

# ICE ❄️ 16

16CH MULTITRACK RECORDER + USB / FIREWIRE INTERFACE



**ALLEN & HEATH**

**INCLUDES ICE-16D  
WITH BALANCED D-SUB I/O**

# ICE \* 16

## 16CH MULTITRACK RECORDER + USB / FIREWIRE INTERFACE

ICE-16 RECORDS 16 TRACKS OF AUDIO DIRECTLY TO A USB KEY OR HARD DRIVE. JUST CONNECT THE 16 ANALOGUE INPUTS TO ANY LINE LEVEL SOURCE (YOUR MIXER'S DIRECT OUTS ARE IDEAL), PLUG IN YOUR MEMORY AND PRESS RECORD TO CAPTURE LIVE SHOWS, BAND REHEARSALS, CONFERENCES OR SERVICES FOR MIXING OR PLAYBACK AFTERWARDS.

ICE-16 ALSO FUNCTIONS AS A 16 X 16 CHANNEL INTERFACE TO YOUR COMPUTER IN THE STUDIO, STREAMING HIGH QUALITY DIGITAL AUDIO AT 24BIT, UP TO 96KHZ SAMPLE RATE OVER FIREWIRE OR HIGH SPEED USB 2.0. UNITS CAN BE LINKED WHEN STREAMING OVER FIREWIRE TO EXPAND THE CHANNEL COUNT EVEN FURTHER.

THE ICE-16D VERSION OFFERS FULLY BALANCED INPUTS & OUTPUTS ON STANDARD D SUB CONNECTORS, MAKING IT IDEAL FOR USE IN PROFESSIONAL STUDIOS OR WHERE LONG CABLE RUNS ARE NEEDED.

LIVE OR IN THE STUDIO, ICE-16 MAKES MULTITRACK RECORDING EASY.

### ■ ■ FEATURES

16 ANALOGUE INPUTS, 16 ANALOGUE OUTPUTS

FRONT USB SOCKET FOR QUICK CAPTURING TO USB MASS STORAGE DEVICES

HYBRID FIREWIRE (IEEE1394) / USB2 .0 16X16 AUDIO INTERFACE

INDUSTRY STANDARD WAV FILE FORMAT

UP TO 6 HOURS OF 16 CHANNEL AUDIO ON A 32GB USB STICK

SIGNAL PRESENT AND PEAK LED METERING ON EACH CHANNEL

MONO HEADPHONE BUS FOR INPUT OR OUTPUT MONITORING

DAISY CHAIN MULTIPLE UNITS OVER FIREWIRE

FAMILIAR TRANSPORT BUTTONS AND INTUITIVE CONTROLS

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16 TRS JACK INPUTS & 16 RCA OUTPUTS



# ICE \* 16D

16 BALANCED I/O WITH D SUB CONNECTORS



## CONNECT

MULTIPLE UNITS CAN BE DAISY-CHAINED OVER THE FIREWIRE BUS, OR KEPT IN SYNC USING THE DIN CONNECTORS WHEN RECORDING ON MULTIPLE USB DEVICES, MAKING ICE-16 THE PERFECT COMPANION FOR BOTH SMALL AND LARGE ANALOGUE CONSOLES SUCH AS OUR ACCLAIMED ZED, MIXWIZARD AND GL MIXERS. PLUG INTO YOUR DESK DIRECT OUTS OR USE A MIX OF GROUPS AND AUX SENDS TO SAVE ON CHANNELS.

## RECORD

THE USB DRIVE IS AUTOMATICALLY DETECTED AND CHECKED BY THE SYSTEM. STARTING THE RECORDING IS AS SIMPLE AS PUSHING A BUTTON. REMOVE AND PLUG THE KEY INTO A COMPUTER TO ACCESS OR TRANSFER THE WAV FILES TO ANY DAW.

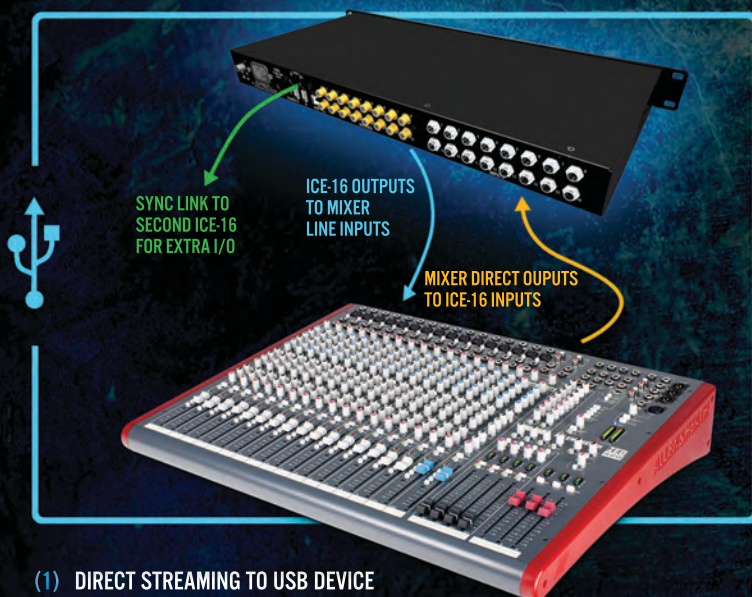
## APPLICATIONS

## INTERFACE

REMOVING THE USB STICK OR POWERING UP THE UNIT WITHOUT ONE ENABLES THE USB / FIREWIRE INTERFACE. SIGNALS PRESENT AT THE INPUTS WILL BE SENT TO THE MAC OR PC ON CHANNELS 1-16. WDM/ASIO DRIVERS AND USB2.0 CLASS COMPLIANCE ENSURE FULL COMPATIBILITY WITH MOST DAWS, INCLUDING LOGIC, SONAR, CUBASE AND PRO TOOLS.

## PLAY

FANCY A 'VIRTUAL SOUNDCHECK' OR JUST NEED TO PLAY CUES DURING A LIVE GIG? TRACKS CAN BE PLAYED BACK DIRECTLY FROM THE USB DRIVE AND FULL MULTICHANNEL AUDIO CAN BE SENT FROM THE COMPUTER TO THE ICE-16 ANALOGUE OUTPUTS.



(1) DIRECT STREAMING TO USB DEVICE - MULTIPLE UNITS CAN BE LINKED TO RECORD IN SYNC ON MULTIPLE USB KEYS, GAINING EXTRA I/O E.G. FOR A 32 CHANNEL MIXER.



(2) RECORDING ON A LAPTOP - MULTIPLE UNITS CAN BE DAISY-CHAINED ON THE FIREWIRE BUS, GAINING EXTRA I/O E.G. FOR A 32 CHANNEL MIXER.



## TECH SPECS ICE-16

### OPERATING LEVELS

INPUT (JACK SOCKET) 0dBu nominal (+21 dBu maximum)  
OUTPUT (RCA PHONO) 0dBu nominal (+21 dBu maximum)

### OPERATING LEVELS ICE-16 D

INPUT (D SUB CONNECTORS) +4dBu nominal (+26dBu maximum)  
OUTPUT (D SUB CONNECTORS) +4dBu nominal (+26dBu maximum)

### USB 2.0 & IEEE1394 FIREWIRE STREAMING

SAMPLE RATES (KHZ) 44.1, 48, 88.2, 96  
ROUND TRIP LATENCY <10mS

### METERING AND MONITORING

INPUT SIGNAL/OUTPUT SIGNAL LEVEL INDICATOR THRESHOLD -22dBu  
INPUT SIGNAL/OUTPUT PEAK LEVEL INDICATOR THRESHOLD +15dBu (6dB below clip)  
HEADPHONE MONITOR 1/4" & 3.5mm TRS Jack

### USB DRIVE DIRECT RECORDING

SAMPLE RATES (KHZ) 44.1, 48  
BIT DEPTH (DEPENDING ON USB DRIVE QUALITY) 16, 24  
MEMORY DEVICES USB 2.0/3.0 Stick or hard drive  
FILE FORMAT .wav  
MAXIMUM TRACK RECORDING TIME Mono track 16bit/44.1kHz 12:30h  
FAT/FAT 32 FILE SIZE LIMITED TO 4GB Mono track 16bit/48kHz 11.34h  
Mono track 24bit/44.1kHz 8:20h  
Mono track 24bit/48kHz 7:42h

### MEMORY USAGE RATE, 16 TRACKS

16BIT 44.1KHZ 84.67MB/minute  
16BIT 48KHZ 92.16MB/minute  
24BIT 44.1KHZ 127MB/minute  
24BIT 48KHZ 138.24MB/minute  
MAXIMUM SUPPORTED HARD DRIVE SIZE 8TB

## DIMENSIONS

SIZE (W X D X H) 482 x 230 x 44mm (19" x 9" x 1.75") : 1U  
WEIGHT (UNPACKED) 3kg (6.6lb)  
WEIGHT (PACKED) 4.4kg (9.7lb)

Technical specifications are subject to change without notice

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