

445s actiV Sports Supplement

Video Server Controller


History	Description	Version
January 2008	Summary of functions added Software version 5.40	5.3

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This user guide is meant to assist the first time Sports operator in the setup and control of the actiV Sports. Read the actiV Filer operational manual first to become familiar with the standard actiV controls.





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Which operational mode should I use?

The diagrams on the next 2 pages show the two operational modes, Group E-E and Group LIVE DELAY.



Modes selected via System Setup Menu:

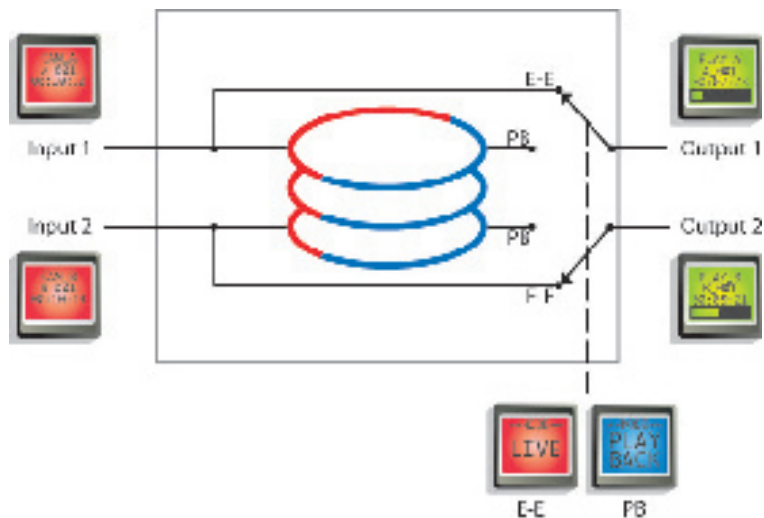
Sport Mode

NORMAL

GROUP E-E

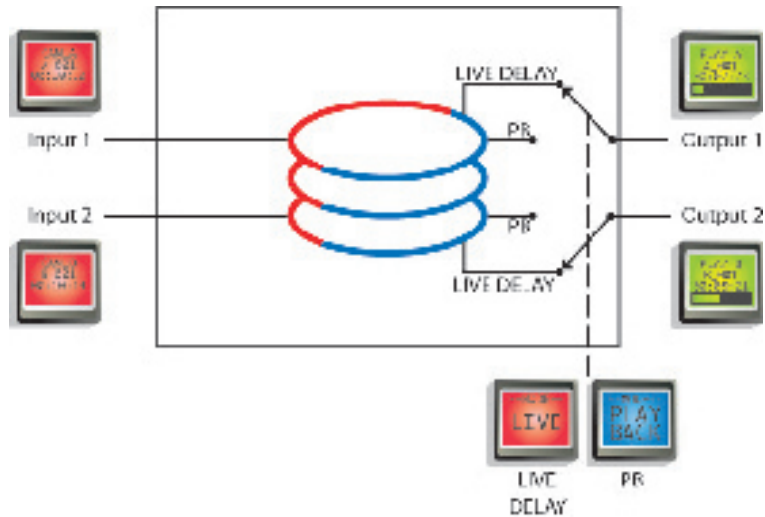
GROUP DELAY

Group E-E



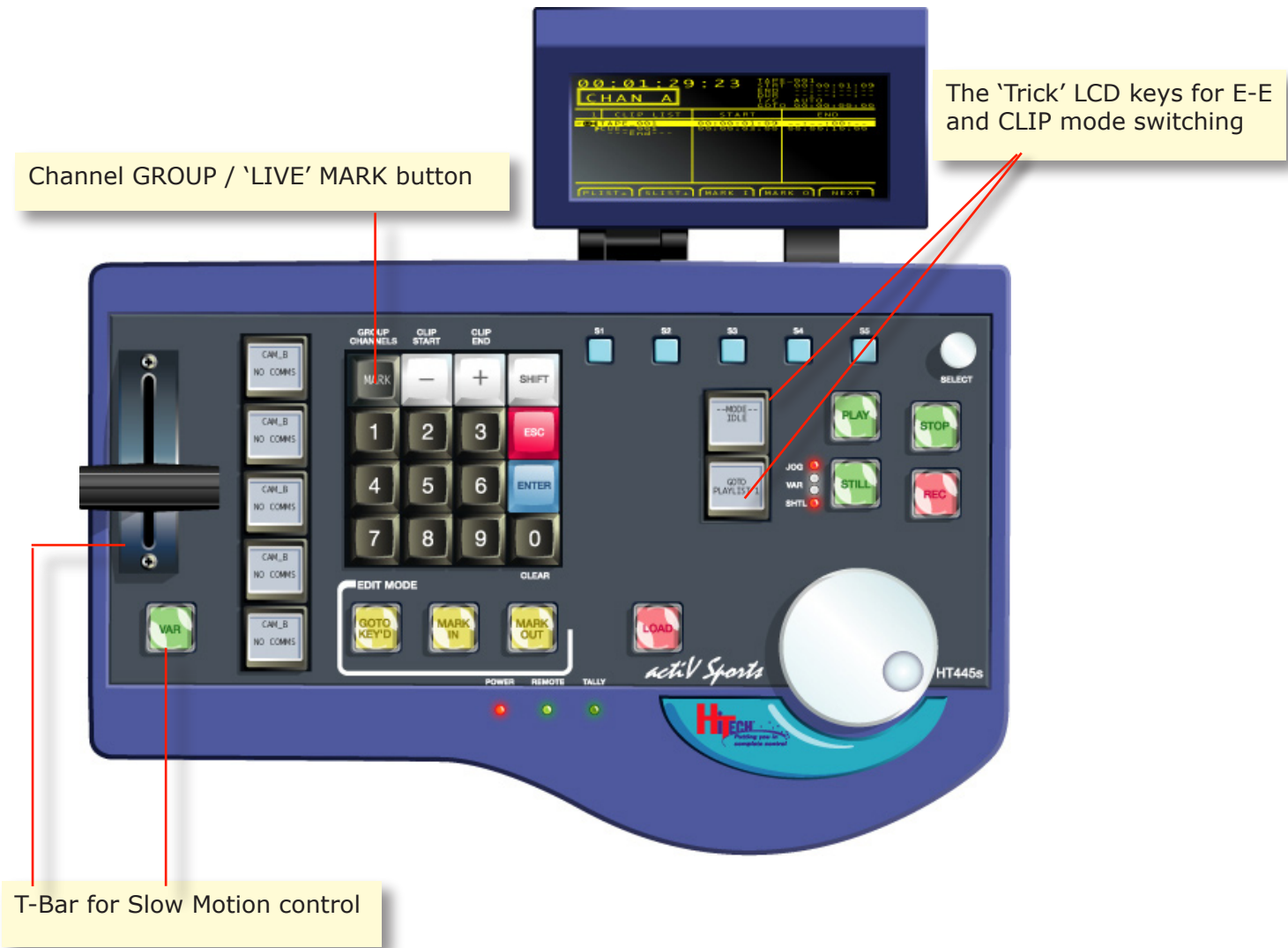
- Operating the LIVE key changes the internal switch on the server, routing input record video to the output (LIVE E-E) or the playback video to the output (PLAYBACK - PB).
- The operator sees the record video signal in LIVE, but when switched to PLAYBACK the operator will notice a "jump" as the video is replayed from the server. This "jump" is dependant on the server, and set in the Disk Menu at the MIN LIVE DELAY setting.
- In LIVE E-E mode input 1 is always routed to output 1 and similarly input 2 is always routed to output 2. Switching to PLAYBACK - PB mode either input can be routed to either output.

Group LIVE DELAY

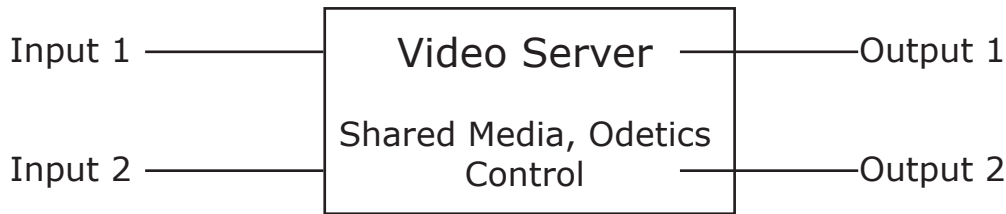


- Operating the LIVE key changes the way the video is replayed, either playing back slightly delayed video (LIVE DELAY) or the full playback video to the output (PLAYBACK - PB).
- The operator always sees the playback video. The playback delay is dependant on the server, and set in the Disk Menu at the MIN LIVE DELAY setting.
- In LIVE DELAY or PLAYBACK - PB mode either input can be routed to either output.

The actiV Sports Layout.



Sports Application One

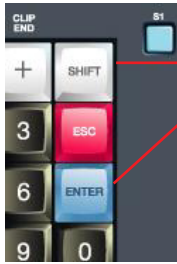


- Example for controlling a server with 2 or more record and 1 or 2 playback channels.
- Uses Odetics protocol.
- Either record channel can be loaded onto either playback channel.
- At anytime a record channel can be playing back near to the record point (Group Delay) or the video input (Group E-E).
- The Sports displays the actual record time-code when in Live mode.

Which control port(s) on the Sports should I use?



- 1** Connect the server's serial remote record channels to the Sports remote 1 and 2 connectors.
- 2** Connect the server's serial remote playback channels to the Sports remote 3 and 4 Connectors.
- 3** The Sport remote channel 5 is spare and could be used to control a VTR.



Set operational parameters in the Sports SETUP MENU – press [SHIFT] + [ENTER]

CHAN	
DEVICE TYPE	DISK RECORDER for chan A and B, DISK PLAYER for C and D
OSD LABEL	e.g. CAM_A, CAM_B, PLAY_A and PLAY_2
CLIP LENGTH	SET AS REQUIRED



Set any unused ports to VTR

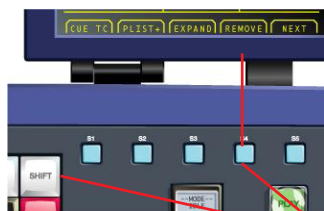
DISK	
DISK PROTOCOL	ODETICS
TIMECODE	LTC
GROUP	OFF
LOAD	
MIN LIVE DELAY	00:00:06:00
CUE END LATENCY	00:00:00:10

SYSTEM	
LIST EXPANSION	GLOBAL
AUTO CUE ENABLED	BOTH
MODE	GROUP

Set operational parameters on the Server

1 Set server to work remotely with Odetics protocol.

2 Connect external LTC timecode to server.



How do I start recording on the Sports?

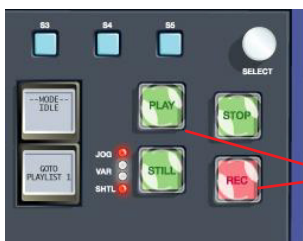
1 If necessary clear the clip list display [SHIFT] + [REMOVE].

2 Make sure a record channel is selected (e.g. channel A)

3 Press the REC (record) key and accept the default clip name.

4 After a few moments clips will be created on the server, the channel keys change to blue and are in ready state to start recording.

5 Press [REC] + [PLAY] to start recording, the record channel keys change to red.



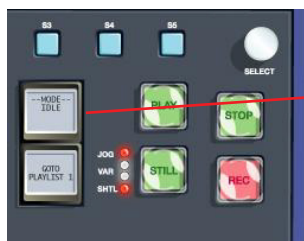
There is no playback at the moment.

How do I load the camera channels for playback?

1 Press the playback channel C (PLAY A), then press the record channel A (CAM A). The record channel A (CAM A) is now available to play back on channel C (PLAY A).

2 Press the TRICK KEY (large key under soft key S3) to play back at near the record point – LIVE mode (this point is determined by the design of the server and is set by the MIN LIVE DELAY parameter).

3 Repeat for playback channel D (PLAY B), press the record channel B (CAM B). The record channel is now available to play back





How to temporarily remove a PLAY channel from playback group

Press and hold a [PLAY CHANNEL LCD KEY]. While pressed playback functions only effect this selected channel.

How to put CAM playback channels into live delay

Press [LCD KEY TRICK KEY 1]. Which is the top of 2 keys below soft key S3. The LCD key will change to the colour red and will display -LIVE-.



How to select playlist from clip list

Press [SHIFT] + [LCD KEY TRICK KEY 2] (Bottom of 2 keys below soft key S3) to cycle through different clip modes.



How to come out of LIVE mode and prepare for playback

Move the T bar or turn the large wheel.



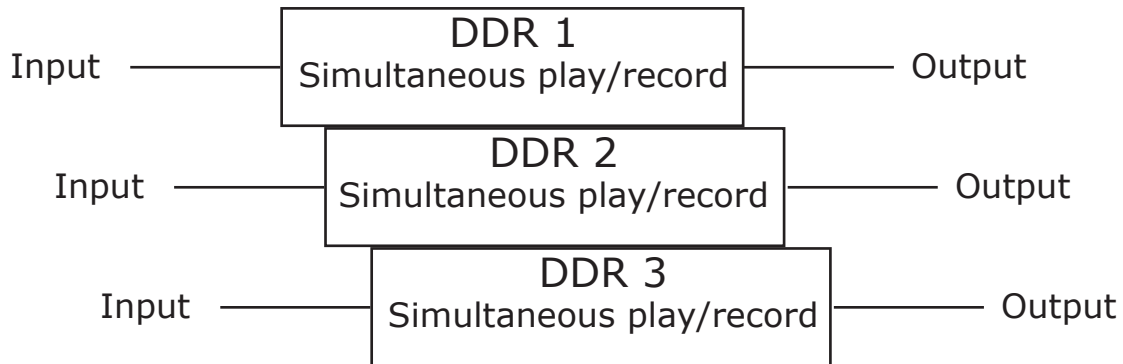
Auto Cue Enable must be turned on in the menu.



How to mark a cue with "Live" timecode while in playback mode

Press the MARK key.

Sports Application Two

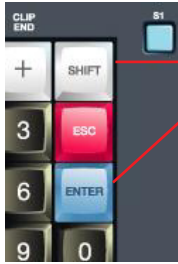


- Example for controlling up-to 5 single channel DDRs that can record and playback simultaneously.
- Uses VTR protocol.
- Only the playback side of the DDR needs to be controlled from the Sports.
- The DDRs are put into record locally from the front panel of the DDR.
- The media recorded on one DDR cannot be shared on another DDR.
- Channel A of the Sports reads the record timecode of the DDR.
- The Sports displays the actual record timecode when in Live mode.
- E-E switching is used in this setup.

Which control port(s) on the Sports should I use?

Connect each of the DDRs playback serial remote to the Sports remote connectors A through to E.





Set operational parameters in the Sports SETUP MENU – press [SHIFT] + [ENTER]

CHAN	
DEVICE TYPE	VTR for chan A through E
OSD LABEL	e.g. CAM_A, CAM_B etc

VTR	
TIMECODE	AUTO
GROUP LOAD	SET ON or OFF
MIN LIVE DELAY	00:00:00:15
CUE END LATENCY	00:00:00:10
LIVE TC SOURCE	TC. GEN

SYSTEM	
LIST EXPANSION	GLOBAL
AUTO CUE ENABLED	BOTH
MODE	NORMAL
VTR SPORT MODE	REC and PLAY

How to mark a cue with “Live” time-code while in playback mode

This is not available in this mode

Set operational parameters on the DDR

- 1 Connect external timecode.
- 2 Set DDR to work remotely.
- 3 Set to read external timecode and free run mode.

How do I start recording on the Sports?

- 1 You don't, start the recordings on the DDR.
- 2 On the Sports press the REC (record) key and accept the default tape name "TAPE_001".
- 3 A tape name and start timecode appears in the clip list.

How do I load the camera channels for playback?

- 1 Press the channel A key and select the tape, the recorded media is loaded to the start timecode.
- 2 Similarly press the other channel keys and select the same tape.
- 3 Press and hold the group channel key while selecting channel keys groups channels all channels now respond to the same playback commands (if GROUP LOAD is turned ON then the same cue loads on all grouped channels simultaneously).

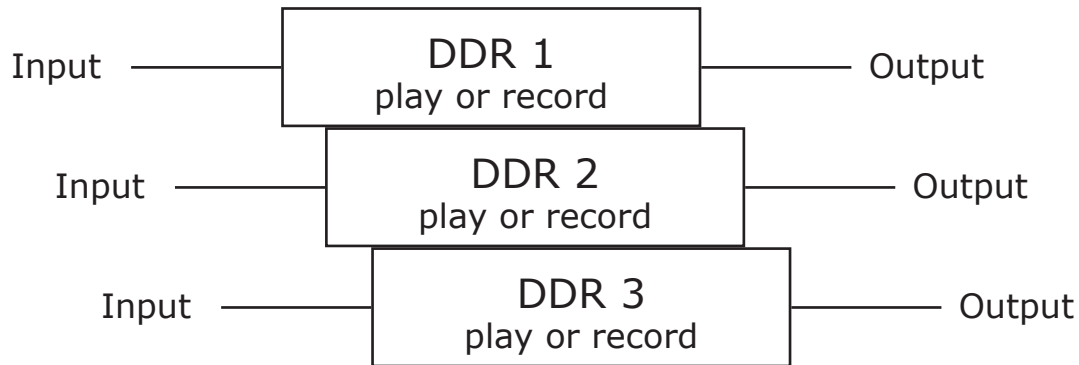


How do I see the input video of the DDRs?



Press the TRICK KEY to put the selected DDRs into E-E – LIVE mode.

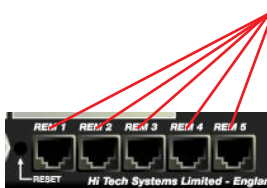
Sports Application Three

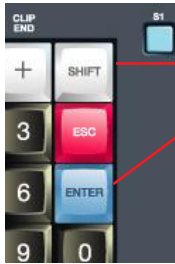


- Example for controlling up-to 5 single channel DDRs that can record or playback.
- Uses VTR protocol.
- The media recorded on one DDR cannot be shared on another DDR.
- Channel A of the Sports reads the record timecode of the DDR.
- The Sports displays the actual record timecode when in Live mode.
- E-E switching is used in this setup.

Which control port(s) on the Sports should I use?

Connect each of the DDRs playback serial remote to the Sports remote connectors A through to E.





Set operational parameters in the Sports SETUP MENU – press [SHIFT] + [ENTER]

CHAN	
DEVICE TYPE	VTR for chan A through E
OSD LABEL	e.g. CAM_A, CAM_B etc

VTR	
TIMECODE	AUTO
GROUP LOAD	SET ON or OFF
RECORD STOP PROT	OFF
MIN LIVE DELAY	00:00:00:15
CUE END LATENCY	00:00:00:10
LIVE TC SOURCE	TC. GEN

SYSTEM	
LIST EXPANSION	GLOBAL
AUTO CUE ENABLED	BOTH
MODE	NORMAL
VTR SPORT MODE	REC and PLAY

Set operational parameters on the Server

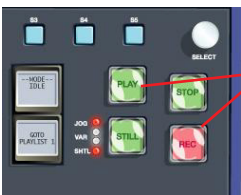
- 1 Connect external timecode.
- 2 Set DDR to work remotely.
- 3 Set to read external timecode and free run mode.

How do I start recording on the Sports?

- 1 On the Sports press the REC (record) key and accept the default tape name "TAPE_001".
- 2 A tape name and start timecode appears in the clip list.
- 3 Select [LOAD] each channel with the tape, either individually or group the channels for group control (requires GROUP LOAD turned ON in the VTR SETUP menu).



- 4 Press the [REC] + [PLAY] key to start recording.



How do I load the camera channels for playback?

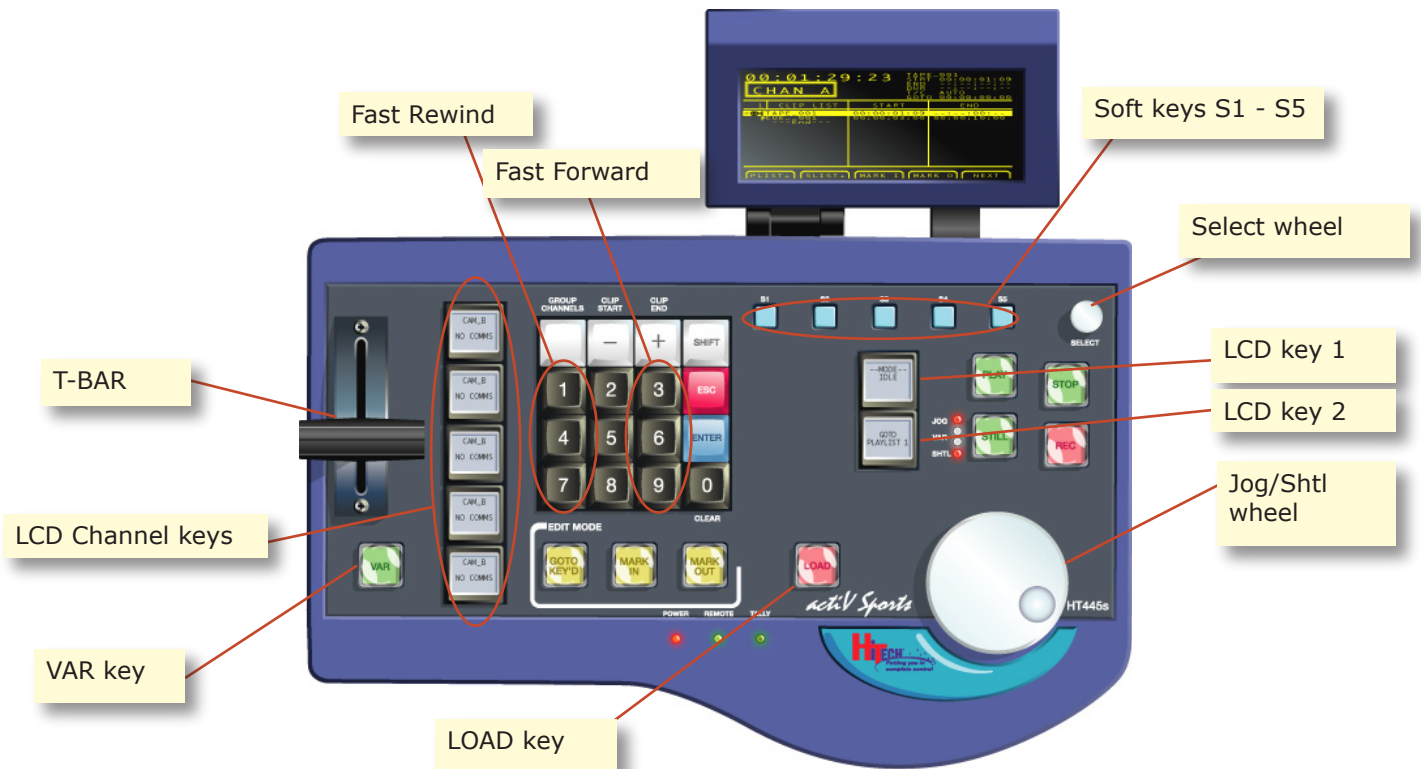
- 1 Press the channel A key and select the tape, the recorded media is loaded to the start timecode.
- 2 Similarly press the other channel keys and select the tape.



How to mark a cue with "Live" timecode while in playback mode

This is not available in this mode

Summary of Functions



NOMENCLATURE

[KEY A] + [KEY B] means press and hold KEY A then press KEY B.

{KEY C} means soft key S1 to S5

Note: * indicates option is required.

NOTE: Some functions may not work on all servers.
Contact Hi Tech Systems for further information.

Function	Keys	Notes
GENERAL		
Finding an Item	[SELECT] Wheel	Rotate the knob to scroll up / down the display
Selecting an item	[LOAD] or [SELECT]	Press the SELECT knob or press the LOAD key
Selecting channels	[CHANNEL LCD KEY]	Selected channel indicated by > < in LCD key
Locating an item loaded on a PLAY channel	Double tap PLAYER [CHANNEL LCD KEY]	Finds the clip loaded from the Clip List, Disk Cat, Playlist or Shot List (if fitted)
Play mode	[PLAY]	
Jog mode	[STILL]	Turn the Jog/Shtl wheel
Shuttle mode	Press [STILL] again	Turn the Jog/Shtl wheel
Variable mode	Press and hold [STILL] for more than 1 second	Turn the Jog/Shtl wheel
Fast forward	[Keypad No# 3/6/9]	[Goto KEY'D] key must be off
VAR (T-Bar)	[VAR]	Position of T-Bar determines the speed of playback
Fast rewind	[Keypad No# 1/4/7]	[Goto KEY'D] key must be off
Grouping channels	[GROUP CHANNELS] + [CHANNEL LCD KEY]	It is possible to have more than one group by selecting another channel, then group
Un group a playback channel.	Press and hold [CHANNEL LCD KEY] in playback group	Temporarily takes the selected playback channel out of group.
Put CAM playback channels into live mode	[LCD key 1]	Functionality dependant on the server system setup
LCD check routine	(on keyboard) ALT + F5 + ENTER in Playlist list mode.	Checks the colours on the LCD channel key and display's various lines of text. Will overwrite data already in clip list

Summary of Functions

Function	Keys	Notes
CLIP LIST	[SHIFT] + [LCD key 2] to toggle to Go to Clip List	Record and replay clips. Edit clips. Make cues / sub clips from clips
Creating a clip	[REC]	Must be on a record channel
Start recording	[REC] + [PLAY]	Clip must have been created first
Stop recording	[SHIFT] + [STOP]	
Making cues	[MARK IN] [MARK OUT]	Creates a Cue in point Creates a Cue out point
Marking LIVE cues	[GROUP CHANNELS] above No #1	Captures the LIVE timecode source for marking a cue, used when channel is cued to play.
Renaming a cue	{RENAME}	Clip must be pointed to not selected
Trim cues	[SHIFT]+[MARK IN] [SHIFT]+[MARK OUT]	Clip must be selected
Cue to start of item	[SHIFT] + [-]	Soft key must be set to {CUE TC}
Cue to end of item	[SHIFT] + [+]	Soft key must be set to {CUE TC}
Go to first cue	[SHIFT] + [-]	Soft key must be set to {CUE ID}
Go to last cue	[SHIFT] + [+]	Soft key must be set to {CUE ID}
Go to a particular cue	[Keypad No#] + [ENTER]	Soft key must be set to {CUE ID}
Move up/down list of cues	[-] / [+]	Soft key must be set to {CUE ID}
Nudge forward / back	[+] / [-]	Jog fwd and back frames as set in [GOTO Key'd]

Function	Keys	Notes
Trim clips IN point	[SHIFT] + [MARK IN]	Trims the clip start timecode with hard marks (Sports Mode NORMAL)
Trim clips OUT point	[SHIFT] + [MARK OUT]	Trims the clip end timecode with hard marks (Sports Mode NORMAL)
Restore clip in / out Timecode	[SHIFT] + [0 / CLEAR]	Removes any clip trimming (Sports Mode NORMAL)
Reveal longer item names	{FORMAT}	Clips with id names longer than 12 characters
Remove single item	{REMOVE}	Removes a clip or cue (No function if Sort Mode set to GROUP)
Remove more than one item	[SHIFT] + {REMOVE}	Opens selection box for removing several clips
Go to a timecode	[Keypad No#] + [ENTER]	Soft key must be set to {CUE TC} [Goto KEY'D] must be on
Adding cues to a PLAY LIST	{PLIST+}	Copies the cue that is pointed to, into the default PLAY LIST
Adding multiple cues to a PLAY LIST	[SHIFT] + {PLIST+}	Copies the multiple cues that is pointed to, into the default PLAY LIST
Adding cues to a PLAY LIST	[SHIFT] + [Keypad No#]	Copies the cue that is pointed to, into a designated PLAY LIST
Turn ON/OFF the On Screen Display (OSD)	{OSD}	* Overlays clip information on to video input
Reveal / hide list of cues	{EXPAND}	
Enter Setup Menu	[SHIFT] + [ENTER]	Only in Clip list mode
Alphabetic Sort	[SHIFT] + [LCD key2] to toggle to Go to Clip List	Press while in Clip List to toggle
Tape Digitising	[GROUP] + [REC]	Creates tape copy to a clip *

Note: * indicates option is required.

Summary of Functions

Function	Keys	Notes
DISK CAT	[SHIFT] + [LCD key 2] to toggle to Go to Disk Cat	Catalogue clips from server. Rename / delete clips. No function if channel is set to VTR.
Upload clips	{UPLOAD}	Uploads Clip ID's into the controller (only on a playback channel)
Adding Clips to CLIP LIST	{CLIST+}	Copies the clip that is pointed to, into CLIP LIST
Adding Clips to PLAY LIST	{PLIST+}	Copies the clip that is pointed to directly into PLAY LIST and also the CLIP LIST
Adding all Clips to CLIP LIST	[SHIFT] + {CLIST+}	Adds all clips to CLIP LIST
Delete	[SHIFT] + {DELETE}	Permanently deletes clip (server dependant)
Rename	[SHIFT] + {RENAME}	Permanently renames clip (server dependant)
Filter clip loading	{FROM} {TO}	* Sets parameters for filtering when uploading clips
Clear Filter parameters	[SHIFT] + {FROM} [SHIFT] + {TO}	* Clears respective filter fields
Alphabetic Sort	[SHIFT] + [LCD key 2] to toggle to Go to Disk Cat	Press while in Disk Cat to toggle

Function	Keys	Notes
PLAY LIST	[SHIFT] + [LCD key 2] to toggle to Go to Play List	Automate play out of clips in playlists.
Automation mode	{MODE}	↻ - loop item ⏸ - pause item ⏭ - play next item ⏮ - hold item for n seconds
Automation mode	[SHIFT] + {MODE}	Toggles all clips in list
Re-order list	{MOVE} + select wheel	Moves pointed to clip up down the list
Change playback speed	{SPD} + Jog/Shtl wheel	Change playback speed of item from 0 - 100%
Editing items	{TRIM}	Trim in and out points of an item
Cue to near end of item	[SHIFT] + [+]	Cues to end of item less 6 seconds
Cue to start of item	[SHIFT] + [-]	Cues to start of item
Skip and play next item on list	[PLAY]	While playing a clip, when pressed the next clip will be loaded and played (server dependant)
Remove	{REMOVE}	Removes clips from playlist
Rename playlist	{RENAME}	In playlist list
Empty playlist	{EMPTY}	In playlist list
Loop playlist	{MODE}	In playlist list