

THE SELECT PANEL

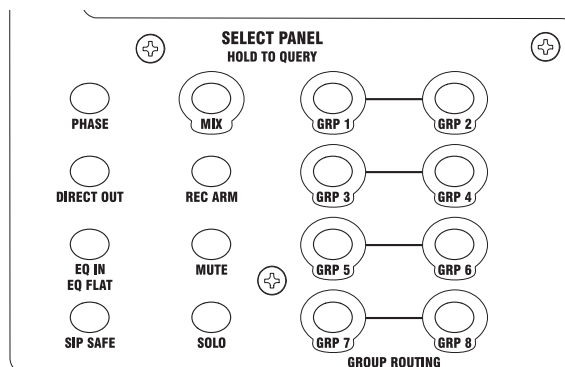
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OVERVIEW

The 328XD SELECT PANEL is where you will find the rest of the controls you would expect to find on the channel strip of an analogue mixer such as the Group Routing buttons, Phase Reverse, EQ In/Out etc.

The Select Panel becomes active when a SELECT switch is pressed for any of Analogue Inputs 1-16, Digital Inputs 17-32, Stereo Inputs 1 and 2 or FX Returns 1 and 2.



Let's look a little closer at how the SELECT PANEL works.

PHASE

When the PHASE button is pressed the phase of the selected channel will be reversed/inverted.

This can be useful when a signal arriving at the mixer input is out of phase with an adjacent channel causing attenuation or other unwanted effects due to phase cancellation. Reversing the phase of one of the channels will correct this.

Note that when the PHASE switch is activated for STE-1 or STE-2, the phase of the left side of the stereo signal will be inverted.

DIRECT OUT

The DIRECT OUT button can be accessed only when the SELECT switch is active for any channels of BANK SELECT 1-16.

When pressed the selected channel is put into DIRECT OUT mode. So what does this mean?

This is a very useful feature that allows the output of the selected channel to be routed directly to the corresponding ADAT and TDIF outputs on the rear of the console.

For example let's assume we have two ADATs connected to Digital Outputs 17-24 and 25-32 in order to record Analogue Inputs 1-16 post-fade.

When DIRECT OUT is active for an analogue input channel, the signal is transmitted directly to the corresponding ADAT output channel. Consequently, Analogue Input channels 1-8

are transmitted directly to the 8 input channels of the first ADAT recorder, and Analogue Input channels 9-16 are transmitted to the 8 input channels of the second ADAT recorder. This allows all 16 MIC/LINE channels to be recorded simultaneously. The same would be true if two Tascam DTRS machines were connected to the TDIF ports.

The direct signal that is transmitted in this mode can be set to be pre or post-fade and pre-EQ. For a detailed description of how this is configured please consult **Section 3J Part 5.1**.

Channels can still be monitored via the control room outputs and stereo outputs whilst in this mode.

When DIRECT OUT is disabled for an analogue input channel, instead the corresponding Group output is transmitted on that Digital Output channel (see table below). With DIRECT OUT disabled for all channels of BANK SELECT 1-16, the Digital Outputs are configured so that Groups 1-8 are output on both Digital Output channels 17-24 and 25-32. In this way, the 8 channel ADAT and TDIF outputs can be configured to be a combination of Group outputs and direct sends from the channels of BANK SELECT 1-16.

Channel with DIRECT OUT disabled	Group Output
1, 9	1
2, 10	2
3, 11	3
4, 12	4
5, 13	5
6, 14	6
7, 15	7
8, 16	8

As DIRECT OUT is only available to channels of BANK SELECT 1-16, under normal operation only the analogue input channels can be assigned directly to the tape send channels. With one or both Flip Banks enabled, however, (see **Section 3J Part 5.2** for more information) the Digital Inputs 17-32 can also be routed directly post-fade to the tape outputs. As the TDIF and ADAT outputs are both continuously active, regardless of which is set as the input port, you can easily dub from two ADAT machines to two TDIF machines or vice versa.

EQ IN / EQ FLAT

With the SELECT switch active for an input channel, illuminating the EQ IN button will enable the 3 Band Parametric Equaliser available on the MIC/LINE 1-16, TAPE 17-32, STE 1 and 2, FX 1 and 2 channels. When switched OFF, EQ is bypassed for the channel, regardless of any current or future adjustments.

To flatten the EQ settings for a channel, press and hold the relevant channel SELECT switch and press the EQ FLAT switch in the SELECT PANEL once. It will illuminate to indicate that the EQ has been reset.

SIP SAFE (SOLO IN PLACE SAFE)

When Solo In Place (SIP) is not active in the SOLO CONTROL panel (see **Section 3F**), the

Mix Bus at the MIX L/R Outputs is left unaffected when a channel is soloed. Instead the Mix Bus at the CRM and PHONES outputs is replaced with the Solo Bus, the level of which is controlled by Fader 16 of the MASTERS BANK SELECT.

With SIP Solo mode active, the default state, when a SOLO switch is activated for a channel, all other channels are automatically muted from the Mix Bus, leaving only the soloed channel(s) routed to the Mix, which remains present at the CRM and PHONES outputs. You can observe this by putting the console into SIP Solo mode and soloing any input channel - the MUTE switch for all channels without SIP SAFE active will become active.

The SIP SAFE switch functions to prevent the automatic MUTE activating for any channel with SIP SAFE active in the SELECT panel. Consequently, when another channel is soloed in place, selected SIP SAFE channels will be unaffected.

By way of an example, this can be useful when you wish to SOLO the lead vocalist but do not want the vocal FX to be muted. Pressing the FX-1 or FX-2 SELECT switch will enable you to activate SIP SAFE. The FX return then remains routed to the Mix Bus when the vocalist's channel is soloed in place.

By default STE-1, STE-2, FX-1 and FX-2 are all set to SIP Safe active.

MIX

The MIX switch enables you to select which input channels are routed to the MIX L/R Outputs and which are not.

While pressing and holding the MIX switch, the groups can be routed to the mix bus by selecting the relevant GRP switch(es).

Note that this switch acts as a SELECT switch for the Mix bus when in DYNAMICS ON E-STRIP mode (see **Section 3B Part 3**).

REC ARM (RECORD ARM)

Use of the RECORD ARM switch enables the remote arming of a track on the corresponding channel of a connected recording device. This switch is used in conjunction with SELECT switches 1-16 only.

NOTE: The Tape Mach Setup menu (see **Section 3J Part 5**) must be configured correctly for a connected tape machine in order for the REC ARM function to work correctly.

To REC ARM a track on an external recording device:

- Firstly make sure that the recording device is setup to receive MMC (MIDI Machine Control) or Sony 9-pin control, depending on the connection you have made. See **Section 3J - Part 5.13 Tape Machine Setup** for more detail.
- Using Query Mode operation (see page 52), hold down the REC ARM button and press the SELECT 1-16 button(s) for the corresponding track number(s) you wish to arm. The REC LED above the chosen channel number will flash. When the remote recording device is put into record either directly or from the 328XD Transport Controls, the REC ARM LED will remain illuminated.

- To disable REC ARM for a track which has been enabled, press and hold the REC ARM switch and deselect the required SELECT switch(es). The REC ARM LED will be unlit.

NOTE: When the Meter Bank is set to display the gain reduction levels of the compressors (see **Section 3B Part 4**), the Record Arm LEDs indicate the Noise Gate Open/Closed status. To return the LEDs to indicate the Record Arm status, deselect the DYNAMICS ON METERBANK switch.

MUTE

The sends to the Mix Bus, Groups 1-8 and post-fade Aux/FX Sends are muted when the MUTE button is activated for a channel.

Although there are dedicated MUTE buttons for the BANK SELECT channels 1-16, 17-32 and MASTERS and also for STEREO INPUTS 1 and 2, the MUTE switch in the SELECT panel must be used to mute FX Return 1 or 2.

NOTE: AUX and FX Sends from an input channel will be muted only if the AUX and FX Sends are globally set to operate post-fade (see **Section 3H**). An AUX or FX Send set to pre-fade will allow the signal of a muted input channel to continue to route to the Master Aux or FX Send bus.

SOLO

When pressed, the SOLO button illuminates and places the selected channel into SOLO mode according to the type of SOLO selected in the SOLO CONTROL panel. When the console is not in Solo In Place solo mode, the PFL/AFL LED on the Master section of the mixer illuminates to warn when a SOLO is active.

SOLO IN PLACE (SIP) ACTIVE

When the default solo mode, Solo In Place (SIP), is active (see **Section 3F**) and a SOLO switch is activated for a channel, all other channels are automatically muted from the Mix Bus. Only the soloed channel(s) stays routed to the Mix, which remains present at the CRM and PHONES outputs.

SOLO IN PLACE INACTIVE: PFL (PRE-FADE LISTEN) / AFL (AFTER-FADE LISTEN)

With Solo In Place (SIP) solo mode inactive, the signal of a soloed channel is transmitted to the stereo Solo Bus, the level of which is controlled by fader 16 of the MASTERS BANK SELECT. When as a channel is soloed while in this mode, the Solo Bus is transmitted to the CRM and PHONES output and is displayed on the main stereo output meters. The Mix Bus at the MIX L/R outputs remains unaffected.

Use the AFL and PFL switches in the SOLO CONTROL panel to determine whether the Solo Bus is derived post-fade (AFL) or pre-fade (PFL). Selecting AFL will cancel a PFL selection, and vice versa. When AFL is selected, soloed channels are transmitted to the stereo Solo Bus post-fade, Post-Mute, Post-Dynamics, Post-EQ and Post-Pan. When PFL is selected, soloed channels are transmitted to the stereo Solo Bus pre-fade, pre-Mute, post-Dynamics, post-EQ and pre-Pan.

PFL/AFL is a useful way of listening discretely to an input signal without interrupting the main Mix Bus transmitted at the MIX L/R Outputs.

NOTE: For more information on SOLO modes please see **Section 3F - 'SOLO CONTROL'**. See also the Solo options available in the User Options menu (**Section 3J Part 5.2**).

GRP 1 - GRP 8

A selected channel can be routed to any of the 8 Group outputs by pressing the relevant GRP 1 - GRP 8 button.

The selected GRP button will illuminate to show that routing is active.

Channels may be routed to individual, mono Groups or to Stereo Groups that have been linked as odd/even pairs. When a channel is routed to a linked Group output, both linked GRP switches will illuminate. The pan positioning is maintained.

(See **Section 3H - Group/Aux/ FX** for more details)

Note that these switches act as SELECT switches for the relevant Group buses when in DYNAMICS ON E-STRIP mode (see **Section 3B Part 3**).

Query Mode

All switches of the SELECT Panel can operate in Query Mode, which allows a quick and easy way of viewing and altering current console configuration. By pressing and holding any of the buttons in the SELECT panel, the console displays the status of that switch for all channels on the console, by illuminating the relevant SELECT switches.

While continuing to hold the switch, the status of the channels may be altered by switching on or off the channels' SELECT switches. Releasing the SELECT Panel switch operating in Query Mode will return the console to normal operation, maintaining any alterations made during Query Mode.

As an example, if you wish to see which channels are routed to MIX:

- Press and hold MIX in the SELECT panel
- The SELECT buttons illuminate on those channels which are currently routed to MIX.
- Group outputs 1-8 can also then be routed to the MIX bus using the GRP1-8 switches.

NOTE: The MIX and GRP 1-8 switches can still be used in Query mode for their normal functions when in DYNAMICS ON E-STRIP mode (see **Section 3B Part 3**).

Besides the switches of the SELECT Panel, a number of other surface switches can operate in Query Mode.

The complete list is below:

PHASE	MIX
DIRECT OUT	REC ARM
EQ IN	MUTE
SIP SAFE	SOLO
AUX/FX PRE	CHANNEL/GROUP LINK
COMP/LIM BYPASS	GATE BYPASS
GRP 1 - GRP 8	DYNAMICS ON INPUT METERS

By pressing and holding any of the above switches, the state of the console can be quickly seen and altered.

The DYNAMICS ON INPUT METERS switch can be used in Query Mode. When active, querying this switch will show the Master meter levels for the duration of the hold.

