

FRONTNICHE

12G - 6G - 3G

The First Professional unscaled UHD Blu-ray player with HDR and 12G SDI O/P with optional 10.1" UHD Monitor with external I/P

Ultra Blue



This unique UHD/HDR player has an optional integrated 10" UHD LCD monitor (native 3840 x 2160)

The monitor can also have a further optional 12G SDI I/P for external signal monitoring.

Established BD/DVD's discs can also be up scaled to 12G SDI.

The player has been designed for Post Production, Film and Broadcast Companies Authoring to the new 4K UHD discs and established BD/DVD discs.

The Codec's supports: Embedded Dolby TrueHD, Dolby Digital, Dolby Digital Plus, DTS, & DTS HD Master Audio.

The player is housed in 1U and 4U 19" rack mount.

12G SDI on single BNC is standard with an optional SFP I/O for copper and fibre infrastructures.

Frontniche supports single 12G SDI as opposed to Quad 12G SDI due to cable saving and compliments our (new soon to be announced) range of 12G SDI I/P UHD monitor range.

We see as do many other manufacturers exhibiting at IBC 2016 that 12G SDI will become the industry standard (see <http://www.utahscientific.com/products/productPages/routers2016/UHD-12G.php>)

An optional SFP is available for both Optical & Coax modules utilising 'Embrionix' products

Frontniche Ltd, Circuit Bureau Building, Unit 5 Factory Lane, Beeston, Nottingham, NG9 4AA.
Tel: +44 (0)1949851486 Fax: +44(0)709262114 EM:
sales@frontniche.com Web: www.frontniche.com

Specifications are subject to change without prior notice. E&OE.

Blu-ray profile	6.0
3D capable	Yes
4K compatible?	Yes
Accessories provided	Remote control
Dimensions (WxDxH)	406x230x45mm & 177.8mmH
Audio outputs	1x optical S/PDIF
Video outputs	1x 12G SDI BNC
Video inputs	Optional 1 x 12G SDI to UHD Monitor
Networking	Ethernet, 802.11ac Wi-Fi
USB ports	1x USB

Disc types that can be played

Media	Disc Type	Details
VIDEO	Ultra HD Blu-ray Disc	Ultra HD BD-ROM format.
	Blu-ray Disc 3D Blu-ray Disc	BD-ROM or BD-RE/-R recorded in the BD-RE format.
	DVD-VIDEO DVD-RW DVD-R DVD+RW DVD+R	DVD-VIDEO, recorded DVD+RW/DVD-RW(V)/DVD-R/+R that have been recorded and finalized, or a USB storage media containing MKV, MP4 contents.
MUSIC	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Music recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R or a USB storage media containing MP3 or WMA contents.
PHOTO	CD-RW/-R, DVD-RW/-R, BD-RE/-R	Photos recorded on CD-RW/-R, DVD-RW/-R, BD-RE/-R or a USB storage media containing JPEG contents.

Disc types that cannot be played

- HD DVD
- DVD-ROM/PD/MV, etc
- DVD-RAM
- Super Audio CD (except CD layer)
- DVD-RW (VR mode)
- CVD/CD-ROM/CDV/CD-G/CD-I/LD (CD-Gs play audio only, not graphics.)
- 3.9 GB DVD-R for Authoring.

Resolution according to the contents type

Contents Type		Ultra HD Blu-ray Disc/Blu-ray Disc	E-contents/ Digital contents	DVD Disc
BD Wise		Resolution of Disc	2160p@60/24	480p@60
Auto	Movie Frame : Auto	2160p(1080p)@24	2160p(1080p)@24	2160p(1080p)@24
	Movie Frame : Off	Max. Resolution of TV input	Max. Resolution of TV input	Max. Resolution of TV input
Movie Frame : Auto (24Fs) ※ 2160p, 1080p & 1080i only		2160p(1080p)@24	2160p(1080p)@24	2160p(1080p)@24
2160p		2160p@60	2160p@60	2160p@60
1080p		1080p@60	1080p@60	1080p@60
1080i		1080i@60	1080i@60	1080i@60
720p		720p@60	720p@60	720p@60
480p		480p@60	480p@60	480p@60

Supported Formats

Supported Video File Formats

File Extension	Container	Video Codec	Resolution	Frame rate (fps)	Bit rate (Mbps)	Audio Codec	
*.avi *.mkv *.asf *.wmv *.mp4 *.mov *.3gp *.vro *.mpg *.mpeg *.ts *.tp *.trp *.mov *.flv *.vob *.svi *.m2ts *.mts *.divx	AVI MKV ASF MP4 3GP MOV FLV VRO VOB PS TS SVAF	H.264 BP/MP/HP	4096x2160	4096X2160: 30	60	Dolby Digital LPCM ADPCM (IMA, MS) AAC HE-AAC WMA DD+ MPEG(MP3) DTS (Core , LBR) G.711 (A-Law, µ-Law)	
				3840X2160: 60			
		HEVC (H.265 - Main, Main10, Main4:2:2 10)		60	80		
			Motion JPEG		30		80
			MVC	1920x1080	60		20
			DivX 3.11 / 4 / 5 / 6				
			MPEG4 SP/ASP				
			Window Media Video v9(VC1)				
			MPEG2				
			MPEG1				
			Microsoft MPEG-4 v1, v2, v3				
			Window Media Video v7(WMV1), v8(WMV2)				
			H 263 Sorrenson				
			VP6				
*.webm	WebM	VP8	1920x1080	60	20	Vorbis	
		VP9	4096x2160	4096X2160: 30 3840X2160: 60	40		
*.rmvb	RMVB	RV8/9/10 (RV30/40)	1920x1080	60	20	RealAudio 6	

Supported Music File Formats

File Extension	Type	Codec	Support Range
*.mp3	MPEG	MPEG1 Audio Layer 3	-
*.m4a *.mpa *.aac	MPEG4	AAC	-
*.flac	FLAC	FLAC	Supports up to two channels.
*.ogg	OGG	Vorbis	Supports up to two channels.
*.wma	WMA	WMA	For WMA 10 Pro supports up to M2 profile and 5.1 channels. WMA lossless audio is not supported.
*.wav	wav	wav	-
*.mid *.midi	midi	midi	Type 0, type 1 and Seek is not supported. Only available with USB.
*.ape	ape	ape	-
*.aif *.aiff	AIFF	AIFF	-
*.m4a	ALAC	ALAC	-

Supported Subtitle File Formats

	Name	File Extension
External	MPEG-4 Timed text	.txt
	SAMI	.smi
	SubRip	.srt
	SubViewer	.sub
	Micro DVD	.sub or .txt
	SubStation Alpha	.ssa
	Advanced SubStation Alpha	.ass
	Powerdivx	.psb
	SMPTE-TT Text	.xml
Internal	Xsub	AVI
	SubStation Alpha	MKV
	Advanced SubStation Alpha	MKV
	SubRip	MKV
	VobSub	MKV
	MPEG-4 Timed text	MP4
	TTML in smooth streaming	MP4
	SMPTE-TT TEXT	MP4
SMPTE-TT PNG	MP4	

10.1" UHD Monitor General Specification

Resolution	3840 H x 2160 V
Colours	16.7 M
Pixels per Inch	438
Contrast Ratio	1500
Brightness	400 Nits
Active Area	222.912 H mm x 125.388 V mm
Response Time	30ms
Viewing angle when CR > 10	160 degrees H x 160 degrees V