Grabbing times

One other soft key that is available for use in the QPLAY mode is the GRAB function found on soft key F4. This allows you to input cues in real time as the cue list is playing (this can be an empty cue list). To do this, press either Fext (F5) or Pint (F6) and, as the cue list is playing, press F4 at appropriate moments. This will input empty cues at the end of the cue list. You may edit these and assign the relevant programs, MIDI notes and velocity levels in EDIT and pressing SORT in EDIT will place them in their correct chronological order. This method of inputting cues is well suited for creating cue lists on the fly - that is, watching the visuals whilst entering cues in real-time. You may use this function to add cues to an existing cue list or to create a cue list 'from scratch'.

Another way to do this is to use the numeric keypad whilst the cue list is playing. This will insert programs 1 to 9 in realtime as the cue list plays according to the key press and you will hear the sound as you do this. Naturally, it is important that your programs are numbered correctly 1-9 if you are to achieve the right results using this facility. Also, if no programs are assigned to any keys that are pressed, no input will be made.

The keys will normally insert the appropriate program on MIDI note C3 with a velocity of 127 but this may be changed by changing the parameters set in the TRANS page of the main MIDI mode (please refer to Section 3 - MIDI - for more details on this function).

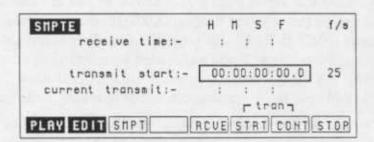
For either way of inputting cues in real-time, the GRAB soft key has two functions. If you press GRAB while the S1100 is NOT playing, a 'G' appears at the top of the screen next to the 'time' field. When this is displayed and any of the PLAY functions are used, you can input cues in real-time (using the GRAB function or by 'playing' the programs from the keypad) but the cues will not be displayed as you input them. This allows a far faster response time for 'grabbed' cues. You may still input cues in real-time using either method without pressing GRAB first and you will see the cues entered as you 'play' them but please note that the response time is slightly slower because, as the screen display changes, so some of the S1100's execution speed is used up and it is possible in such a situation, especially when inputting really fast cues, that some cues may be missed. It is recommended, therefore, that you press GRAB before putting the S1100 into play if you need to input a very fast series of cues in real-time. If you wish to cancel the 'G', press STOP (FE) and this will put you back to the normal GRAB modes.

You may not access any other fields in this mode as these are for display only although the cursor wheel and the numeric keypad can be used to scroll through the cue list. If you wish to edit the cue list, press F2 to return to the EDIT screen.

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SMPTE page

This page is where you set up the parameters for the S1100's internal timecode reader/generator. Pressing F3 - SMPT - will give you this display:



The receive time field shows the current time being fed to the timecode reader from an external source. It will also detect the frame rate used on the external source and this is displayed underneath the f/s field shown in the top right hand corner of the screen.

The transmit start field allows you to set the time at which you want the SMPTE time to start. To the right of this field is another that allows you to set the frame rate for the transmitted timecode and the options are 24 fps (SMPTE film), 25 fps (EBU for PAL and SECAM), 30 fps (SMPTE for mono NTSC and audio-only) and 30 drop fps (SMPTE for colour NTSC). It is important that this be set to match incoming external timecode otherwise you may find that certain cues 'misfire'.

The 'current transmit' field shows the SMPTE time currently being sent.

There are four soft keys associated with the reception and transmission of SMPTE. These are:

F4 - RCVE

This switches the S1100's reader/generator to receive external SMPTE/EBU timecode. When this is switched on and external timecode is sent to the S1100, the 'receive time' field shows the current external timecode position and the 'f/s' field shows the the external timecode's frame rate.

F5) - STRT

This generates timecode from the S1100's internal generator from the point set in the transmit start field.

F6 - CONT

This generates timecode from the point at which the timecode transmission was stopped.

F7 - STOP

This stops transmission of timecode from the S1100's internal generator.

Saving cue lists

You may save a cue list and its programs and samples by selecting ENTIRE VOLUME as the save type - this will save all the programs, samples and effects file associated with the cue list to disk.

It is also possible to save any number of cue lists to disk. To do this, go to the DISK page and select CURSOR ITEM ONLY. Place the cursor on the cue list file you wish to save press F2 - SAVE - and then press F8 - GO. This will save the cue list to disk and the suffix 'Q" will be shown alongside the file. Any number of cue lists can be saved to a disk although only one can exist in the S1100 at any one time.

Loading cue lists

When a disk is inserted into the S1100's disk drive on power up, the cue list file will be loaded along with the the programs and samples. This also applies if ENTIRE VOLUME is specified as the load type.

Loading an individual cue list is done by going to the DISK and selecting CURSOR ITEM ONLY and placing the cursor on the cue list file you wish to load. Pressing F9 - GO - will load the selected cue list into the S1100.

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APPENDICES

The following pages contain information that, while not essential to the operation of the S1100, nonetheless may be useful as reference.

Technical Specifications

Display	Backlit 320 characters/240 x 640 graphic LC	Backlit 320 characters/240 x 640 graphic LCD			
Diskette drive	3.5" dual density drive, 2Mbyte capacity (2HD), 1Mbyte capacity (2DD)				
Size (maximum dimensions)	483 x 133 x 425(mm) (19 x 5.25 x 16.75(in)) (WxHxD) (EIA3U size)			
Weight	10.1kg (22.2lbs)				
Power requirements/consumption	120VAC, 60Hz (USA, Canada) 220 - 230VAC, 50Hz (Europe, except UK) 240VAC, 50Hz (UK, Australia)				
Sampling rates	44.1kHz, 22.05kHz (20Hz-20kHz, 20Hz-10k	Hz audio bandwidth)			
Data format	16-bit linear encoding				
Memory	2Mbyte standard, expandable to 32Mbyte				
Sampling time (unexpanded memory)	23.76 seconds — mono © 44.1kHz 47.52 seconds — mono © 22.05kHz 11.88 seconds — stereo © 44.1kHz 23.76 seconds — stereo © 22.05kHz				
Maximum number of samples	200				
Maximum number of programs	100				
Pitch shifting	±2 octaves (1 cent steps) interpolation and decimation 24-bit algorithm, using custom VLSI circuit				
Filter	Digital moving low-pass filter (-18dB/octave)				
Envelope generators	2 x digital ADSR				
Connectors					
REC IN	2 x XLR (balanced) 2 x 1/4-inch phone (balanced)				
STEREO OUT	2 x 1/4-inch phone (unbalanced)	-5dBm, 600Ω			
AES EBU OUT	1 x XLR (AES/EBU digital audio output)	RS-422 level			
ASSIGNABLE OUTS	8 x 1/4-inch phone (unbalanced)	-5dBm, 600Ω			
EFFECT SEND	1 x 1/4-inch phone (unbalanced)	-5dBm, 600Ω			
HEADPHONES	1 x 1/4-inch stereo phone				
SMPTE IN/OUT	2 x 1/4" phone (balanced)				
FOOTSWITCH	1 x 1/4-inch phone				
MIDÍ	IN, OUT, THRU				
REC GAIN	HI -58dBm, MID -38dBm, LO -18dBm				
OPTIONS					
EXM005	2Mbyte memory expansion board				
EXM008	8Mbyte memory expansion board				
1B-104	AES/EBU digital interface				
BL1000	3.5 inch blank diskettes (MF2HD)				

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MIDI IMPLEMENTATION CHART for \$1100

FUNCTION		TRANSMITTED	RECOGNIZED	REMARKS	
	Default Changed	×	0 1 0 1 - 16	without disk memorized (disk)	
Mode	Default Messages Altered	×	Mode 3 Mode 1-4 OMNI On/Off, P/M	without disk memorized (disk)	
Note Number:	True Voice	×	24 -127 24 - 127		
Velocity	Note On Note Off	×	o 9n V=1-127 o 8n V=1-127	Release Velocity	
After- touch	Keys Chs	×	x .		
Pitchbend		×	0	0-12 semitone steps (8-bit resolution)	
Control Change	1 7 64 67	x, x	0 0	Modulation wheel Volume Sustain pedal Soft pedal	
Program C	nange True #	×	1-128	by Preset number value	
System Ex	clusive	0	0	AXAI ID 4 Th 81100 48h **	
System Common	Song Pos Song Sel Tune	* * * * * * * * * * * * * * * * * * *	x x		
System Real time	Clock Command	×	×		
Aux Messages	Local On/Off All Note Off Active Sense Reset	x x	x o (123) x x		

MODE 1: Omni On, Poly MODE 2: Omni Off, Poly MODE 3: Omni On, Mono MODE 4: Omni Off, Mono

^{*1} Full details of System Exclusive data formats can be obtained by contacting your AKAI dealer.

S1100 PROGRAM CHART

(This chart is provided as an example of how to record the program settings you create for the S1100. Feel free to make copies of this page for your own use)

Disk Name	Sequence disk
Dota	Cina
Date	Size
Session	Producer
Piece	Artist

Program name	Samples	Samples Keygroup Ke		span Pan		Out	Tuning	MIDI channe
			LOW	HIGH				
2757 47.000	-							
								1 38
			- 1					
		-						
				- 1				
	177							
						1		
			1 20					
	1000		900					
				-				
		The latest	100					Line A
	100							
			1					
	100000							

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Buttons	9	Connections	21 36
Bypass	38	Delay Flange/chorus	34
C		Naming	32
Changing between display pages	19	Number	32
Chorus	34	Pitch shifter	36
Connections		Reverb	32
General	23	Source	32
Sound sources	41	EG release rate and Note Off	61 61
Constant pitch samples	63	EG release rate and Note On ENT/PLAY button	20,44
Control wheels	00	ENT/PLAY button	20, 44
Pan position	68 69	Test note	72
Pitch LFO	03	Entering names	20
Copying Samples	40	Envelope Generator 1	61
Copyright	3	Velocity and speed	61
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Positional	9	F	
Positional crossfading	58	FCC Notice	5
Splice crossfading	51 9	Fields	9
Velocity Velocity groupfeding	63	Filters	700
Velocity crossfading Cue list	87	Cutoff-frequency of LPF	60 64
Grabbing times	93	Cutoff frequency Low-pass filter	60
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Cursor	9	Velocity effect on LPF	60
CURSOR knob	17 54	FIND button	
CYCLIC mode (time-stretch)	04	see "Autolooping"	0.4
D	100	Flanging	34
DAT backup	80	Floppy disks See "Disks"	
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