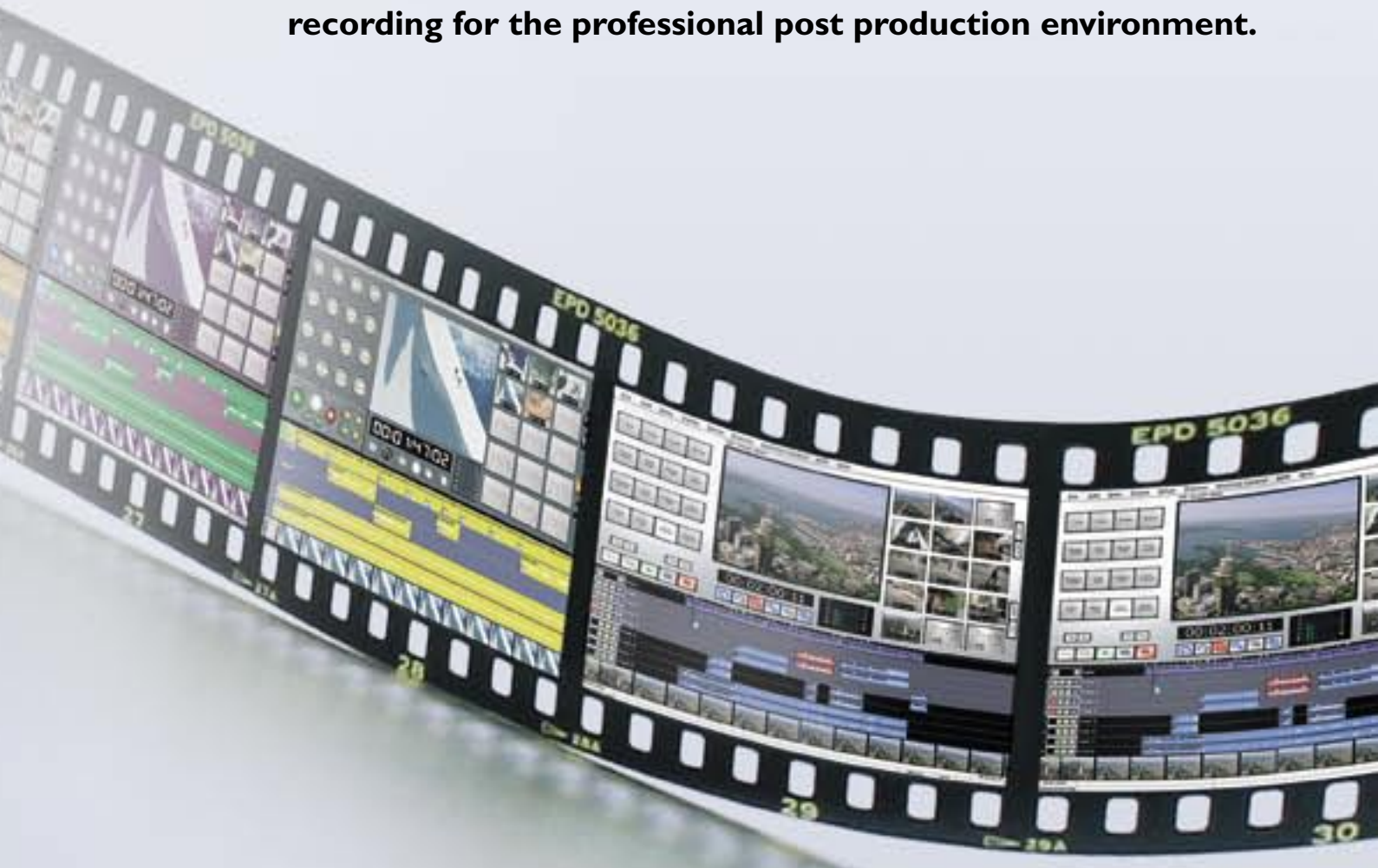
Pyxis

The ultimate solution for HD and SD Non Linear video playback and recording for the professional post production environment.



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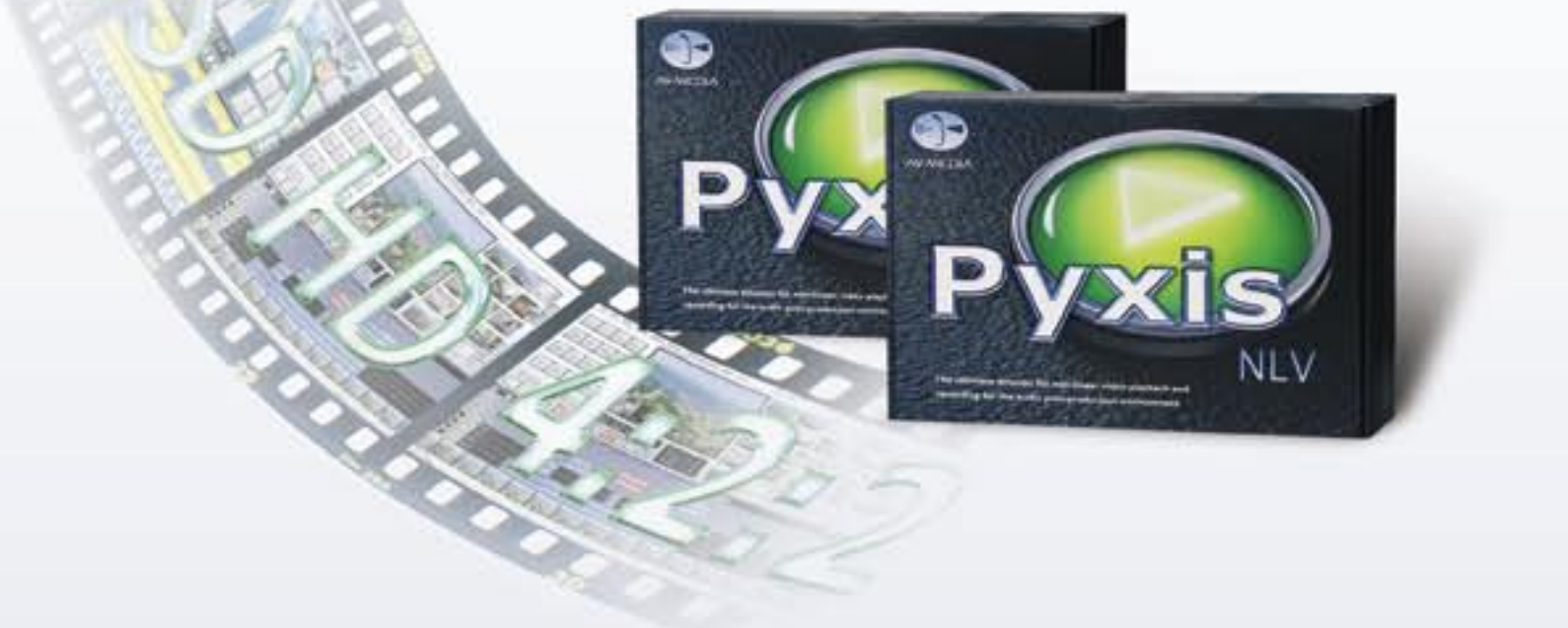


Pyxis is a family of non-linear video player/recorders designed for use in audio post production, film dubbing, telecine capture, screening rooms, ADR list preparation and control functions in ADR recording studios. Pyxis is easily installed on any suitable PC platform running the Windows XP™ operating system. Pyxis can operate as a standalone system, under SONY™ 9 pin control, or as part of a multi-system, facility-wide network using standard Ethernet as its connection protocol.

A family approach:

There are four products that comprise the Pyxis family. These include a Standard Definition player/recorder (PYX-S), a Standard Definition player/recorder with Genlock and SDI I/Os utilising the Decklink Extreme card (PYX-PRO), an HD/SD networkable player (PYX-P), an HD/SD player recorder with SDI and Genlock utilising the Decklink Single Link HD card OR the Decklink Dual Link HD card supporting 4:2:2 uncompressed video for the highest possible video quality (PYX-HD).

All versions support either uncompressed or compressed video formats in NTSC or PAL and at any frame rate including 24 and 23.98 in the HD versions for film productions. In addition all HD versions can reference Tri-Level sync as the master timing reference. LTC can be generated at any required rate so Pyxis can easily be used as a master in all dubbing room applications.

All Pyxis configurations are supplied with a PCI Communication card for 9 Pin and video sync, a CD containing system software, a hardware dongle to enable licensing, installation guide and a communication cable.

User Configurable:

The host PC may be configured by the end user meaning that storage requirements and peripherals can be initially customised to each specific system requirement or added at a later stage should the need arise. This also means that Pyxis configurations can be supplied at a lower cost than any other available component systems. For Genlock systems and SDI I/Os the Decklink Extreme or Decklink HDLink hardware are supported. For more information please visit **www.blackmagic.com**

Ready for Post:

Pyxis is capable of directly importing and streaming Avid Video OMF Compositions if supplied via removable media, or if connected directly to a central video server.

The Pyxis software has the ability to do cuts and moves within the video timeline with locator points. It also has the ability to compile multiple clips as a single sequence. Whilst Pyxis is not intended to be a complete video editing system there are many occasions when the ability to move a scene, change a scene, or delete a scene will allow the audio post-production process to continue when otherwise it would have to wait for these changes.

DAW support and Audio Post Production

Using SONY™ 9 pin control, Pyxis makes an ideal companion to nearly all available DAWs. In addition Pyxis can capture locators at scene changes or key frames that can be used as sync reference points for the editing process. If connected to one of Fairlight's DREAM series workstations a unique Bi-directional control feature enables the Pyxis to be operated from either the DAW's transport controls or from the Pyxis transport controls. Pyxis can receive an OMF file and playback directly without conversion. Other file types supported include Quicktime, AVI, DV-25, MJPEG and Uncompressed video. In addition Pyxis supports NTSC, PAL and Hi-Definition video formats at any commonly used frame rate.

Key DAW support features include the following: SONY™ 9 PIN control master and slave. • Genlock audio and video option. • Support for both Bi Level and Tri Level video sync. • Audio Tracks (4 tracks for SD and 8 tracks for HD products) • Support for Import and export of OMF, Quicktime, AVI, DV-25, WAV, AIFF, AES-31, XML and Fairlight file formats.* • Sophisticated Auto-locate functions including thumbnail frame register. • LTC In/Out for both PAL and NTSC at any standard frame rate. (30,29.97DF, 29.97ND, 25, 24, 23.98) • Frame rate conversion (NTSC-PAL) 24 Frame HD option for film applications. • Wide choice of monitoring options. • Comprehensive editing functions. • On screen audio metering. • User settings including locators are saved within the project file. • User friendly touch-screen interface. • Dual master/slave operation is enabled if Pyxis is connected to Fairlight DREAM family products. • Smooth scrolling audio waveforms and frame accurate film strip display.

* Some file transfers require the installation of AV Transfer. Please contact your authorised reseller.

Dubbing Theatres & Screening Rooms

Pyxis makes an ideal picture source for dubbing theatres and screening rooms engaged in feature film and television production. Pyxis is capable of supporting stunning picture resolution with SDI output in uncompressed HD or SD 4:2:2 video formats. In addition Pyxis can directly playback OMF files if required, meaning picture changes can be easily accommodated. Files can be presented either via removable storage or from centrally located video servers, if connected. In addition, Pyxis can output LTC at any required rate so it is easily interfaced to motion control and console automation systems, DAWs, DAT or other multi-track transports. For added security Pyxis provides the option of adding watermarks to the video. These are introduced as standard bitmap files which may then be embedded with the picture and randomly moved within the picture with a user defined level of opacity.

Key Dubbing features include: • Genlocked video output and sample accurate audio output. • LTC output for control of external motion control systems. • Switchable SD/HD up to 4:2:2 uncompressed. • Built in multi-machine control option. • Remote control options. • Watermark burn in. • Time code burn in.

ADR Control

Using the Pyxis ADR manager option automatic recording cues can be easily imported to the Pyxis system. If keyed in externally, dialogue text and auto record In/Out points can be easily input to the ADR manager. Dialogue text can be automatically displayed with the picture during the ADR recording session along with cueing displays (streamers) and beeps for the actors. If connected via 9 Pin, external machines such as multi-track recorders and DAWs can be set to automatically arm and drop in and out of record at the pre-defined In/Out points.

Key ADR Control Features include: Import externally generated ADR lists. • Input of Record In/Out and dialogue text for display with picture. • Import EDLs. • Onscreen display of streamers during pre-rolls. • On screen display of dialogue text. • International languages and fonts are supported. • User definable fonts and font sizes. • On the fly capture of Take In/Out points. • User definable instant one touch pre-rolls. • Touch screen operation. • Auto record to 2 internal tracks or to external multi-track devices via 9 Pin. • Export to BWF. • Dual master/slave operation if connected to Fairlight DREAM family products. • Smooth scrolling waveforms and frame accurate film strip display. • Import of guide track with video. • Auto Take locator for one touch take generation. • USB "Shuttle Pro" option with user definable key mapping. • Built in text editor. • Smooth jog/shuttle and scrub audio tracks.

Telecine Capture

Using Pyxis as a Sony™ 9 Pin slave and recording uncompressed HD or SD video makes Pyxis an ideal Capture system if connected to a Telecine transfer bay. Recorded video files can easily be transferred to edit bays via network connection.

Key Telecine capture features include: Responsive elegant SONY™ 9 PIN as both master and slave. • Genlock option • Supports Bi-Level and Tri-Level video sync. • Support for Uncompressed SD and HD all frame rate all formats up to 4:2:2. • LTC input and output at all frame rates. • BWF import with timestamp for syncing of daily rushes. • Audio and video capture via analog or digital inputs. • Time code burn in. • File export via network connection in all relevant formats including sequential bit maps. • On the fly sample rate conversion.

Networking

Pyxis is Network ready and can utilise most available off the shelf PC based network hardware. This includes gigabit ethernet and fibre installations if available. Under certain conditions direct streaming of video files from central video servers and other available networked systems is possible. NOTE: Streaming of video and audio files is dependent upon available network bandwidth, network protocol, storage bandwidth, edit density and file format. For more information regarding network capabilities contact an authorised Pyxis reseller.

Pyxis Graphics

The Pyxis graphic display provides all the information needed to control the system as a VTR replacement device and includes quick key access to all essential editing and locator functions. The graphics were designed from the outset to support touch screen displays with large illuminated buttons and menu bars. The Graphical User Interface (GUI) also provides clear indication of the status of all selected functions. The GUI makes a perfect remote control device for the system.

Quick Keys

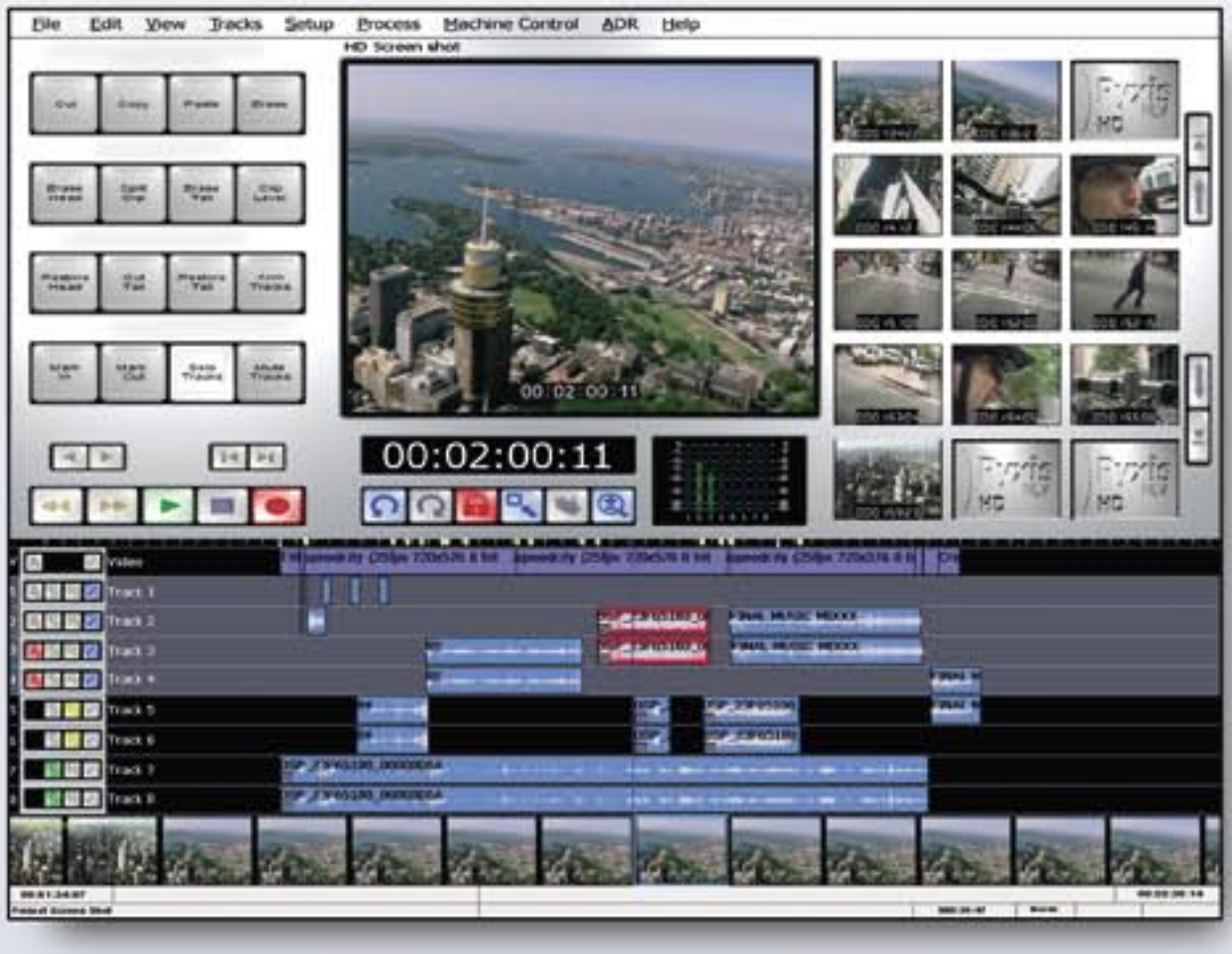
Located at the top left side of the display these keys provide one touch/mouse click access to all edit functions including Cut, Copy, Paste, Trim and Move. Mark In and Out buttons are also included to provide punch in and out points for automatic recording and also in ADR operations. In addition quick keys are provided for the selection of Clip Level, SOLO, Mute and Arm for all selected tracks.

Video Display and Transport Keys

Located at the centre of the screen is the main video display. A simple double touch/click action enables a full computer screen display of the video track. In addition to the familiar transport keys the centre section also displays the current Time Code position, Undo and Redo buttons, audio metering as well as external master/slave lock status, track zoom In/Out and a track scrubbing/grab feature.

Auto-Locator Display

At the top right hand side of the screen is a register of 15 auto locate tiles. Frames are captured simply by touching any available tile. This action will place the current frame and its time-code display in the register. Any currently used video tile can be replaced by dragging the picture window into the used tile. The number of locator tiles is unlimited. Arrow Up/ Down keys are provided to advance the register to display vacant tiles.



Track select buttons

Positioned at the left hand side of the video and audio tracks are buttons to select ARM, Solo, Mute and to select the tracks for editing when required. Each button illuminates to indicate status. Record functions are available on the video and first two audio tracks. HD versions include 8 audio tracks whilst 4 tracks are provided on the SD versions. Audio tracks are automatically loaded during file transfers such as OMF.

Audio and Video Tracks

Pyxis provides a smooth scrolling display of all audio and video tracks in relation to a fixed play head. The play head position is user definable. All audio tracks feature Waveform displays with a zoom In/Out function. Selected tracks are highlighted.

Clips are displayed in different colors to indicate if they are compressed video files, Un-compressed, OMF files or Hi Definition. Clip file formats may be mixed and edited together on the same timeline.

Frame Accurate

Pyxis features a film strip display which enables frame accurate and fine resolution scrubbing of the picture. Using the touch screen or mouse as an interface, edit points and picture cuts can easily be located to the play point and transferred to the autolocate registers. A highlight border is added to the currently positioned frame. Marks entered by the user are also displayed as pointers above the main track display.

PYX-S - Pyxis SD Recorder/Player

- Record/Playback uncompressed or DV25 video
- Record/Playback MJPEG at variable compression rates from 2:1 to approx 50:1
- Record/Playback stereo audio
- Built in 9 Pin machine control
- Playback video in sync with an audio workstation or other 9-pin control device with external video sync
- Instant random access to any point in the project with visual frame locators, timecode locator and jump keys
- Network ready project management
- Network streaming playback of compressed video files from central video server*
- Intuitive touch screen interface (Requires approved TFT)
- Comprehensive edit functions
- Import / Stream OMF, AVI and Quicktime files
- Export Fairlight ML4, BWave, WAV, AIFF, AVI, Quicktime and Pyxis VMU files

PYX-PRO - Pyxis SD Genlocked Recorder/Player

- NOTE: Requires Decklink Extreme video hardware
- All features of the PYX-S system above and including:
- Support for DeckLink "Extreme" card, offering Genlock and a range of professional I/Os such as SDI, 2x balanced audio I/Os and SPDIF digital audio
- Fully Digital SMPTE-259M 10 bit SDI input and output
- Analog component Y, R-Y, B-Y video I/O for connecting to BetacamSP™
- 1 x SPDIF/unbalanced AES digital audio output. Great for monitoring and mastering audio
- True 10 bit and 8 bit uncompressed video quality modes
- No sync generator required as DeckLink generates SDI sync
- Genlockable video output
- Sample-lock of audio to video

PYX-P - Pyxis Player Node HD/SD

- Playback only uncompressed or DV25 video files in Standard or High Definition
- Playback only MJPEG at variable compression rates from 2:1 to approx 50:1
- Playback 8/10 bit 4:2:2 HD formats 1080psF/23.98, 1080psF/24, 1080i/25,1080i/29.97, 1080i/30. * future development will include support for 720p/59.98, 720p/60
- Playback of 8 tracks audio
- Playback video in sync with an audio workstation or other 9-pin control device with external video sync
- Instant random access to any point in the project with visual frame locators, timecode locator and jump keys
- Network ready project management
- Network streaming playback of compressed video files from central video server*
- Intuitive touch screen interface. (Requires approved TFT)
- Comprehensive edit functions
- Import / Stream OMF, AVI and Quicktime files
- Export Fairlight ML4, BWave, WAV, AIFF, AVI, Quicktime and Pyxis VMU files
- Delivered with PCI-Comms card equipped with Tri-Level Sync

PYX-HD - Pyxis HD Recorder/Player

- NOTE: Requires Decklink HD PRO single or dual Link hardware
- SDI Video I/O
- Component video Outputs, RGB, and YUV
- Word Clock and Tri-Level Sync output
- Tri-Level Sync Input
- Dual channel SPDIF Audio Input and output
- Record/Playback uncompressed or DV25 video
- Record/Playback MJPEG at variable compression rates from 2:1 to approx 50:1
- Record/Playback 8/10 bit 4:2:2 HD formats 1080PsF/23.98, 1080PsF/24, 1080i/25, 1080i/29.97, 1080i/30
- Record/Playback of 8 tracks audio
- Playback video in sync with an audio workstation or other 9-pin control device with external video sync
- Instant random access to any point in the project with visual frame locators, timecode locator and jump keys
- Network ready project management
- Network streaming playback of compressed video files from central video server*
- Intuitive touch screen interface. (Requires approved TFT)
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- Import / Stream OMF, AVI and Quicktime files

*NOTE: Streaming of video and audio files is dependent upon available network bandwidth, network protocol, storage bandwidth, edit density and file format. For more information regarding network capabilities contact an authorised Pyxis reseller.

PYXIS OPTIONS

PYXIS - ADR

- Providing the ability to spot ADR Takes directly into a list that is available as a pull down window in the ADR Menu
- Enter In and Out Time-code positions for any required Take
- Enter text (dialog) for on screen display
- One touch take cue
- User defined pre-roll
- Video display of take cue, streamers and generation of cue tones
- Automatic arm and record of external 9 pin machines if connected
- Support for international languages using standard Windows XP language tools

PYXIS – LTC

- Enables LTC Input and Output at all standard frame rates
- Includes AVS CAB-1 LTC breakout cable

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