects)

SCROLLING OVERLAY

Support in version Gekkota 4.10.13 (or above)
Compatible with the model content "Scrolling text from file V1.10.16 (or above)". The supported font size is between 10% and 100% (100% is representing 60% of screen height). Note that the model content "Scrolling Text V1.10.13" is deprecated.
Models content Scrolling text from file can be played only one at a time when overlay option is activated
Has to be displayed in a zone whose height is maximum up to 20% of grid height
Scrolling text overlay is always played in the higher priority layer

TRANSITION

Transitions between medias and area exit transitions are not supported

SWF

SWF is not supported. Contact sales@innes.fr for more information.

UDP

Restriction : only the first video pid and audio pid are extracted, and they must not change dynamically
Restriction: to ensure UDP stream decoding, ensure that the average bitrate is lower than [(8 * Frame Rate) / GOP value]. Note: GOP is also called "Intra frame interval"
For example, if the Frame Rate = 25 picture frames/sec and GOP value = 12, the bitrate can not be upper than 16,66 Mbps. If not, change the GOP value to match this condition and decode properly the stream UDP

RTP/RTSP

Support only audio codec type AAC and/or video codec type H264
Video bit rate max. through RTP: NC
Video bit rate max. through RTSP Live-VOD: NC
Resolution max. : 1920x1080
Framerate max. : NC

DASH MPEG

Support only audio codec type AAC and/or video codec type H264
Video bit rate max. through DASH Live/VOD: NC
Quality level dynamic switching is not yet supported. Maximum quality level can be adjusted with the user preference "innes.video.has.max-bitrate" (in Mbps)
Resolution max. : 1920x1080
Framerate max. : NC
DASH MPEG with W3C Media Source Extensions (MSE) is not yet supported
In case using DASH Live, the server and the DMB400 have to be on time with clock and date synchronized with a NTP server

sma200, smt210, smp200

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264	High Profile	up to L3.1	720p	25		MPEG-4/AVC
MPEG-4	Advanced Simple Profile		720p	25		
MPEG-2	Main Profile	ML	720p	25		

Video medias can be played only one at a time
A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)

For all formats, video width in pixels must be a multiple of 8
For smt210 device, the medias have to be played in only one zone. When the video media played inside a HTML appplication, the video media bitrate should be decreased to:

AUDIO

Only mono or stereo audio are supported
Max sample rate: 48 KHz. Whatever the format is, the best performances are reached when using 44.1 KHz sample rate (in V3.10.34+)
The audio mixing is not supported for the middleware version 4.10.17 (and above). That means that in case an audio track starts, the previous audio track is stopped. If the previous media was an video media having an audio track, both the audio track and the video tracks are stopped to let the new audio track starting.

IMAGE

Max resolution : 2048x2048

TRANSITION

Transitions between medias are not supported

This tables are showing some of the performances of the Innes devices. You can check out wether your device does support properly the codec required.

nt_ia32, nt5_ia32

VIDEO

Format	Profile	Levels	Max Resolution	Max Frame rate (fps)	Max BitRate (Mbps)	Remark
H.264						MPEG-4/AVC
VC1						
MPEG-2						
MPEG-4						

Configuration min. :
- PC Windows 7+ IA32/IA64,
- Core i3 HD4000 (or Core i5, Core i7),
- DDR size 8GB (to decode properly video medias with transition)

The performances depends on the platform processors (cpu and gpu), and if hardware acceleration is activated
If hardware acceleration is not activated, output resolution is limited to 1920x1080
Thus, the number of video possible at the same time can't be predicted
When hardware acceleration is possible, it is activated for MPEG-2, H264 and VC1. But MPEG-4.2 uses only software decoding
MS-Windows XP (nt5-ia32): is required to install service pack 3 (SP3) (because MS-PowerPoint viewer embedded in Gekkota does not support SP2)
MS-Windows XP (nt5-ia32) versus MS-Window 7+ (nt-ia32): due to some huge MS-Windows architecture improvements between the both MS-Windows OS generation, the performances are better on Windows7+ (nt-ia32)
MS-Windows 7 Starter Edition (nt-ia32) and MS-Windows 7 Basic Edition (nt-ia32): It is not recommended to install Gekkota RT on these versions of MS-Windows 7 because some video tearing could be noticed.
MS-Windows 7 and theme “aero”: some video tearing could be noticed on some media when using MS-Windows desktop themes other than “aero” theme

A Video media inside a maff or wgt archive can not be decoded in case its metadata table is placed at its end. To solve the issue extract the video media from archive and add it as linked media instead or build the video media with its metadata table at the beginning (using a specific tool like ffmpeg)

AUDIO

Max sample rate: 48 KHz
Only mono or stereo audio are supported

MS-POWERPOINT

The performances depends on the platform processors (cpu and gpu), so performances can't be predicted

UDP

Restriction : only the first video pid and audio pid are extracted, and they must not change dynamically
Restriction: to ensure UDP stream decoding, ensure that the average bitrate is lower than [(8 * Frame Rate) / GOP value]. Note: GOP is also called "Intra frame interval"
For example, if the Frame Rate = 25 picture frames/sec and GOP value = 12, the bitrate can not be upper than 16,66 Mbps. If not, change the GOP value to match this condition and decode properly the stream UDP

MULTI-SCREEN

Only one graphics card equiped with the same connector types has to be used to support properly a wall screen