X-TOUCH Firmware V 1.15 - (January 2016)

Behringer X-TOUCH Universal Control Surface Firmware V 1.15

The X-TOUCH Firmware Update V 1.15 includes new functionality for your control surface operating system. It specifically offers 3 new operation modes that enable remote control and parameter feedback of BEHRINGER X AIR series digital mixers.

BEHRINGER is constantly adding new features and making enhancements to this extremely stable operating system, so that you always experience the best possible performance from your X-TOUCH controller. Check out behringer.com for updates regularly.

Note: Please note that firmware 1.12 or higher for X AIR mixers is required for enabling remote control from X-TOUCH via MIDI or Ethernet/LAN

New Features

- Allows full remote control of Behringer X AIR series digital mixers
- Supports connectivity via MIDI or Ethernet/LAN (DHCP or static IP)
- Offers 3 additional operation modes:
  - XCTL > controlling X AIR mixers, only
  - XCTL + MCU > allows toggling between X AIR mixer and DAW control via Mackie Control Universal emulation
  - XCTL + HUI > allows toggling between X AIR mixer and DAW control via Mackie HUI emulation

X-TOUCH Remote Control of X AIR Mixers

With the release of X-TOUCH firmware version 1.15, the X-TOUCH is able to remotely control the X AIR series mixers: XR12, XR16, X18, and XR18. The connection between the X-TOUCH and the mixer can be made via Ethernet connection or MIDI in and out connections. This document shows how to make the connections, and how to use the X-TOUCH in Xctl mode, Xctl + MC mode, and Xctl + HUI mode.

Operating Modes:	Display	Network	MIDI	USB	Footswitch/Pedal
Mackie Control Emulation	MC	✓	✓	✓	✓
Mackie HUI Emulation	HUI	✓	✓	✓	✓
X AIR mixer control	Xctl	X AIR	X AIR	—	—
X AIR and MCU control*	Xctl/MC	X AIR	X AIR	✓	✓
X AIR and HUI control*	XctlHUI	X AIR	X AIR	✓	✓

✓ – used for DAW control surface

* – toggle between X AIR and DAW control with “SMPTE/BEATS” button

Preparing a Connection Between X AIR Mixer and X-TOUCH Control Surface

Steps:	Preparation
1 a	Make sure your X AIR Mixer is updated to firmware 1.12 or higher
b	If necessary, go to your X AIR Mixer’s product page on behringer.com and download the most recent firmware file to your PC
c	Connect the X AIR EDIT application on your PC with your X AIR Mixer
d	Open the Setup/Connection page and upload the new firmware to your mixer
2 a	Make sure your X-TOUCH is updated to firmware 1.15 or higher. The current firmware is briefly displayed above “BARS” when starting
b	If necessary, go to the X-TOUCH product page on behringer.com and download the most recent firmware update file to your PC
c	Follow the instructions in the Readme.txt file contained inside the download zip file
3 a	Connect the X-TOUCH and X AIR Mixer using a standard Ethernet LAN cable, or alternatively using 2 MIDI cables (when “Ifc Mode” is MIDI)
b	Move the small slider switch on the X AIR Mixer to the “Ethernet” position and power the mixer up

Direct MIDI Connection Between X AIR Mixer and X-TOUCH Control Surface

Steps:	Preparation
4 a	Make sure your X AIR Mixer is switched on
b	Connect any X AIR remote control application with your Mixer as usual
c	Open the Setup/Audio-MIDI page, make sure that all MIDI Tx and Rx flags are off
d	Connect mixer MIDI In to X-TOUCH MIDI Out, and connect mixer MIDI out to the X-TOUCH MIDI In, using 2 standard MIDI cables
5 a	Hold down the CH01 Select button for more than 2 seconds while switching the X-TOUCH power on
b	The CH01 display will show one of the operating modes as described in the table “Operating Modes” above
c	Use the CH01 rotary encoder to select the mode “Xctl”
6 a	Then use the CH02 encoder to choose the interface “Ifc” between MIDI and Network. Select “MIDI” here
b	Press the CH01 Select button again, and the X-TOUCH will be updated with the mixer parameters, indicating that it is properly connected with the mixer

Direct Ethernet Connection Between X AIR Mixer and X-TOUCH Control Surface

Steps:	X-TOUCH Network Setup
4 a	Hold down the CH01 Select button for more than 2 seconds while switching the X-TOUCH power on
b	The CH01 display will show one of the operating modes as described in the “Operating Modes” table above
c	Use the CH01 rotary encoder to select the mode “Xctl”
d	Then use the CH02 encoder to choose the interface “Ifc” between MIDI and Network. Select “Network”
5 a	Use the CH03 encoder to specify the network mode “DHCP”
b	X-TOUCH can register on a network in two different modes: > DHCP = ON (default), automatically detects/assigns an IP address > DHCP = OFF, requires manual setup of “my IP” address (only choose OFF, if you have a preferred valid IP for X-TOUCH in your network)
c	Use the CH03 encoder to specify an IP address of the preferred mixer you wish to control, select “Slv IP”
d	Enter/modify the slave IP by turning the CH04...CH07 encoders
6 a	The LCD display contrast can be adjusted using the CH08 encoder
7 a	When the above settings are correct, press the CH01 Select button
b	The CH01 Select LED will turn off and the channel LCD displays will turn black for some time
c	Then the CH01-Ch03 displays will indicate: > the X-TOUCH IP address on the first line, and > the Mixer IP address on the second line
d	If the second line does not show a valid Mixer IP address, you may press the CH08 rotary encoder to “Scan” for another mixer
e	Wait for a little while, until the channel LCDs and fader positions are updated with the actual mixer settings
8 a	Now, your X-TOUCH control surface is connected with the mixer
b	You may use all the controls as described in the XCTL Mode overview shown later in this document
c	The next time X-TOUCH is started, it will automatically attempt to connect to the mixer with the specified Slv IP address again. If it does not connect automatically, go back to step 7d

Connecting X AIR Mixer and X-TOUCH Control Surface in LAN/WLAN Network Infrastructure

Steps:	Local area Network Setup
3 a	Connect any X AIR remote control application with your Mixer as usual, and open the Setup/network pages for reviewing/adjusting the LAN/WLAN settings
b	On LAN/WLAN setup pages you may choose either DHCP for automatically receiving an IP address from the network router, or manually select a Static IP Address and Subnet Mask that is valid in your network. DHCP is recommended. Static IP may be useful, if you are familiar with manual IP configuration
c	X AIR Mixer(s) can be connected to the local network either using a standard Ethernet LAN cable, or alternatively using the internal WLAN module in Wifi Client Mode
d	In case the mixer is registering on a wireless network, you will need to specify the exact SSID name of the Wifi network and the corresponding Key. See X AIR mixer documentation
e	Move the small slider switch on the X AIR Mixer to "Ethernet" position when using a wired connection, or slide it to "Wifi Client" when registering on a wireless network infrastructure
f	Connect your X-TOUCH to the network router/switch using a CAT5 Ethernet cable
4 a	Hold down the X-TOUCH CH01 Select button for more than 2 seconds while switching the X-TOUCH power on
b	Follow the instruction steps 4 to 8 in the section "DIRECT ETHERNET CONNECTION BETWEEN X AIR MIXER AND X TOUCH CONTROL SURFACE" shown above

Network Interface	Master rtp	Slave rtp	Static IP	DHCP
Mackie Control Emulation	✓	✓	✓	✓
Mackie HUI Emulation	✓	✓	✓	✓
X AIR mixer control	—	—	X AIR	X AIR
X AIR and MCU control[1]	—	—	X AIR	X AIR
X AIR and HUI control[1]	—	—	X AIR	X AIR

[1]Combined modes are controlling MCU/HUI via USB connection and X AIR Mixers via network or MIDI

MODE: XCTL

This section shows the operation of the X-TOUCH controls in XCTL mode
X-TOUCH firmware: 1.15 X AIR min firmware: 1.12

Operating Modes:	Display	Network	MIDI	USB	Footswitch/Pedal
Mackie Control Emulation	MC	✓	✓	✓	✓
Mackie HUI Emulation	HUI	✓	✓	✓	✓
X AIR mixer control	Xctl	X AIR	X AIR	—	X AIR
X AIR and MCU control[1]	Xctl/MC	X AIR	X AIR	✓	✓
X AIR and HUI control[1]	XctlHUI	X AIR	X AIR	✓	✓

✓ – used for DAW control surface

[1] – toggle between X AIR and DAW control with "SMPTE/BEATS" button

NOTE: Combined Operating Modes[1] are using the Ethernet or MIDI ports for controlling the X AIR Mixer, and use the USB Interface, Footswitch and Pedal input for controlling the DAW. The button "SMPTE/BEATS" can be used to toggle the console surface between both, Mixer and DAW control.

NOTE: X AIR Mixer MIDI rx/tx flags must be off, when X-TOUCH controls the mixer via MIDI

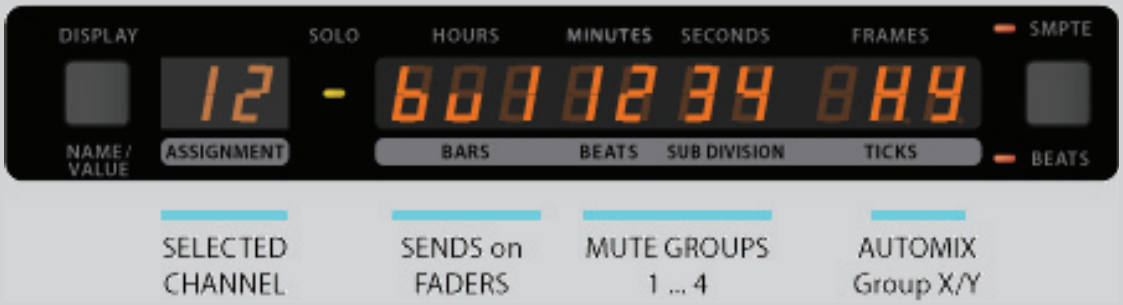
KEY: In the information below,* refers to the X18/XR18 only, and ** refers to XR12/XR16 only

Please refer to the diagram on the last page that shows the X-TOUCH top panel controls

General Buttons	
Global View	return to home view with channel names and pan
Flip	indicates Sends-on-Faders and allows to switch it off
SEL	select an X AIR channel for remote control
MUTE	mute an X AIR channel
SOLO	solo an X AIR channel
FDR BANK < >	select fader banks 1-8; 9-16; Aux/FX1-4 Return; Bus 1-6/Main; FX1-4 Send/DCA1-4
CHANNEL < >	scroll through channels 1 ... Main
Name / Value	clear all solos

Other Functions		display:	action:
FUNCTION	F5 - F6	—	—
FUNCTION	F7	X	Toggle AUTOMIX Group X on/off
FUNCTION	F8	Y	Toggle AUTOMIX Group Y on/off
MODIFY	SHIFT	FX1	Sends on Faders → FX 1
MODIFY	OPTION	FX2	Sends on Faders → FX 2
MODIFY	CONTROL	FX3	Sends on Faders → FX 3
MODIFY	# ALT	FX4	Sends on Faders → FX 4
AUTOMATION	READ	BU1	Sends on Faders → BUS 1
AUTOMATION	WRITE	BU2	Sends on Faders → BUS 2
AUTOMATION	TRIM	BU3	Sends on Faders → BUS 3
AUTOMATION	TOUCH	BU4	Sends on Faders → BUS 4
AUTOMATION	LATCH	BU5	Sends on Faders → BUS 5
AUTOMATION	GROUP	BU6	Sends on Faders → BUS 6
UTILITY	SAVE	1	Toggle Mute Group 1 on/off
UTILITY	UNDO	2	Toggle Mute Group 2 on/off
UTILITY	CANCEL	3	Toggle Mute Group 3 on/off
UTILITY	ENTER	4	Toggle Mute Group 4 on/off

Main Display



ASSIGNMENT	indicates selected channel number
BARS	indicates target bus/fx-send while Sends-on-Faders is active
BEATS/SUBDIVISIONS	indicates the active Mute Groups 1...4
TICKS	indicates active Auto Mixing Groups X and Y
LED: SMPTE	indicates XCTL surface[1]
LED: BEATS	indicates DAW control surface[1]

[1]) in combined Xctl-MC or Xctl-HUI modes only, use button to toggle

Channel Section		Global View: LCD displays show channel numbers and names in banks of 8
	SOLO MUTE SELECT	functions pertaining to the selected block of 8 channels
	Faders	fader levels pertaining to the selected block of 8 channels
	Meters	channel input meters pertaining to the selected block of 8 channels

Encoder Assign		turn:	push:	push + turn:	push + REC:	REC button:
all channels on selected bank	Global View (default)	panorama	pan-center	—	—	—
	TRACK	gain/trim	—	source select	48 V phantom	Select Analog In or USB Return*
	PAN/SURROUND	panorama	pan-center	—	—	Channel to Main LR on/off
	FLIP (Sends-on-Fader)	panorama when sending to stereo bus	pan-center when sending to stereo bus	Channel Send Mode: Input, Pre/PostEQ, Pre/Post Fdr, SubGroup	—	Channel ON, when bus is in SubGroup mode
for selected channel	EQ (Channel) page 1/2	1: select chan. 2: page select 3: LowCut freq. 4: — 5: Gain1 6: Gain2 7: Gain3 8: Gain4	—	1: — 2: page select 3: LowCut freq. 4: — 5: Freq1 6: Freq2 7: Freq3 8: Freq4	—	1: — 2: EQ on/off 3: LowCut on/off 4: — 5: — 6: — 7: — 8: —
	EQ (Channel) page 2/2	1: select chan. 2: page select 3: LowCut freq. 4: — 5: Q1 6: Q2 7: Q3 8: Q4"	—	1: — 2: — 3: — 4: — 5: Band Type1 6: Band Type2 7: Band Type3 8: Band Type4	—	1: — 2: EQ on/off 3: LowCut on/off 4: — 5: — 6: — 7: — 8: —
	EQ (Bus) page 1/2	1: select chan. 2: page select 3: Gain1 4: Gain2 5: Gain3 6: Gain4 7: Gain5 8: Gain6	—	1: — 2: Bus-EQ mode 3: Freq1 4: Freq2 5: Freq3 6: Freq4 7: Freq5 8: Freq6	—	1: — 2: EQ on/off 3: — 4: — 5: — 6: — 7: — 8: —

Encoder Assign		turn:	push:	push + turn:	push + REC:	REC button:
for selected channel	EQ (Bus) page 2/2	1: select chan. 2: page select 3: Q1 4: Q2 5: Q3 6: Q4 7: Q5 8: Q6	—	1: — 2: Bus-EQ mode 3: Band Type1 4: Band Type2 5: Band Type3 6: Band Type4 7: Band Type5 8: Band Type6	—	1: — 2: EQ on/off 3: — 4: — 5: — 6: — 7: — 8: —
	SEND (to Buses)	Send Level 1-6 / Pan 4, 6, 8 for stereo buses	—	—	—	Channel ON, when bus is in sub group mode
	PLUG-IN (send to FX)	5: Send to FX1 6: Send to FX2 7: Send to FX3 8: Send to FX4	—	—	—	—
	INST (Noise Gate) page 1/3	1: select chan. GATE: 3: Threshold 4: Mode 5: Range 6: Attack 7: Hold 8: Release	—	—	—	1: — 2: GATE on/off 3: — 4: — 5: — 6: — 7: — 8: —
	INST (Compressor) page 2/3	1: select chan. COMP: 3: Threshold 4: Ratio 5: MGain 6: Attack 7: Hold 8: Release	—	—	—	1: — 2: COMP on/off 3: — 4: — 5: — 6: Auto on/off 7: Auto on/off 8: Auto on/off
	INST (Assignments) page 3/3	1: select chan. AMix/ DCA/ MG 3: AutoMix Grp 4: A-MixWeight 5: — 6: — 7: — 8: —	1: -- 2: -- 3: -- 4: -- 5: DCA Grp 1 6: DCA Grp 2 7: DCA Grp 3 8: DCA Grp 4	—	—	1: — 2: — 3: — 4: — 5: Mute Grp 1 6: Mute Grp 2 7: Mute Grp 3 8: Mute Grp 4

FUNCTION		turn:	REC button:
FUNCTION	F1 - F4 = edit FX1-FX4	1: page select 2: — 3: param1 4: param2 5: param3 6: param4 7: param5 8: param6	When Delay effect types are selected, the REC button below the Delay Time parameter can be used for tapping the tempo

TRANSPORT FUNCTIONS for XR12/XR16 USB RECORDER		**	
STOP		amber LED	Stops all playback or recording
PLAY	while stopped 	green LED	Starts playback of selected track
PAUSE PLAY	while playing 	green flashing	Pauses current playback
FFWD	while playing 	amber LED	Fast forward in the playing track
FRWD	while playing 	amber LED	Fast rewind in the playing track
RECORD	while stopped 	red LED	Starts recording audio to the root of attached USB media
PAUSE REC	while playing 	red LED flashing	Pauses current recording
SKIP UP	while stopped 	—	Selects the next audio file in the list
SKIP DOWN	while stopped 	—	Selects the previous audio file in the list
TRANSPORT:	"REPLACE"	red LED	Toggles "Play Folder" option that continues playback for all files in the current folder

MODE: XCTL + MCU and XCTL + HUI

This section shows the operation of the X-TOUCH controls in XCTL + MCU mode and XCTL + HUI mode
X-TOUCH firmware: 1.15 X AIR min firmware: 1.12

Operating Modes:	Display	Network	MIDI	USB	Footswitch/Pedal
Mackie Control Emulation	MC	✓	✓	✓	✓
Mackie HUI Emulation	HUI	✓	✓	✓	✓
X AIR mixer control	Xctl	X AIR	X AIR	—	—
X AIR and MCU control[1]	Xctl/MC	X AIR	X AIR	✓	✓
X AIR and HUI control[1]	XctlHUI	X AIR	X AIR	✓	✓

✓ – used for DAW control surface

[1] – toggle between X AIR and DAW control with "SMPTE/BEATS" button

NOTE: Combined Operating Modes[1] are using the Ethernet or MIDI ports for controlling the X AIR Mixer, and use the USB Interface, Footswitch and Pedal input for controlling the DAW. The button "SMPTE/BEATS" can be used to toggle the console surface between both, Mixer and DAW control.

NOTE: X AIR Mixer MIDI rx/tx flags must be off, when X-TOUCH controls the mixer via MIDI

KEY: In the information below,* refers to the X18/XR18 only, and ** refers to XR12/XR16 only

Please refer to the diagram on the last page that shows the X-TOUCH top panel controls

XCTL OPERATING MODE DESCRIPTION

General Buttons	
Global View	return to home view with channel names and pan
Flip	indicates Sends-on-Faders and allows to switch it off
SEL	select an X AIR channel for remote control
MUTE	mute an X AIR channel
SOLO	solo an X AIR channel
FDR BANK < >	select fader banks 1-8; 9-16; Aux/FX1-4 Return; Bus 1-6/Main; FX1-4 Send/DCA1-4
CHANNEL < >	scroll through channels 1 ... Main
Name / Value	clear all solos

Other Functions		display:	action:
FUNCTION	F5 - F6	—	—
FUNCTION	F7	X	Toggle AUTOMIX Group X on/off
FUNCTION	F8	Y	Toggle AUTOMIX Group Y on/off
MODIFY	SHIFT	FX1	Sends on Faders → FX 1
MODIFY	OPTION	FX2	Sends on Faders → FX 2
MODIFY	CONTROL	FX3	Sends on Faders → FX 3
MODIFY	# ALT	FX4	Sends on Faders → FX 4
AUTOMATION	READ	BU1	Sends on Faders → BUS 1
AUTOMATION	WRITE	BU2	Sends on Faders → BUS 2
AUTOMATION	TRIM	BU3	Sends on Faders → BUS 3
AUTOMATION	TOUCH	BU4	Sends on Faders → BUS 4
AUTOMATION	LATCH	BU5	Sends on Faders → BUS 5
AUTOMATION	GROUP	BU6	Sends on Faders → BUS 6
UTILITY	SAVE	1	Toggle Mute Group 1 on/off
UTILITY	UNDO	2	Toggle Mute Group 2 on/off
UTILITY	CANCEL	3	Toggle Mute Group 3 on/off
UTILITY	ENTER	4	Toggle Mute Group 4 on/off

Main Display

ASSIGNMENT	selected channel and solo indicator for X AIR mixer or DAW control
BARS	Song position pointer of DAW
BEATS/SUBDIVISIONS	Song position pointer of DAW
TICKS	Song position pointer of DAW
LED: SMPTE	indicates active X AIR Mixer surface[1]
LED: BEATS	indicates active DAW control surface[1]

[1]) in combined Xctl-MC or Xctl-HUI modes only, use button to toggle

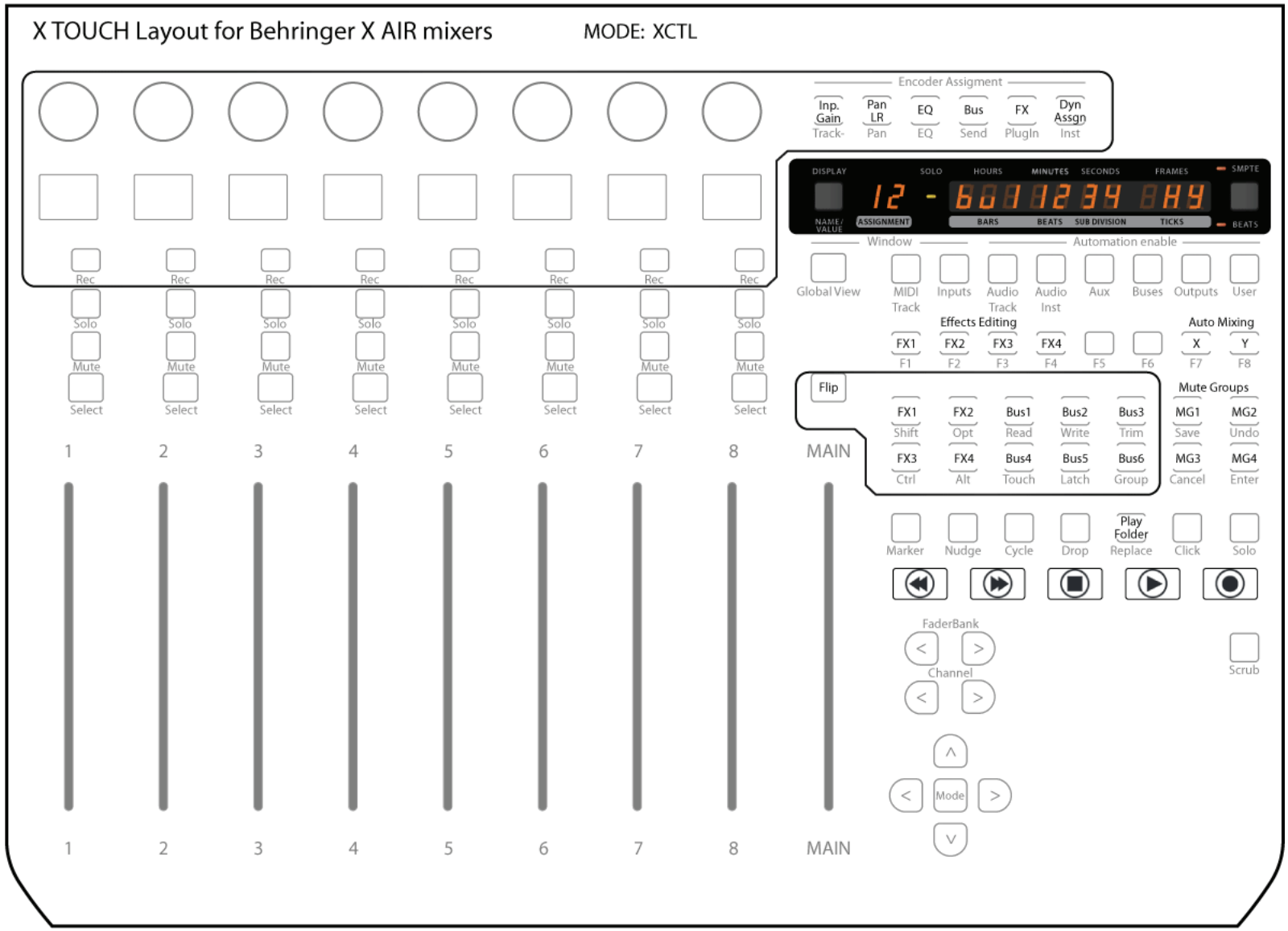
Channel Section		Global View: LCD displays show channel numbers and names in banks of 8
	SOLO MUTE SELECT	functions pertaining to the selected block of 8 channels
	Faders	fader levels pertaining to the selected block of 8 channels
	Meters	channel input meters pertaining to the selected block of 8 channels

Encoder Assign		turn:	push:	push + turn:	push + REC:	REC button:
all channels on selected bank	Global View (default)	panorama	pan-center	—	—	—
	TRACK	gain/trim	—	source select	48 V phantom “P” indicates 48 V ON	Select Analog In or USB Return*
	PAN/SURROUND	panorama	pan-center	—	—	Channel to Main LR on/off
	FLIP (Sends-on Fader)	panorama when sending to stereo bus	pan-center when sending to stereo bus	Channel Send Mode: Input, Pre/PostEQ, Pre/Post Fdr, SubGroup	—	Channel ON, when bus is in SubGroup mode
for selected channel	EQ (Channel) page 1/2	1: select chan. 2: page select 3: LowCut freq. 4: — 5: Gain1 6: Gain2 7: Gain3 8: Gain4	—	1: — 2: page select 3: LowCut freq. 4: — 5: Freq1 6: Freq2 7: Freq3 8: Freq4	—	1: — 2: EQ on/off 3: LowCut on/off 4: — 5: — 6: — 7: — 8: —
	EQ (Channel) page 2/2	1: select chan. 2: page select 3: LowCut freq. 4: — 5: Q1 6: Q2 7: Q3 8: Q4"	—	1: — 2: — 3: — 4: — 5: Band Type1 6: Band Type2 7: Band Type3 8: Band Type4	—	1: — 2: EQ on/off 3: LowCut on/off 4: — 5: — 6: — 7: — 8: —
	EQ (Bus) page 1/2	1: select chan. 2: page select 3: Gain1 4: Gain2 5: Gain3 6: Gain4 7: Gain5 8: Gain6	—	1: — 2: Bus-EQ mode 3: Freq1 4: Freq2 5: Freq3 6: Freq4 7: Freq5 8: Freq6	—	1: — 2: EQ on/off 3: — 4: — 5: — 6: — 7: — 8: —

Encoder Assign		turn:	push:	push + turn:	push + REC:	REC button:
for selected channel	EQ (Bus) page 2/2	1: select chan. 2: page select 3: Q1 4: Q2 5: Q3 6: Q4 7: Q5 8: Q6	—	1: — 2: Bus-EQ mode 3: Band Type1 4: Band Type2 5: Band Type3 6: Band Type4 7: Band Type5 8: Band Type6	—	1: — 2: EQ on/off 3: — 4: — 5: — 6: — 7: — 8: —
	SEND (to Buses)	Send Level 1-6 / Pan 4, 6, 8 for stereo buses	—	—	—	Channel ON, when bus is in sub group mode
	PLUG-IN (send to FX)	5: Send to FX1 6: Send to FX2 7: Send to FX3 8: Send to FX4	—	—	—	—
	INST (Noise Gate) page 1/3	1: select chan. GATE: 3: Threshold 4: Mode 5: Range 6: Attack 7: Hold 8: Release	—	—	—	1: — 2: GATE on/off 3: — 4: — 5: — 6: — 7: — 8: —
	INST (Compressor) page 2/3	1: select chan. COMP: 3: Threshold 4: Ratio 5: MGain 6: Attack 7: Hold 8: Release	—	—	—	1: — 2: COMP on/off 3: — 4: — 5: — 6: Auto on/off 7: Auto on/off 8: Auto on/off
	INST (Assignments) page 3/3	1: select chan. AMix/ DCA/ MG 3: AutoMix Grp 4: A-MixWeight 5: — 6: — 7: — 8: —	1: -- 2: -- 3: -- 4: -- 5: DCA Grp 1 6: DCA Grp 2 7: DCA Grp 3 8: DCA Grp 4	—	—	1: — 2: — 3: — 4: — 5: Mute Grp 1 6: Mute Grp 2 7: Mute Grp 3 8: Mute Grp 4

FUNCTION		turn:	REC button:
FUNCTION	F1 - F4 = edit FX1-FX4	1: page select 2: — 3: param1 4: param2 5: param3 6: param4 7: param5 8: param6	When Delay effect types are selected, the REC button below the Delay Time parameter can be used for tapping the tempo

TRANSPORT FUNCTIONS CONTROL DAW PERMANENTLY			
STOP		amber LED	Stops all playback or recording
PLAY	while stopped	green LED	Starts playback at current song position pointer (SPP)
PAUSE PLAY	while playing	green flashing	Pauses current playback and resets the song position pointer (SPP) to current position
FFWD	while playing	amber LED	Fast forward in the playing track
FRWD	while playing	amber LED	Fast rewind in the playing track
RECORD	while stopped	red LED	Starts recording audio to the root of attached USB media
PUNCH INTO RECORDING	while playing	red LED	Switches from Play to Record on armed tracks
DROP OUT OF RECORDIING	while recording	red LED off	Switches from Record to Play on armed tracks
SKIP FWD	while stopped	—	Sets the SPP to the next Locator or Marker
SKIP REW	while stopped	—	Sets the SPP to the previous Locator or Marker
TRANSPORT:	"CYCLE"	green LED	Toggles "Loop" or "Cycle" playback/recording between left/right locator points on/off


X TOUCH Layout for Behringer X AIR mixers
MODE: XCTL
Encoder Assigment
Inp. Gain Track-
Pan LR Pan
EQ EQ
Bus Send
FX PlugIn
Dyn Assgn Inst
DISPLAY
SOLO
HOURS
MINUTES
SECONDS
FRAMES
SMPTE
BEATS
NAME / VALUE
ASSIGNMENT
BARS
BEATS
SUB DIVISION
TICKS
Window
Automation enable
Global View
MIDI Track
Inputs
Audio Track
Audio Inst
Aux
Buses
Outputs
User
Effects Editing
Auto Mixing
FX1 F1
FX2 F2
FX3 F3
FX4 F4
F5
F6
X F7
Y F8
Flip
Mute Groups
FX1 Shift
FX2 Opt
Bus1 Read
Bus2 Write
Bus3 Trim
MG1 Save
MG2 Undo
FX3 Ctrl
FX4 Alt
Bus4 Touch
Bus5 Latch
Bus6 Group
MG3 Cancel
MG4 Enter
Marker
Nudge
Cycle
Drop
Play Folder Replace
Click
Solo
FaderBank
Channel
Scrub
Mode
Rec
Solo
Mute
Select
1
2
3
4
5
6
7
8
MAIN