

# FAIRLIGHT | PYXIS 4K

## Next Generation Video Recorder





- Compressed or uncompressed Video recording from SD to 4K.
- Uncompromised Video playback up to 4K, dual-channel 2K.
- Extensive Audio capabilities with playback for up to 96 channels.
- Unparalleled workflow compatibility.
- Large scale Video wall presentations with inter-machine sample lock.

#### **4K Recording**

**PYXIS 4K** is able to capture compressed and uncompressed Video material in SD, HD, 2K and 4K Ultra High Definition. It provides complete flexibility as to aspect ratio and pixel format of the Video. The system is also capable of recording up to 96 Audio channels at 48K/24bit resolution simultaneously, making it highly suitable for large format mix-to-picture sessions. It can control and synchronize multiple 9 pin devices, or be controlled as a slave 9-pin device.

#### **4K Playback**

**PYXIS 4K** delivers high-end Video playback of up to 4K UHD or 3D formats up to 2K resolution per channel. It is able to scale smaller Video files up to the current project resolution and color space in real time. The system features an extensive range of editing, auto conform and file format transcoding tools. It also provides playback of up to 96 Audio channels.

## User Interface with easy controls

**PYXIS 4K** is available as a rack mounted, turn-key unit. It is easy to operate via a built in 7" touch-screen display or external primary GUI. The system features an operator friendly Jog/ Shuttle and deck control functions. It can be operated from any connected browser and also has the facility to be remote-controlled via RS-422 VTR/DDR protocols.

PYXIS 4K is also available as kit that can be integrated into a Fairlight ratified PC (PYXIS 4K.kit). PYXIS 4K.kit consists of a Crystal Core Media Processor, SX-20 I/O unit and appropriate software licenses.

## Unparalleled workflow compatibility

**PYXIS 4K** fits seamlessly into the workflow of existing facilities. The system supports common file formats including DPX, Cineon, DCP, MXF, JPEG, JPEG 2000, MPEG, XAVC, DVCPRO, AVC-Intra 50/100, XDCAM, DNxHD as well as an extensive range of graphic formats. Files in supported Video and Audio formats can easily be drag-and-dropped onto the timeline. Onboard SSD or HD drives provide local storage of media, whilst storage connectivity is ensured through Gigabit Ethernet, optionally removable drives and/or fibre channel. Video connectivity is available via SDI (up to 3Gb) and HDMI and Audio connectivity via analog Audio, digital Audio (SDI/SPDIF), or MADI. Video (tri-level supported) and Word-clock input ensure perfect sync lock to the facility, whilst positional lock can be achieved through MTC, LTC, or VTR emulation via 9-pin.

To ensure increased workflow performance, PYXIS 4K allows for user-defined monitoring, bussing and panning. Fairlight's innovative iCan software provides additional in-system customization. External remote control is also supported via the Fairlight Access Portal.

## Large scale Video wall presentations

**PYXIS 4K**'s scope of applications can be extended further. Fairlight's proprietary inter-machine sample lock permits multiple PYXIS 4K systems to be synchronized, providing the ideal playback configuration for demanding multi-monitor Video wall presentations, or single screen, large scale Video projections with resolution up to 8K.

## Technical details

SDI Video Input	2 x 10-bit SD/HD/2K/4K and 2D/3D switchable. Supports 3 Gb/s single link 4:2:2/4:4:4 and dual link 4:2:2/4:4:4.
SDI Video Output	2 x 10-bit SD/HD/2K/4K and 2D/3D switchable. Supports 3 Gb/s single link 4:2:2/4:4:4 and dual link 4:2:2/4:4:4.
HDMI Video Input	1 x HDMI type A connector including 3D frame packing support.
HDMI Video Output	1 x HDMI type A connector including 3D frame packing and 4K monitoring support.
SDI Audio Input	8 Channels embedded in SD, HD and 2K.
SDI Audio Output	16 Channels embedded in SD, HD and 2K.
HDMI Audio Input	8 Channels embedded in SD and HD.
Sync Input	Blackburst in SD, 720p50, 720p59.94, 1080i50 and 1080i59.94 formats or Tri-Sync in any HD or 2K format.
SD Format Support	625/25 PAL, 525/29.97 NTSC and 525/23.98 NTSC.
HD Format Support	720p50, 720p59.94, 720p60, 1080PsF23.98, 1080p23.98, 1080PsF24, 1080p24, 1080PsF25, 1080p25, 1080PsF29.97, 1080p29.97, 1080PsF30, 1080p30, 1080i50, 1080p50, 1080i59.94, 1080p59.94, 1080i60, and 1080p60.
2K Format Support	2048 x 1556PsF23.98, 2048 x 1556PsF24, 2048 x 1556PsF25, 2048 x 1556p23.98, 2048 x 1556p24 and 2048 x 1556p25.
4K Format Support	3840x2160p/23.98, 3840x2160p/24, 3840x2160p/25, 3840x2160p/29.97, 3840x2160p/30.
Video Sampling	4:2:2 and 4:4:4 (4K is 4:2:2).
Color Precision	10-bit.
Color Space	REC 601, REC 709, XYZ (Digital Cinema).
HDMI Resolution	Pixel for pixel up to 4K resolutions.
HDMI Color Precision	10-bit.




**PYXIS 4K**

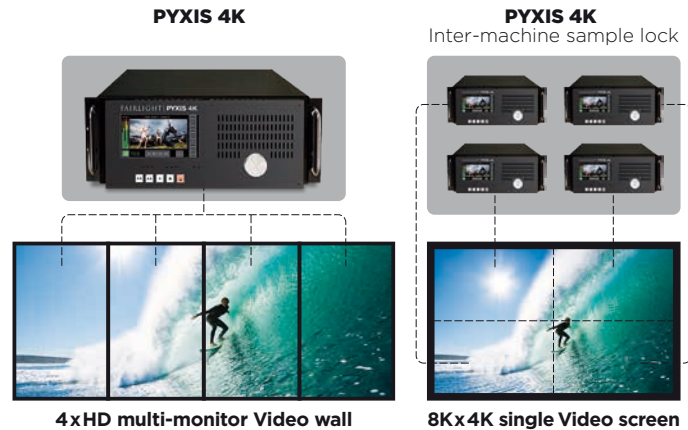
**Connectivity**

**Content Creation Applications**  
**Video** Media Composer®, Final Cut Pro®, Adobe®...  
**Audio** Fairlight®, Pro Tools®, Nuendo®, Pyramix®...

**Storage**  
 ISIS®, Facilis®, Omneon®, DDP®...  
 External Drives

**Video Sources**  
 HD, 2K, 4K, HD VTR





# FAIRLIGHT

Fairlight is a leading Audio and Video technology company specializing in the design and manufacture of professional media production solutions. Leveraging over 30 years of experience, Fairlight delivers innovative post production systems, as well as pioneering 3D Sound and Video in 8K resolution. Fairlight is the brand of choice for broadcasters, renowned commercial post production facilities, music and film production studios around the world.

## **Fairlight Head Office**

15 Rodborough Road  
Frenchs Forest  
NSW 2086  
Australia

Telephone: +61 2 9975 1777

Facsimile: +61 2 9975 1999

Email: [info@fairlight.com.au](mailto:info@fairlight.com.au)

Web: [www.fairlight.com.au](http://www.fairlight.com.au)

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