

A black and white photograph of a man with short, dark hair, smiling and looking towards the left. He is positioned next to a large, complex piece of audio equipment, which appears to be a Fairlight audio console. The scene is dimly lit, with a strong light source from the upper left creating a bright highlight on the man's face and the top of the equipment. The overall mood is professional and creative.

PURE FAIRLIGHT

AUDIO POST PRODUCTION TECHNOLOGY

Years of experience in the business have enabled us to develop technology purely focused on one goal - delivering outstanding Audio Post results.

We spend longer in demanding studio environments, asking the tough questions of our production tools. Just how seamlessly do they handle workflow and how fast can they deliver output? It is the best way we know to answer your demand for a real edge.

PURE | EFFICIENCY

Getting a better job done faster

We understand that nothing should slow down your creativity when you are up against it in the studio.

- Our tactile user interfaces enable faster and higher throughput
- Unique hardware accelerated Audio processing always keeps up with you
- All our Audio focused tools include fast-track Video integration

PURE | COMPATIBILITY

We fit in the real world

We thrive in today's IT based environment, crossing network protocols and server technologies.

- Our systems closely integrate with today's complex workflows
- We support all commonly available media and EDL formats
- We have full compatibility with virtually all Audio, Video and Sync standards

PURE | FLEXIBILITY

Get exactly what you need

You want a system that works your way. A control surface with Audio configurations that suit your applications, space requirements and budgets.

- Our solutions range from laptop applications to multi-tiered facility installations
- iCan technology lets you adapt hardware controls to your exact needs
- Repetitive tasks automate easily with Macros & Scripting

PURE | INTEGRITY

Your delivery relies on our performance

We understand that the production world demands solutions that work - always!

- Our hardware and software is created together - so they work together
- Your entire system is designed and engineered by one team at one site
- Full support comes from a single source - guaranteeing you one direct point of contact

PURE | POST

"The editing on Xynergi is faster than anything else I have ever tried. Combine the on board processing with a suite of any VST plug ins "... and this thing is just unbeatable."

Chris Argento,
VP Post Production at
World Wrestling Entertainment,
Stamford CT - USA

Talk to us to find out how you can complete your Audio Post much faster!
www.fairlight.com.au



FAIRLIGHT TECHNOLOGIES

Control Surface Development

Fairlight specialises in ergonomic control surfaces ranging from compact desktop Audio Post Systems to large format mixing consoles. We offer dedicated controls for perennial tasks such as transport buttons, monitoring controls, high quality faders and Jog Wheels, plus a highly-evolved combination of command buttons for editing and setup tasks. Our user interfaces allow you to focus on creativity and content instead of being visually tied to a mouse pointer on a screen.

Inventing the award winning and patented Picture Key Technology forms a cornerstone of our tactile control surfaces. This technology solves the universal problem of too many functions in too small a space, by dynamically re-labeling the keys as they adopt different functions in the course of your work. No longer do you need to remember dozens of Ctrl, Shift and ALT combinations, nor trudge through menus to find the command you need. The control surface literally reinvents itself for each task you undertake, presenting the commands you need at the right time.

The result: Incredible speed on all fundamental editing and mixing tasks.

Media Processing, I/O and Sync Solutions

Our in-house designed media processor (CC-1) is the 'system-on-a-chip' at the heart of all our Audio Post Systems. A massive Field Programmable Gate Array (FPGA) is designed to integrate recording, mixing, playback and processing for over 230 channels. Hardware acceleration provides highest performance of all channels with lowest latency and purest Audio quality guaranteed.

We also manufacture versatile Sync and I/O options to complement our processing engine. Sophisticated clocking systems ensure perfect sample lock to the rest of your facility, whilst MTC, LTC and 9-pin allows for flexible positional control and chase capabilities. All our systems provide pristine analog and digital Audio, with up to eight 64-channel MADI streams, for easy connection to external I/O.

Editing and Mixing Capabilities

Editing is at the core of Fairlight's history combining clear visual displays with ultra fast tactile control. Shaped from many years of feedback from some of the best editors in the business, our editing software is very reliable, flexible and intuitive to operate.

Hardware-guaranteed mixing and processing power, combined with dedicated menus and keys, makes mixing on a Fairlight system a user friendly experience. Featuring our 5th generation automation system, you can be sure that all popular automation modes are supported, including slow motion mixing, graphical editing and integrated copy/paste of Audio, Video and automation data together.

Video Integration

Fairlight Audio Post Systems seamlessly integrate full resolution SD or HD video capture and playback. Your entire project is encapsulated in a single file for backup. A wide variety of codecs and EDL formats are supported, eliminating offline file conversions and delivering true multi media capabilities.

3D Sound

Fairlight has been pioneering 3D Audio Productions in conjunction with major industry leaders for many years. Our system now allows for completely user defined bus formats, placing Audio in a 3D environment with extensive image controls. Movement of Audio sources in space and size of images is fully automated, along with the rest of your mix. We also support frame spatial editing that includes all normal as well as z-dimensional panning parameters, plus shaping of stereo and wider groups in 3D.

Workflow Support

Fairlight designs tailored solutions to link Audio Post Production smoothly into your workflow chain. Interfaces to IT networks, servers and asset-management systems are straight forward. File conversions are generally not required, Video and Audio formats can be played and loaded natively – all to get a quality job done faster.

Custom Solutions and OEM

Leveraging the capabilities of its in-house R&D team and vast pool of intellectual property, Fairlight has a proven track record of creating customised Audio solutions. Working in close cooperation with our clients to specifically understand and meet their exact requirements, we have provided bespoke hardware and software features, from specific key layouts to entire console chassis. Our technology has also been licensed to non Audio Post Production related OEM applications such as gaming machines.

FAIRLIGHT | SOLO

Fully featured, mouse-based Audio Post System

User Interface

SOLO facilitates complete and intuitive mouse/keyboard-based Audio editing, including trimming, balancing, fading.

The familiar 7-point editing model provides rapid access to key clip attributes.

An advanced track display simplifies project navigation, using innovative gesturing in the track area.

The mouse-based mixer interface provides full channel visibility and access to all levels, pans, mutes, metering etc.

High resolution, peak measuring meters on all channels and buses, as well as LKFS on the main bus, guarantee full control.

Mixing and Processing

SOLO handles up to 192 tracks feeding a 230 channel mix into 72 bus elements.

Recording is possible for up to 96 concurrent channels.

Bus elements can be combined into standard buses from Mono to 7.1, plus custom format buses of any size.

Audio is processed with sub-millisecond latency.

Up to 250 Audio inputs and outputs in a variety of MADI, analog, and digital formats are supported.

Built-in processing includes 4 bands of EQ and dual filters on all channels and buses, compressor, limiter and gate/expander on all channels.

The monitoring mixer provides up and down-mix as required between main bus and the control-room speakers.

Additional processing is available using VST plugins, supporting up to 6 plugs per channel.

On-Board Video

SOLO provides up to 2 built-in video tracks locked to the Audio.

All common SD and HD formats are supported, with drag-and-drop import.

Video output is available either on the PC screen or via 3rd-party Video output devices.

Visual cue points are available for instant location to anywhere in the project.

Tightly integrated into the Video is a full ADR package, with flexible import of source take-list, beeps and wipes on take.

System Integration

SOLO reads and writes a wide range of media and EDL file formats.

Supports shared or private sound effects database with comprehensive search facilities and in-place audition.

Provides 9-pin control of up to 2 external machines.

Supports positional sync to MTC and LTC.

Supports sample clocking to wordclock and tri-level sync.



FAIRLIGHT | PYXIS

Single or dual-channel non-linear Video plus multi-track Audio

System

PYXIS delivers a versatile, fast and powerful solution to diverse Video applications such as screening, film dubbing, ADR sessions and transfer-room capture, layback and transcoding functions.

Configurable with 1 or 2 Video streams, SD or HD, up to 192 Audio tracks and onboard monitor mixer, PYXIS can be specified exactly to fit your requirements.

The graphical user interface is optimised for Video, providing locator buttons displaying captured thumbnails, and a simple set of editing commands on large buttons.

The feature set is specifically designed to promote familiarity with classic tape based video machine.

Video view, timeline overview with waveforms, film-strip scrollers, metering, transport, quick-access keys and picture-based cuepoints are included.

Video

One of PYXIS' strengths is the number of Video formats it supports, from compressed Video up to uncompressed HD 4:2:2.

External Video output is generated by a 3rd-party I/O card, which is available in different standards and feature sets, including options for full Genlock capability.

Single and dual stream capture is available, allowing recording of either two discrete feeds or a 3D format.

Supported file formats include AAF, OMF, Quicktime, AVI, MPEG, and DNxHD.

Audio

Configurable with up to 192 Audio playback tracks and 96 record tracks, PYXIS enables the recording of large events or feeding an external Mixer in dubbing applications.

PYXIS includes a comprehensive monitor mixer, allowing for playback of complex scenarios, with Mute and Solo on every channel or group.

Local I/O can be configured with up to 12 analog and 8 digital outputs. A further 256 inputs and outputs can be added via MADI.

Sync

Tri-level Video sync, wordclock and direct sync to incoming digital Audio are fully supported.

Positional sync is achieved in either master or slave modes, in dual 9-Pin, MTC or LTC setups.

ADR

Tightly integrated into the Video is a full ADR package, with flexible import of source take-list, beeps and wipes on take.

Take lists can either be constructed on the spot or imported from various text file formats.



FAIRLIGHT | XSTREAM

Powerful, tactile, compact Audio Post System

Control Surface

The unique tactile editing interface offers 43 high-res colour, self-labeling Picture Keys displaying its current function.

Picture Keys can change label and function instantly, repurposing the control surface.

The result: Unlimited functional scope which always keeps the operator aware of the currently available commands.

Fairlight's new iCan software with Layout Editor allows function 'layouts' to be customised and re-edited so the operator can decide which buttons appear and when.

The control surface is minimal in size - no bigger than a 17" laptop.

XSTREAM includes a high resolution Jog Wheel for Jog and Shuttle, controlling smooth Audio scrubbing in sync with Video.

6 touch sensitive rotary encoders enable accurate tactile control of mix parameter (level, pan, EQ and Dynamics).

A large graphics display provides clear visual feedback.

A QWERTY keyboard layout automatically displays.

Up to 24 faders can be added in blocks of 6 (XE-6) to maximize the mixing capabilities.

Mixing and Processing

The system supports up to 192 tracks feeding a 230 channel mix into 72 bus elements.

Bus elements can be combined into standard buses from Mono to 7.1, plus custom format buses of any size.

All channels and buses are fully equipped with 6 bands of EQ plus compressor, gate/expander and limiter.

Fairlight's CC-1 Media Engine processes all Audio with sub-millisecond latency.

Additional processing is available using VST plugins, supporting up to 6 plugs per channel.

Mixing and processing are comprehensively automated, with a variety of touch modes, drawing and offline editing.

On-Board Video

XSTREAM provides single or dual Video tracks, locked to the Audio.

All common SD and HD formats are supported, with drag-and-drop import.

Mixed formats are supported.

Simultaneous editing and dissolves across selected Video and Audio tracks.

File Handling and Transcoding

XSTREAM handles a large number of file imports and exports.

Transcoding between supported formats is included in the system software.

Monitoring and Metering

The monitoring system provides listening access to all internal buses and up to 16 user-defined external sources (Mono to 7.1) with no additional hardware requirement.

Up to 9 different speaker sets are supported (Mono to 7.1), with automatic down- and up-mix as required.

Mono compatibility checking and format override is fully supported.

Metering includes peak reading digital scales on all channels and buses, as well as LKFS on the main bus.

Completing the Picture

Clocking options lock the Audio to all sync rates, whilst MTC, LTC or 9-pin lock you to external machines.

Advanced ADR package completes take list import functionality.

Server based sound FX library tools are supported.

EDL conform based on all common industry formats.



FAIRLIGHT | XYNERGI

Ultimate, flexible, full-size desktop Audio Post System

Control Surface

The unique tactile editing interface offers 79 high-res colour, self-labeling Picture Keys displaying their current function.

Picture Keys can change label and function instantly, repurposing the control surface.

The keys provide access to 30 Macro buttons, 48 Track Selects or editing commands.

A full size QWERTY keyboard layout with a wide range of language options displays automatically when needed.

Task-based 'Megamodes' provide access to logical clusters of functions such as recording, mixing and editing.

A large number of fixed-function keys provides rapid access to the following:

- A multi-function number pad for rapid entry of Timecode positions, zoom control and fader set selection.
- Locate buttons
- Dedicated transport row
- Zoom, Enter, Jumps and Edit In/Out buttons
- On-board Help System
- Multi-channel ganging of any variable

A dedicated monitoring section is available to access control-room and studio level controls, plus Mute, Dim and Talk switches.

The result: Unlimited functional scope which always keeps the operator aware of the currently available commands.

Fairlight's new iCan software with Layout Editor allows function 'layouts' to be customised and re-edited so you decide which buttons appear and when.

XYNERGI includes a high resolution Jog Wheel for Jog and Shuttle, smoothly controlling Audio scrubbing in sync with Video.

8 touch sensitive rotary encoders enable accurate tactile control of mix parameter groups (level, pan, EQ and Dynamics).

Up to 24 faders can be added in blocks of 6 (XE-6) to maximize the mixing capabilities.

Mixing and Processing

XYNERGI efficiently handles large projects supporting up to 192 tracks feeding a 230 channel mix into 72 bus elements.

Bus elements can be combined into standard buses from Mono to 7.1, plus custom format buses of any size.

All channels and buses are fully equipped with 6 bands of EQ, plus compressor, gate/expander and limiter.

Fairlight's CC-1 Media Engine processes all Audio with sub-millisecond latency.

Additional processing is available using VST plugins, supporting up to 6 plugs per channel.

Mixing and processing are comprehensively automated, with a variety of touch modes, drawing and offline editing.

Monitoring and Metering

The monitoring system allows source selection from all buses and up to 16 user-defined external sources (each up to 7.1) with no additional hardware requirement.

The selected source is fed to one of 9 possible speaker sets, with appropriate up/downmix, as well as more advanced features such as Mono compatibility checking and format override.

Metering includes peak reading digital scales on all channels and buses, as well as LKFS on the main bus.

On-Board Video

Alongside Audio tracks, XYNERGI provides up to 2 Video tracks in SD and HD. All common formats are supported.

System Integration

A choice of I/O options allows XYNERGI to smoothly integrate into your facility's infrastructure.

A wide variety of servers and asset management systems are supported.

To manage today's complex workflows efficiently, XYNERGI reads and writes a wide range of media and EDL file formats.



FAIRLIGHT | QUANTUM

Fully featured, mid-size Audio Post Console

Control Surface

QUANTUM provides a very fast, tactile mixing environment for demanding applications. It is suitable for large Audio/Video projects using HD picture with up to 192 Audio tracks.

The console is available in both 12 and 24 fader configurations and is equipped with large, easy to reach touch screens.

The 12-fader option comes in a 1.2 metres wide compact console frame, while the 24-fader option is 1.7 metres wide.

Both configurations include a centre section built around Fairlight's unique, patented Picture Key Technology.

43 Picture Keys can change label and function instantly, repurposing sections of the control surface.

A large display, surrounded by 28 buttons and 6 rotary encoders, complement the Picture Keys, and provide access to track selects and processing functions like EQ and Dynamics.

The centre section also features the main control-room and studio monitoring, talkback, Joystick for panning, user-definable keys and has space for a mouse.

The result: Unlimited functional scope within a compact, intuitive and ergonomic workspace.

A large, touch-enabled TFT screen mounted above the centre section panel displays the editing timeline. It can be re-tasked to other functions such as a full-screen view of the output from the on-board Video track.

The channel section comes with 12 fader strips, each including a 100mm motorized fader and selection-, automation-, solo- and mute controls.

The top of each fader strip holds two touch-sensitive rotary controls. In normal mode, they address the parameters associated with each strip e.g. 12 sets of Pan and Trim. Selecting channel mode changes their function, and allows you to access all of a single channel's controls at once.

Functions, mode and values of the rotary controls are displayed on a high-res colour display. The display also shows metering and relevant graphs, e.g. EQ curve.

An overview of your entire mixer is provided at the top of the channel section, showing key information about all channels that are active in your project.

Mixing and Processing

QUANTUM is capable of efficiently handling large projects supporting up to 192 tracks feeding a 230 channel mix into 72 bus elements.

Bus elements can be combined into standard buses from Mono to 7.1, plus custom format buses of any size.

All channels and buses are fully equipped with 6 bands of EQ plus compressor, gate/expander and limiter.

Additional processing is available using VST plugins, supporting up to 6 plugs per channel.

Mixing and processing are comprehensively automated, with a variety of touch modes, intuitive automation status indicators, curve drawing and offline editing.

Monitoring

The dual path monitoring system allows source selection from all buses and up to 16 user-defined external sources (each up to 7.1) with no additional hardware requirement.

The control-room and studio sections each have access to 9 speaker-sets (each up to 7.1).

On-Board Video

Alongside Audio tracks, QUANTUM provides up to 2 Video tracks in SD and HD.

All common formats are supported.

System Integration

A choice of I/O options allows QUANTUM to fit smoothly into your facility's infrastructure.

On the IT side QUANTUM interfaces to most industry standard servers and asset management systems.

To support today's complex workflows efficiently, QUANTUM reads and writes a wide range of media and EDL file formats.



FAIRLIGHT | EVO

High-end, modular Audio Post Console

Control Surface

Fairlight's EVO console delivers the ultimate in configurability and customization – giving you a chance to build the console for exactly your application.

Firstly, choose the frame size (0.5 to 4.5m), frame style (straight, L, U shape), rake (0 or 8 degree) and profile (0, 15 or 30 degrees).

Now choose where you want your centre-section. Populate it with any combination of our 8 types of sub-modules including joystick, automation controls, trackball or enhanced monitor controls.

The centre-section itself utilises 79 of Fairlight's patented Picture Key Technology to provide access to all core control and editing functions.

The keys change label and function instantly, repurposing the control surface in context with the task at hand.

Supporting the Picture Keys, a further 16 function keys and 8 touch-sensitive rotary controls provide access to even more editing commands and also control of EQ and other processing.

A multi-function number pad allows for rapid entry of time-code positions, as well as zoom control and fader mapping.

Precise and fast control of the built-in monitoring system is ensured through dedicated control-room and studio level controls and associated Mute, Dim and Talk switches.

For even more flexibility, add 1 or 2 Intellipad subpanels. Each provides a further 24 Picture Keys and 4 page keys, offering fast access to up to 192 functions.

Up to 5 fader panels can be added, giving you direct access to a total of 60 fader strips.

Each fader strip includes a fader, control buttons for solo, mute, automation and interrogation.

A colour OLED adds track naming, metering and other visual feedback.

Completing the channel strip, a touch-sensitive rotary control can drive various parameters, such as LR or FB pan.

The fader panels can optionally be complemented with inline panels. These add 4 rotary encoders and 4 switches to each fader strip, both dual function. Operating either in strip mode (some controls on each strip) or channel mode (all controls of one strip).

All inline panel sections incorporate a hi-res 20" colour TFT. This provides additional strip information as well as a number of global controls.

Additional screens can be fitted behind the centre-section, or in otherwise blank bays.

Mixing, Processing and Monitoring

Supporting up to 192 tracks feeding a 230 channel mix into 72 bus elements, mixing to both 2D and 3D Audio formats, the EVO is capable of efficiently handling extremely complex projects.

All channels and buses are fully equipped with EQ and 3 stages of Dynamics.

Additional processing is available using VST plugins, supporting up to 6 plugs per channel.

Mixing and processing are automated with a variety of touch modes, drawing and offline editing.

Comprehensive monitoring with internal and user-defined external sources, coupled to 2 independent matrices, each with up to 9 speaker sets.

Video

Alongside Audio capabilities, EVO provides up to 2 Video tracks in SD and HD.

All common formats are supported.

System Integration

A choice of I/O options allows the EVO to completely integrate into your facility's infrastructure. This includes up to 500 Audio ports, sync, 9-pin and programmable GPI/O.

A wide variety of servers and asset management systems are supported.



FAIRLIGHT SYSTEM COMPONENTS

Fairlight systems are built on a foundation of custom-engineered components to enhance the performance of your Audio Post Production System.

Media Engine (CC-1)

CC-1 is a Fairlight designed media processor running a massive FPGA, architected to perform recording, mixing, playback and processing functions.

All Audio is processed with sub-millisecond latency.

CC-1 based systems include:

- Up to 230 channel mix engine
 - Up to 72 user definable buses Mono-7.1
 - 3 Stage Dynamics processing on all channels
 - 6 Band EQ full range on all channels
 - 4 Band Clip based EQ full range
 - Integrated 192 Track Disk recorder
 - 64 Channels of MADI I/O
- And much more....

I/O and Sync Solutions

3 options are available: SX-8, SX-12V, SX-20

SX-20 is a 1U rack mount unit which includes:

- 2 Microphone/Instrument preamps
- 2 balanced analog inputs
- 12 balanced analog outputs
- 4 digital inputs and 8 digital outputs
- Independent multi-machine 9-pin control
- Sync at any frame rate including HD Tri-level sync, Video sync, Wordclock, AES, MTC and LTC

SX-12V and SX-8 units are mounted inside the host PC and provide more economical solutions with essential I/O and sync options.

MADI Card

To increase I/O capabilities of Fairlight systems, the MADI card adds 3 MADI IN and 3 MADI OUT ports, elevating the system to a total of 256 Audio I/Os.

XE-6 Fader Packs

Fader packs with 6 motorized 100 mm, touch-sensitive Faders can be added to XYNERGI and XSTREAM Audio Post Systems.

Each channel also provides a Panpot, Mute, Solo, Automation and Call (interrogate) button.

Colour OLEDs provide brilliant visual feedback including channel name, touch indication and metering from Mono up to 7.1.

Workflow Integration

Fairlight systems use standard Windows™ networking to connect with established IT networks.

Easy connection to network topologies and servers from AVID, Apple, Pinnacle, Thomson and EVS is possible.

Built in file conversion allows operators to open, import, play and export Audio, Video files and projects in most formats.

A large range of file exchange capabilities enable the systems to adapt to popular professional Asset Management Systems like Ardendo and Avid ISIS, covering Broadcast and Post workflow requirements.

Integrated Video

All our Audio Post Systems contain built-in SD or HD Video capture and playback.

All common SD and HD file formats are supported with drag-and-drop import.

Fairlight provides single or dual Video tracks, locked to the Audio.

Thumbnailed cue points can be captured instantly for location anywhere in the project.

A full ADR package with flexible import of source take-list, beeps and wipes on take.

Sound Effects Library Tool

Fairlights AudioBase software application allows multiple users to share sound, music libraries and other sound files.

A search engine with advanced tools facilitates fast location of sound files in very large sound libraries.

Audition in place with picture enables rapid browsing and synchronisation of effects.

iCAN

Fairlight's new iCAN software with Layout Editor allows function 'layouts' to be customised so the operator can decide which buttons appear and when.

Customisation options included are:

- Change of colour, text or image on buttons
- Re-definition of layouts to put user requirements in focus
- Creation of compound functions to streamline workflow
- Smartkey editor to allow creation of keystroke sequences as well as invoking Windows scripting

Besides Fairlight's own application, iCAN is designed to extend control to other products anywhere in your network environment.

GPI/O Capability

Optional GPI/O boards can be integrated with any system action or state, and used to drive or be driven by external appliances.



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FAIRLIGHT

