Panasonic Broadcast

AG-MX70
Menu Information

[Setup] initial setting screen

Wash Pb 128 Pr 128 Y 196				
Event 00E	ME Time 10:00F	Pattern 3015	INT Wht	
Setup				
Power	Reset			
Direct Pattern	Setup			
Audio Video	Input Setup			
Memory	INT V 15	Title 15		
Gen Lock	Ref In G/L	H Phase 128	SC Phase 512	
Video Format	NTSC	Aspect 4:3	Setup 0	Pb Pr BCAM
System1	Dly 1Frame	Time Sec	GPI ME	RS422 GVG
System2	Lcd Stby 0	VBClean Off	DR On	Chr.Lmt Off
Bus	Type AB	Still On	Audio CP	Tally 8
Audio Level	Alignment 4dB			Head 20dB
File	Empty 1	Save		
R1	R2	R3	R4	R5

Scrolled display

Select the item to be set using the rotary 1 control. Items consist of [Power], [Direct Pattern], [Audio Video], [Memory], [Gen Lock], [Video Format], [System1], [System2], [Bus], [Audio Level] and [File].
The setup settings are not returned to the factory settings even if the system is started by Reset. They can be restored to the factory settings by pressing [Shift] and [Enter] together when the power is turned on.

[Setup] initial setting screen

[Power] (power ON) setting

R1	R2	R3	R4	R5
Power	**Reset**			

Reset
Preset
Demo

Whether the system is to be started from the [Reset] status, from the [Preset] status or in the [Demo] mode can be selected using the rotary 2 control.
With [Reset], the settings except for the event memories, setup settings, file memory and key learn settings are initialized.
With [Preset], the mode in which the system is started from the status prior to power OFF is established when the power is next turned on.
If no status prior to power OFF existed (when, for instance, the system is used for the very first time after assembly or its memories have been destroyed), the system is started from the factory setting status.
With [Demo], the system starts up in the demonstration mode when the power is next turned on. This menu is displayed in the demonstration mode so that when the system is restarted by selecting [Preset] or [Reset], the regular operation screen will appear. Alternatively, when [Enter] is pressed, the demonstration mode is suspended and operation is enabled. To execute the demonstration mode again, turn the power off and then back on again. The audio faders can be used even in the demonstration mode.
The default setting is [Preset].

[Direct Pattern] setting

R1	R2	R3	R4	R5
Direct Pattern	**Setup**			

Setup
Default

This is used to set the pattern which is to be called as the direct pattern.
When [Setup] is selected using the rotary 2 control and [Enter] is pressed, [OK?] appears so press [Enter] to change to the setting mode. Use [Shift] + [Enter] to cancel.
When [Default] is selected using the rotary 2 control and [Enter] is pressed, [OK?] appears so press [Enter] to change to the default setting. Use [Shift] + [Enter] to cancel.

Setting method in the setting mode
[ME] is selected for Preview so it can be used to check.

1. Press the direct pattern button.
2. The lamp of the selected button flashes. The [Mix], [Chrm] (chroma) key and [Lum] (luminance) key cannot be set.
3. Use the number keys to input the pattern to be assigned. (The pattern is displayed in the pattern area.) The program output can be checked using the wipe lever.

[Setup] initial setting screen

The LCD display now shows the setting screens for each effect pattern. Proceed to set the edges and effects, and if the settings are acceptable, enter them using [Enter], and return to the direct pattern settings.

Example of transition

Pos. X 128 Y 128 Z 196				
Event 00E	ME Time 10:00F	Pattern 2001	INT Wht	
Direct Pattern Transition			Enter to EXIT	
Modify	Comp	Off		
Pattern Edge	Hard	Width 0	Color White	
Effects	Off			
R1	R2	R3	R4	R5

If the setting operation is exited part of the way through (by pressing other buttons, etc.), the settings performed so far will not be stored in the memory.
The settings of six key patterns and seven transitions patterns are stored in the memory. The edges and effects of each of the patterns are also stored.

Example of key pattern

Pos. X 128 Y 128 Z 196				
Event 00E	ME Time 10:00F	Pattern 6301	INT Wht	
Direct Pattern Key			Enter to EXIT	
Pattern Edge	Hard	Width 0	Color White	K Level 255
Crop	▲ 6	▼ 2	◀ 12	▶ 12
Effects	Off			Light On
3D Modify	Rotate 0		Time 0	TransF 255
R1	R2	R3	R4	R5

Key patterns 3xxx, 4xxx and 5xxx as well as key learn patterns 9000 to 9019 can be assigned to direct key pattern buttons. Transition patterns 0xxx, 1xxx and 2xxx can be assigned to direct key transition buttons.
The factory settings are the patterns displayed.

[Setup] initial setting screen

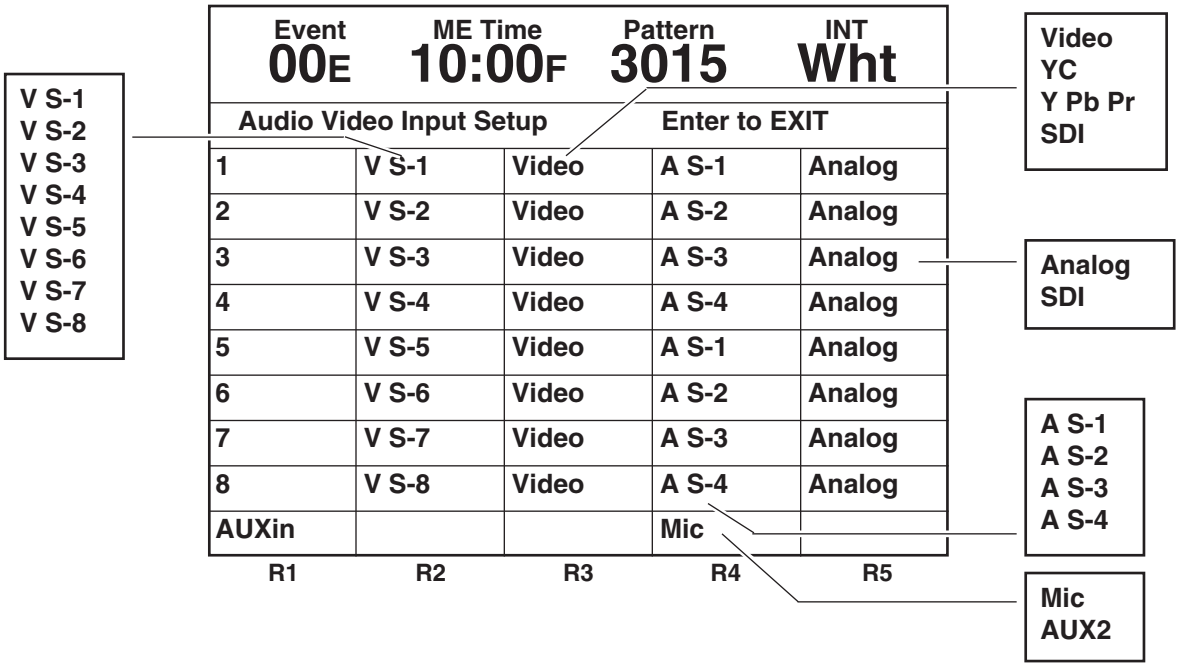
[Audio Video Input] settings

These are used to set the audio and video inputs.
When [Setup] is selected using the rotary 2 control and [Enter] is pressed, [OK?] appears so press [Enter] to change to the setting mode. Use [Shift] + [Enter] to cancel.
When [Default] is selected using the rotary 2 control and [Enter] is pressed, [OK?] appears so press [Enter] to change to the default setting.
When [V-Link] is selected using the rotary 2 control and [Enter] is pressed, [OK?] appears so press [Enter] to change operation so that the audio input is matched with the video input.

R1	R2	R3	R4	R5
Audio Video	Input Setup			

Setup
Default
V-Link

Factory settings



Setting method

Press the button of the cross point to be set. Alternatively, select the button of the cross point which is to be set using the rotary 1 control. The lamp of the selected button flashes, and the bus is automatically output to Preview. When the cross point has been selected using the rotary 1 control, the A bus is output to Preview.
Select V S-1, V S-2, V S-3, V S-4, V S-5, V S-6, V S-7 or V S-8 as the video input using the rotary 2 control.
Select [Video] composite, [YC], [Y Pb Pr] component or [SDI] using the rotary 3 control.
Except for [Video], the sources extend from S-1 to S-4 so [5] is changed to [1], [6] to [2], [7] to [3] and [8] to [4]. If the setting operation is exited part of the way through, the settings performed so far will not be stored in the memory. They are entered using [Enter], and operation returns to the [Audio Video Input] settings.
Select A S-1, A S-2, A S-3 or A S-4 as the audio input using the rotary 4 control.
Select [ANALOG] or [SDI] using the rotary 5 control.

Video input combinations that cannot be set: S-5 to S-8 + YC/Y Pb Pr/SDI
Audio input combinations that cannot be set: Combination of SDIs with different source numbers
Example: SDI of S-1 for video and SDI of S-2 for audio

[Mic] or [AUX2] can be set for [AUXin] using the rotary 4 control. The default setting is [Mic].

[Setup] initial setting screen

[Memory] setting

R1	R2	R3	R4	R5
Memory	**INT V 15**	**Title 15**		
	0 - 30/26	0 - 30/26		

This is used to set the memories used for INTVideo and DSK. When the setting is changed, all the memories are cleared. How much memory is to be used for [INT V] and how much for [Title] for DSK and TitleKey is set using the rotary 2 and 3 controls.
If the allocation to one memory is changed, the allocation to the other memory will change so that the total remains 30. When a change is to be made, [OK?] appears. Execute the change using [Enter], and use [Shift] + [Enter] to cancel.
The default setting is 15 each for [INT V] and [Title] with NTSC and 13 each for [INT V] and [Title] with PAL.

[Gen Lock] external synchronization setting

R1	R2	R3	R4	R5
Gen Lock	**Ref In G/L**	**H Phase 128**	**SC Phase 512**	
	G/L Ext Key	28 - 228	0 - 1023	

Select [G/L] or [ExtKey] as the [Ref In] (reference) source using the rotary 2 control. The default setting is [G/L].
Adjust the [H Phase] (horizontal phase) using the rotary 3 control. The default setting is 128.
Adjust the [SC Phase] (subcarrier phase) using the rotary 4 control. The default setting is 512.
[H Phase] and [SC Phase] are stored in the memory separately in accordance with [G/L] or [Ext Key] for the input.

[Video Format] setting

R1	R2	R3	R4	R5
Video Format	**NTSC**	**Aspect 4:3**	**Setup 0**	**Pb Pr BCAM**
	NSTC PAL	4:3 16:9	0 7.5	BCAM MII

Either [NTSC] or [PAL] is selected as the format by the rotary 2 control.
The default setting is the format used in the area where the system was purchased.
When a change is to be made, [OK?] appears. Execute the change using [Enter], and use [Shift] + [Enter] to cancel.
Set [4:3] or [16:9] as the [Aspect] ratio of the patterns using the rotary 3 control. The default setting is [4:3].
Select [0] or [7.5] for [Setup] using the rotary 4 control. The default setting is [0].
Select [BCAM] or [MII] for the [Pb Pr] component level using the rotary 5 control. The default setting is [BCAM].
When the NTSC or PAL format is changed, the system is initialized, and the [INT V] and title memories are cleared.

[Setup] initial setting screen

[System1] setting

R1	R2	R3	R4	R5
System1	**Dly 1Frame**	**Time Sec**	**GPI ME**	**RS422 GVG**
	1Frame 0Frame	Sec Frame	ME DSK Fade	GVG SONY

This is used to perform a variety of settings.
The rotary 2 control is used to set the amount of delay for the source input when the [AdvRef] advanced reference signal is connected with the 3D optional board (AG-VE70) installed. If 0Frame is selected, the video delay amount is different between when the 3D effects are applied and when they are not. The default setting is 1Frame. The setting is fixed at 0Frame when the 3D optional board is not installed. The audio source delay amount is also set according to this setting.
[Sec] (seconds + frames) or [Frame] (frames) only is selected for the time display using the rotary 3 control. The default setting is [Sec].
Whether [ME], [DSK] or [Fade] is to be executed by GPI can be set using the rotary 4 control. The default setting is [ME].
[GVG] or [SONY] can be selected as the RS-422A protocol using the rotary 5 control. The default setting is [GVG].

[System2] setting

R1	R2	R3	R4	R5
System2	**LCDStby 0**	**VBClean Off**	**DR On**	**Chr.Lmt Off**
	0 - 60	On Off	On Off	On Off

The time taken until the LCD is set to the power saving mode can be selected using the rotary 2 control.
With the 0 setting, the display is always on. The time can be set in 10-minute increments from 0 to 60. The default setting is 0.
[On] or [Off] is selected using the rotary 3 control to set whether or not cleaning is to be performed inside the vertical blanking period (VBlk). The default setting is [Off].
[On] or [Off] is selected using the rotary 4 control to set whether or not the [DR] (dynamic rounding) is to be performed. The default setting is [On].
[On] or [Off] is selected using the rotary 5 control to set whether restrictions are to be applied to the SDI and component output chroma. If [On] has been selected, the chroma is restricted by the 100% color bar level. The default setting is [Off].

<Note>
Selecting [Off] for [VBClean] may result in a deviation in the amount of delay between the video signals and vertical blanking signals depending on the setting for the [Dly] item among the [System1] settings and on whether the 3D optional board (AG-VE70) has been installed.

[Bus] setting

R1	R2	R3	R4	R5
Bus	**Type AB**	**Still On**	**Audio CP**	**Tally 8**
	AB Prg Pre	On Off	CP 1, 2	8 EXT

AB (AB bus) or PrgPre (program/preset system) can be selected as the bus system using the rotary 2 control. The default setting is AB.
[On] (initiate Still) or [Off] (do not initiate Still) when cross points are to be changed is selected using the rotary 3 control. The default setting is [On].
The Audio MIX system can be selected using the rotary 4 control.
At the [CP] setting, two audio sources allocated to the selected cross point are output. At the [1,2] setting, the audio sources 1, 2 allocated to the cross point are mixed at all times. The default setting is [CP].
[8] or [EXT] can be selected using the rotary 5 control as the setting for the eight tally outputs. At the [8] setting, the tally signal is output when cross point 8 has been selected; at the [EXT] setting, it is output when EXT has been selected.

<Note>
When [Still] has been set to [Off], the picture may be disturbed if direct switching is performed between SDI/composite and YC/component. This setting must always be used with either an SDI-only/composite system or YC-only/component-only system.

[Setup] initial setting screen

[Audio Level] setting

The [Alignment] (alignment) level is set using the rotary 2 control. [–3 dB], [0 dB] or [4 dB] can be selected. The default setting is [4 dB] for NTSC and [0 dB] for PAL.
The [Head] (headroom) is set using the rotary 5 control. Either [18 dB] or [20 dB] can be selected. The default setting is [20 dB] for NTSC and [18 dB] for PAL.

R1	R2	R3	R4	R5
Audio Level	**Alignment –3dB**			**Head 18dB**
	–3dB 0dB 4dB			18dB 20dB

[File] setting

The statuses set by [Setup] can be stored in the memory.
Select 1 to 8 using the rotary 2 control. An empty file is indicated by [Empty]. A file with settings is indicated by [Saved].
Select [Save], [Recall] or [AllCLR] using the rotary 3 control, and execute using [Enter]. [Save] saves the settings and overwrites any existing settings, [Recall] loads the settings, and [All CLR] clears the settings.
When [Save] or [AllCLR] is selected, [OK?] appears. Enter the selection again using [Enter] or cancel using [Shift] + [Enter].
It is also possible to clear all the settings by holding down [Shift] + [Enter] when the power is turned on so that the factory settings are restored.

R1	R2	R3	R4	R5
	Empty Saved			
File	**Empty 1**	**Save**		
	1 - 8	Save Recall AllCLR		

Other settings

Event memory

Setting method

Event
00E

One hundred panel statuses can be stored in event memories 0 to 99. Press the Set button, set the event number using the number keys, and enter the setting using [Enter].

Set button: Its lamp lights during the setting process. When [Enter] is pressed, it flashes for two seconds and then goes off.

When the setting is in progress, Event is displayed in reverse video, and the event is then entered using [Enter]. Event numbers can be incremented and decremented using the "+" and "–" keys. Empty events are indicated by [E] appearing next to the event number.

Recall method

Press the [Recall] button, select the event number to be loaded using the number keys, and recall it using the [Enter] or [AutoTake] button.

Recall button: Its lamp flashes while recall is underway. It lights when the button is set to ON, and goes off when it is set to OFF or when the recall is completed.

Since the input settings are not reflected during loading, events are executed in respect of the input set beforehand.
Events 50 to 59, 60 to 69, 70 to 79, 80 to 89 and 90 to 99 can be set consecutively in units of 10 events and also recalled consecutively so they can also serve as key frame settings. Events are executed using the [AutoTake] button. With the recall of events 50 to 99, the Setup status of the head event is valid.

Clearing events

Set the number of the event to be cleared using [Recall], and execute clearing using [Shift] + [Enter]. Clearing all the events is possible by inputting a period twice at the recall stage and then pressing [Shift] + [.]. Alternatively, this can be achieved by starting the system by pressing [Shift] + [Enter] when the power is turned on, and restoring the factory settings.

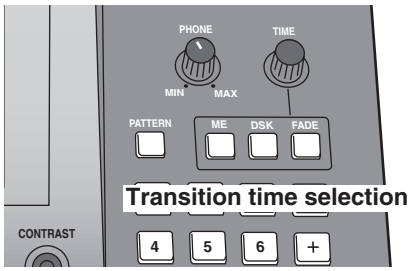
Pattern settings

Pattern
3015

Press the [Pattern] button, input the pattern number using the number keys, and execute using [Enter]. If the pattern does not exist, operation will jump to the nearest pattern number.
Each time [Pattern] is pressed, the function is set to ON or OFF. The default setting is MIX (56).
Pattern numbers are incremented and decremented using the "+" and "–" keys. Patterns that do not exist are skipped and displayed in turn.

Transition time setting

Select the item to be set, and press the [ME], [DSK] or [FADE] button.
Input the numerical value using the number keys, and press [Enter].
The numerical value can be incremented and decremented using rotary TIME or the “+” and “–” keys.
Set the ME (back, key transition), DSK or fade time.
Set the time of the item selected for ME, DSK or Fade above the number keys.
The time is indicated on the LCD display. It can also be input or output using the number keys.
With x:xx displays, it is possible to input [2][.][5] to display 2:05 where [.] is used as a delimiter.
The default setting is 60F.



Correlation between number key settings and [Pattern] button

[Pattern] takes precedence over [ME], [DSK] and [Fade].
Items selected by ME, DSK or Fade can be set by the rotary controls. The number keys can also be used when Pattern is OFF. The items selected appear on the LCD display.
There are three options—ME, DSK and Fade—and they can be set to OFF by pressing the ON button. In this case, neither the rotary controls nor the number keys can be used.

Number key priorities

The number key priorities are: event memories → pattern settings → transition time settings → LCD screen settings.
In the event memories, the number keys cannot be used for pattern settings, transition time settings or LCD screen settings.