T-Series Specifications

Format Separate MixRack and Surface with control & audio over a single CAT5 ACE™ cable

DSP iDR-64 RackExtra 64x32 mix engine located in MixRack

Local audio to/from Surface - ACE™ up to 120m CAT5 (depending on cable)* Audio Network Port A

Network option plug-in cards available - see website for details Audio Network Port B TCP/IP Ethernet (links to Surface via Port A ACETM), built-in switch Control Network At MixRack for A&H PL Series remote controllers and GPIO PL-Anet

In/Out.Can tunnel between Surface and MixRack via network MIDI

USB x2: Data transfer, archiving and firmware update, external touchscreen, keyboard

For connecting an external monitor to the TouchScreen VGA Internal, 100-240V.AC, 47-63Hz, 160W max per unit Mains Power

Architecture

Input Channels 64x with HPF, Insert, Gate, PEQ, Compressor, Limiter/De-esser, Delay **Output Mixes** 32x with Ext-in, Insert, PEQ, 1/3 oct GEQ, Compressor, Limiter, Delay Mix Types Any combination of Groups, Auxes, Internal FX, Mains, Matrix (mono or stereo) Mono, LR, LCR, LCRplus, LRSub, LCRSub, LRM, LCRM, None (monitors) Main Mix Types

Mono / Stereo Channels and Mixes may be configured as mono or stereo

Virtual patching of: Inputs, Inserts, FX, Mix Ext in, Outputs, Port B audio channel I/O **Patchbays**

Inserts Inserts assignable on all inputs and mixes, patch to any sockets

FX Engines 8x internal stereo 'RackExtra' FX racks, each capable of DSP emulations of industry classics

FX Patching Inserted or Send/Return loop. Mono or stereo sends, stereo returns

8x extra 'short' stereo return paths (PEQ) or use IP channels (full processing) FX Returns

72x (64 IP channels and 8x stereo internal FX returns) Max Sources to the Mix

DCAs 16x can be used as DCA or Mute groups

64x Gates, 96x Compressors, 96x Limiters, 112x PEQ, 32x GEQ Other processing

Performance

Digital processing 48kHz sampling, up to 48-bit processing

System Latency Analogue IN to Analogue OUT (MixRack) <1.6ms, ACE link is 100us (0.1ms) per hop

ADC 24-bit multi-bit delta sigma, 108 dB dynamic range DAC 24-bit multi-bit delta sigma, 117 dB dynamic range

Frequency Response 20-20kHz +0/-0.5dB THD+Noise (analog in to out) 0.0018% (-94dBu) @ +16dBu output (mic pre unity gain)

-94dBu typical Residual Output Noise

Audio Inputs and Outputs

XLR Mic/Line Inputs Recallable, Balanced, -15 to +65dBu, 1dB resolution, 25dB pad, +48V

 $>4k\Omega$, +32dBu max input, Noise EIN (150 Ω) -127dB Preamp Performance +/-24dB trim, >6kΩ, +4dBu nominal, +22dBu max TRS Jack Line Inputs RCA Phono Line Inputs +/-24dB trim, >10kΩ, 0dBu nominal, +18dBu max

XLR Line Outputs Balanced, Relay protected, <75Ω, +4dBu nominal, +22dBu max TRS Jack Line Outputs Balanced, Relay protected, <75Ω, +4dBu nominal, +22dBu max RCA Phono Line Outputs Unbalanced, Relay protected, <75Ω, 0dBu nominal, +18dBu max

RCA Phono Digital 2 ch SPDIF I/O. Input upto 96kHz sampling rate. Output at 48kHz sampling rate

iDR-32 MixRack 32x XLR mic/line in, 16x XLR line out iDR-48 MixRack 48x XLR mic/line in, 24x XLR line out

iLive-T80 Surface Inputs 8x [4xTRS, 2xRCA, 1xSPDIF], Outputs 8x [4xTRS, 2xRCA, 1xSPDIF] iLive-T112 Surface Inputs 16x [8xTRS, 4xRCA, 2xSPDIF], Outputs 12x [8xTRS, 2xRCA, 1xSPDIF]

Local Monitor TRS L and R available at the Surface

MixRack: 1/4" jack. Surface: 1/4" jack and minijack Headphones

Control

iLive-T80 Surface 20x faders, 2 banks (12,8), 4 layers = 80 control strips iLive-T112 Surface 28x faders, 3 banks (12,8,8), 4 layers = 112 control strips

Strip Assign Assign any strip as Input, FX, Mix master, DCA, engineer's Wedge/IEM **TouchScreen** 800x600 backlit, colour, touch with on-screen keyboard, data encoder **Processing Strip** Instant access to processing, Illuminated encoders, meters, PFL access

8x user assignable Soft Keys

100mm motorised, GEQ fader flip mode **Faders**

3 colour, 12 LED meter on every strip, PAFL, proc block and TouchScreen Meters

Copy, Paste, Reset of processing and mix parameters **Edit Functions**

PFL/AFL selectable, PAFL tools, Local/Phones outputs, Dual Wedge/IEM **Monitor Functions** Talkback TB mic with phantom power, assignable to any mix, patching, Latch function

Additional Surface Functions Freeze in Layers, Alt View, Screen and LED dimmer

MIDI, A&H PL Series remote controllers Other control

iLive Editor software for laptop Java-based online/offline editor and live control, connect via TCP/IP network

Memories

Name and store processing, FX, channel parameters and PL device settings Scenes 250x Store all or selected parameters, editable tree structure, Recall Safes

Stores current settings, preferences, all Scenes, Libraries Shows Administrator and up to 7 Guest users, Permissions, Password protectable **User Profiles**

Transfer and archive Shows and Libraries, USB Show Scene filter **USB**

Weights and Dimensions

6U rack, 482mm (19") x 265mm (10.4") x 250mm (10"), 12kg (26.4lbs) iDR-32 MixRack iDR-48 MixRack 8U rack, 482mm (19") x 353mm (14"") x 250mm (10"), 16kg (35.2lbs) iLive-T80 770mm (30.2") x 280mm (11") x 640mm (25"), 20kg (44lbs) iLive-T112 1090mm (42.6") x 280mm (11") x 640mm (25"), 27kg (59.4lbs)

5deg - 35deg Celsius Operating Temperature Range

^{* 120}m spec tested with Neutrik Etherflex and Belden Catsnake 1305A, both with EtherCon connectors.