



UR*i*
by Soundcraft
DJ MIXERS



HEADPHONE

MASTER

AUX 3

EXIT

AUX 4

R

PGM

E

BOOTH

HOUSE

BASS





THE AUTHENTIC SOUND OF DANCE MUSIC

The original Urei 1620 rotary fader DJ mixer set 1970s dancefloors alight with its fat bottom end, smooth midrange and ultra-sweet highs. Considered by many to be the best-sounding DJ mixer of all time, Urei remains to this day THE authentic sound of dance music.

And now it's back.

After careful consideration, highly respected mixing technology specialist Soundcraft has re-created the 1620 for the 21st Century. Remaining faithful to every detail of the original design, a limited edition of new 1620LEs enables a

new generation of DJs to enjoy the unique sound, feel and facilities of this legendary mixer.

At the same time, a new generation of Urei – the digital 1601 series and the 1603 and 1605 club mixers – combine the unmistakable Urei sound with the features demanded by modern DJs to deliver sonic and creative possibilities that the pioneering DJs of previous decades could never have imagined.

And that other mixer manufacturers can only dream about.

1620: THE LEGEND IS REBORN

When was the last time you worked with a DJ mixer that truly inspired you?
A mixer that actually made dance music sound the way you always knew it could?

The Urei 1620 was born in a golden age when great sound really mattered, and where an uncluttered, intuitive control surface freed up the DJ to really connect with both the music and the dancefloor. The new, limited edition 1620LE holds true to all those Urei traditions, using the same circuit designs and components as the original to deliver the fat, smooth and detailed sound that no other DJ mixer has ever come close to.



Urei

With six channels and flexible routing, the 1620LE has more than enough connectivity to handle sophisticated system configurations or installations. And when the dancefloor is packed, you'll love the instant, spontaneous and intuitive feel of the 1620LE's controls.

One look at the feature set will tell you that the 1620LE is all about the music. Classic rotary level & balance controls, great source flexibility, separate House and Booth outputs, a beautifully elegant headphone section and true balanced connections put performance where it really counts.

And we've ensured that today's 1620LE continues Urei's hard-earned tradition for reliability. Ruggedly engineered and manufactured to exacting tolerances, this mixer will keep you working, night after night, in the most demanding of environments.

Welcome to the new Urei 1620LE. The legend is reborn.

KEY FEATURES

- Six stereo channels with legendary Urei sound quality
- Individual L/R balance control on every channel
- Authentic and responsive rotary faders on all channels
- Channels 1 and 2 feature RCA phono inputs, allowing the easy integration of twin decks
- Auxes 1, 2 and 3 feature line level preamps, for direct connection of external sources
- Optional preamp cards allow Auxes 1-4 to carry Mic, Line or Phono level inputs
- Aux 4 carries a dedicated mic preamp, allowing instant connection of an external microphone
- Five extra aux inputs (A-E) can each be routed to auxes 1 to 4, giving unrivalled user flexibility
- Master Booth and House outputs, each with a dedicated level control
- Master mono House output
- Master bass and treble controls give +/-10dB of sweetening on all main outputs
- Sophisticated headphone section can be fed from any of the six channels, or the main program output
- Front panel illuminated headphone socket with dedicated level control
- Dual stereo recording outputs
- Master send-and-return FX loop
- Internal engineer set-up controls
- Durable construction for total reliability
- 3U 19" rack mounting format



1620: TECHNICAL

CHANNEL INPUTS

Phono 1 & 2: Stereo RCA phono inputs for direct turntable connection.

Auxes 1 - 3: Stereo RCA inputs for connection of line level sources such as CD, MP-3, tape etc. Optional preamp cards for Phono/Mic level connections.

Aux 4: Balanced XLR input for connection of mic level source. Optional preamp cards for Phono/Line level connections.

AUXES

Auxes A - E: Stereo RCA inputs for connection of external line level sources. These can be routed to any of the Aux inputs 1-4 (channels 3-6), allowing an extra level of input flexibility.

BOOTH OUTPUT

Stereo output, supplied on both isolated balanced XLR and unbalanced RCA connectors. Controlled by the master Booth level setting.

HOUSE OUTPUT

Stereo output, supplied on both balanced XLR and unbalanced RCA phono connectors. Controlled by the master House level setting. For lighting controllers, a mono summed House output is also provided on unbalanced jack, and is independent of the Master house level control.

TAPE OUTS

For recording purposes, two stereo tape outs are supplied on unbalanced RCA connectors.



This device complies with Part 15 of the FCC Rules. Subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference that may be received, including interference that may cause undesired operation. This Class A digital apparatus does not exceed the radio interference limits. Cet appareil numérique de la classe A ne dépasse pas les limites de l'interférence radio.



FX LOOP

A stereo FX loop is provided on unbalanced RCA connectors, in a 'Send & Return' format. This allows an external FX device to be patched into the main House & Booth signal paths.

HEADPHONE OUTPUT

Accessed via the front panel, the illuminated headphone output is supplied on a 1/4" stereo jack.

POWER SUPPLY

The high quality internal power supply is an integral part of the 16ZOLE's sound. An IEC power inlet is provided, along with a mains voltage selector switch - meaning that wherever you travel, your 16ZOLE can go with you.



TECHNICAL SPECIFICATION

FREQUENCY RESPONSE

Headphone Output 20Hz-20kHz (+/-1.5dB)

All Other Outputs 20Hz-20kHz (+0/-1dB)

TOTAL HARMONIC DISTORTION

Balanced House Output <0.1%, 30Hz-20kHz, +20dBu, 10k Ohms

Unbalanced House Output .. <0.05%, 20Hz-20kHz, +20dBu, 10k Ohms

Booth Output <0.05%, 20Hz-20kHz, +20dBu, 10k Ohms

Tape & FX Loop Outputs ... <0.05%, 20Hz-20kHz, +20dBu, 10k Ohms

Headphone Output <0.3%, 20Hz-20kHz, +20dBu, 200 Ohm load

IMPEDANCES (INPUT AND OUTPUT)

Phono 1&2 Input 47k Ohms

Microphone Input Optimised for 150 Ohm sources

Aux Input 10k Ohm nominal

FX Loop Input 10k Ohms

Balanced House Output <50 Ohms

Unbalanced House Output 75 Ohms

Booth Output 75 Ohms

Headphone Output <50 Ohms

Mono Output 5k Ohms

Tape & FX Loop Outputs 75 Ohms

MAXIMUM OUTPUT LEVELS

Balanced House Output +25dBu into 600 Ohms

Unbalanced House Output +20dBu into 600 Ohms

Booth Output +22dBu into 10k Ohms

Mono Output +14dBu into 5k Ohms

Tape & FX Loop Outputs +22dBu into 10k Ohms

POWER SUPPLY

Selectable 100-125/200-250V AC, 50/60Hz. Consumption 20W max.

DIMENSIONS/WEIGHT

133(H)x483(W)x203(D)mm / 5.25(H)x19(W)x8(D) inches 6kg/13.2lbs

UREI 1601 Performance Mixer



UREI 1601S Sampler Mixer



UREI 1601E Effects Mixer



Pictured: UREI 1601S Sampler Mixer



1601 SERIES: THE FUTURE

A lot has changed in dance music since the original Urei 1620 was launched back in the 80s. That's why we've developed three new digital mixers that bring the Urei sound bang up to date for the latest generation of performance-oriented DJs.

The 1601 Series embodies all the core values of the 1620 — great sound, logical and intuitive layout and real bulletproof durability.

Of course you get two channels with tough, longlife faders, sweet and smooth 3 band EQ and super-responsive LED metering. But that's just the start.

Check out the brilliant Aux/FX section with its flexible routing options, the built-in Exciter with frequency and mix controls and the easy-to-access front panel headphone monitoring facilities.

If you're into house, breaks or drum'n'bass then you'll love the onboard sampling features of the 1601S — a fully spec'd 2 bank 32 beat sampler packed with record and playback possibilities.

For those who love to shape sounds and create unique mixes, the 1601E's

Effects section delivers a wide variety of incredible sounds all easily added to the mix thanks to our powerful auto-sync bpm engine. Five preset effects (flange, cutter, filter, delay and pan), along with 25 combination presets and three band isolator give you incredibly creative possibilities making your set stand out from the crowd.

Then there's the classic Urei attention to detail that's so vital when you're up in the booth working that dancefloor. An open, uncluttered battle area around the main faders, an anodised top panel that means the legending won't fade away, and beautifully tactile controls that'll respond to your every move.

Introducing the 1601 Series. Welcome to the future of DJ mixing.

KEY FEATURES (ALL 1601 MODELS)

- Two stereo channels with both phono and line level input, trim control and input clip LED
- 3 band EQ (Low, Mid, Hi) on both channels providing full cut through to +6dB boost
- Separate mic/line input with dedicated insert point and 2 band EQ
- Input fader slope control and reverse facility
- Comprehensive Aux/FX section with separate send/return levels and select options
- Dedicated Booth and House outputs, provided on both balanced XLR and unbalanced RCA phono connectors
- Output Protection Limiter which prevents Booth, Master and Headphone outputs from clipping
- Mono/stereo switching on both Booth and Master outputs
- Send-and-return FX loop
- 80Hz HPF for removing turntable rumble
- 10 segment input/output metering with peak hold
- Exciter section with frequency and mix controls
- High quality 45mm user-replaceable cross and line faders with reverse and rotary curve control
- 25mm user-replaceable monitor crossfader
- Flexible headphone monitoring section, with level, EQ and master/cue switching
- Session In & Out facility to enable daisy chaining of mixers

SAMPLER SECTION (1601S ONLY)

- 2 bank 32 beat facility with 24bit/96kHz performance
- Playback assignable to both channels
- Write from Cue, Channels 1/2 or Master
- 1-shot, loop and reverse playback modes
- 25mm faders to control level and trigger playback
- BPM lock indicator and backlit sample buttons
- Footswitch option controls both sample banks

EFFECTS SECTION (1601E ONLY)

- Five preset effects (flange, cutter, filter, delay and pan), and 5 banks of 5 effects combinations (25 presets)
- Automatic or manual (tap) effects bpm synchronisation
- X-Y Modulation Controls
- Bpmtfx cross-fader for wet/dry balance
- 3-band isolator for bandpass in effects channel
- Selectable effects speed
- Digital, tape and vintage delay types
- Triangle, rise and fall LFO wave-forms
- Bpm lock indicator



1601 SERIES: TECHNICAL

CHANNEL INPUTS

Stereo line and phono inputs are provided on unbalanced RCA phono connectors. A front panel mic/line input is supplied via a balanced XLR/jack combi connector, while a separate stereo line input is also available via rear panel unbalanced RCA phono connectors.

An unbalanced insert point on 1/4" jack allows an external FX processor to be patched into the mic/line signal path.

BOOTH OUTPUT

The Booth output is provided on both balanced XLR and unbalanced RCA phono connectors, and is controlled by the master Booth level control. A 'Mic Defeat' switch mutes the signal from the mic to the booth output to avoid feedback.

MASTER OUTPUT

The Master output is provided on both balanced XLR and unbalanced RCA phono connectors, and is controlled by the Master level control.

FX LOOP

The send-and-return FX loop is supplied on unbalanced RCA phono connectors, and works in conjunction with the top panel Aux/FX level and routing controls.

PHONES SECTION

The front panel illuminated headphone output is supplied on both 1/4" jack and mini-jack connectors for total flexibility.

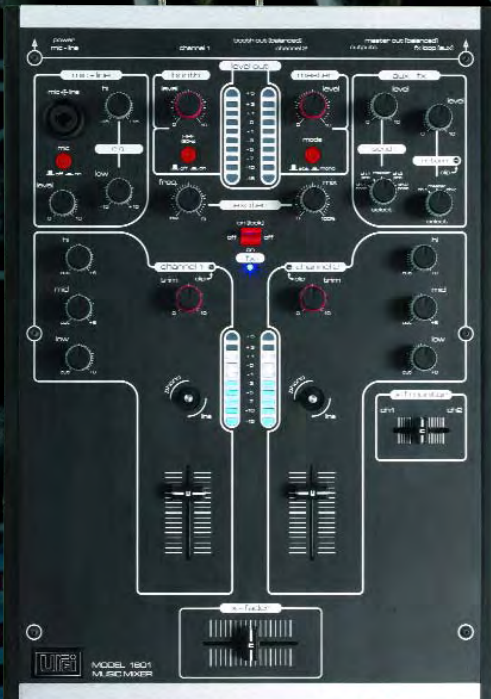
POWER SUPPLY

The high quality internal PSU is fed via an IEC mains inlet, allowing a detachable mains cable to be used. A cable retaining clip provides total cable security.

SAMPLER FOOTSWITCH FACILITY (1601S ONLY)

Both sample banks can be triggered via external footswitches, connected to the 1601S via the supplied 1/4" jack sockets.

Pictured: 1601



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TECHNICAL SPECIFICATION

FREQUENCY RESPONSE

CD/Line	20Hz-20kHz (+/-0.5dB)
Phono	20Hz-20kHz (+/-1.5dB/RIAA)
Mic [Line]	20Hz-20kHz (+/-2dB) (20Hz-20kHz (+/-0.5dB))
Aux/FX Return	20Hz-20kHz (+/-0.5dB)

SIGNAL/NOISE RATIO

CD/Line	90dB
Phono	75dB
Mic [Line]	70dB [90dB]
Aux/FX Return	90dB

TOTAL HARMONIC DISTORTION/CROSSTALK

THD	<0.02%
Crosstalk	80dB

AUDIO INPUTS (LEVEL/IMPEDANCE)

CD/Line	-12dBu/22k Ohms
Phono	-52dBu/47k Ohms
Mic[Line]	-52dBu/3k Ohms [-12dBu/22k Ohms]
Aux/FX Return	-12dBu/22k Ohms

AUDIO OUTPUTS (LEVEL/IMPEDANCE)

Master (Balanced)	+2dBu/600 Ohms
Master (Unbalanced)	+2dBu/1k Ohms
Booth Monitor, Mic Insert, FX Send	+2dBu/1k Ohms
Headphones	-2dBu/22k Ohms

DIGITAL AUDIO (SAMPLE/CONVERSION RATES)

96kHz/24bit

POWER SUPPLY

Internal universal voltage switched mode supply

DIMENSIONS/WEIGHT

90(H)x280(W)x395(D)mm / 3.5(H)x11(W)x15.5(D) inches 4kg/8.8lbs



1603/1605: INSTALLATION/CLUB MIXERS

The UREI 1603 and 1605 Installation Music Mixers provide a fully-featured control centre for Clubs and Performing DJs. With the legendary UREI sound quality, stunning looks and Soundcraft's exacting manufacturing construction, they are set to become the new standard in clubs worldwide. No club mixer has been designed to allow such total integration with the club sound system.

Employing unique functionality such as a rotateable connector panel so that connections may be made to the rear or underside of the mixer (for portable or fixed use), the UREI 1603 and 1605 have a rich feature set to match the requirements of today's DJs.



Much thought has gone into the design of the UREI 1603 and 1605 to ensure it has the right features for club installation.



For example, there is an external MUTE interface that when triggered, mutes all music channels leaving only the announcement/safety mic channel open for public address.

A comprehensive monitoring system allows not only monitoring of CUE channels and the MIX output, but also the Aux Send and Return signals. With the ability to split CUE monitoring between CUE and MIX signals with adjustable balance and a FLIP function which allows the split signals to be flipped in the earpieces along with EQ on the headphone output, the 1603/1605's monitoring is second to none.

Input connectivity and flexibility is maximized — each channel has connections for a Microphone (XLR), Deck (RIAA on RCA/Phono) and Line level (RCA Phono) sockets, with the RIAA inputs switchable to be line level, giving the 1605 a total of 7 Mic and 14 line level input connections. Furthermore, the Aux (FX) output has

its own return input conveniently located on the top panel to maximise connectivity.

And full connectivity options are provided on the outputs too, with both balanced XLR connectors and unbalanced RCA connectors for both Booth and Master outputs.

For installers, optional internal links on the Line inputs allow either a 10dB reduction in gain or +14dB gain increase, to allow for connection of MP3 players etc.

Other features include a tri-colour channel LED to indicate signal, beat (tempo) and peak warning, a 10-segment output meter and EQ on the Booth outputs.

The UREI 1603 and 1605 — Club Sound will never be the same again.



Pictured: UREI 1603

Pictured: UREI 1605

KEY FEATURES

- 4 Full-function stereo channels (1603)
- 7 Full-function stereo channels (1605)
- Each has inputs selectable from Mic, Phono and Line connections
- Phono inputs are switchable to become Line level, individually
- Mic insert on channel 1 for ease of connecting external processing
- Rotatable rear panel allows connectors to be located on the rear of or underneath the console (for best cable access)
- External mute function mutes all channels except mic channel 1 to allow PA announcements but mutes music
- 3-band EQ on Channel 1 (Mic) $\pm 12\text{dB}$
- 3-band ISOLATOR EQ on channels 2-7, isolating from full cut to $+6\text{dB}$
- 1 Aux send per channel: Channel sends switchable pre/post fader individually; Aux Return conveniently located on top panel and can be assigned to crossfader
- Comprehensive CUE/Monitoring system: Aux send can be CUE'd to headphones; Aux Return can be CUE'd to headphones
- VCA-based crossfader reduces fader noise and allows fully variable control curves for total control of crossfade mixing style
- Headphone Output on 1/4" and Mini-jack connectors
- EQ on headphone output
- Booth and Master Outputs on XLR, balanced and RCA, unbalanced
- Comprehensive booth controls — EQ, mute function and L/R/Stereo output selector
- Separate master mono output
- High Pass filter on Master and booth outputs eliminates stage or turntable rumble
- Balance control on Master output
- Master Output Mono switching
- DJ Mic (channel 1 only) to booth output defeat switch
- Tri-colour LED shows Signal/Beat/Peak metering
- Split Cue Headphone switch
- Flip function switches Cue and Mix in headphones (L and R)
- 10-segment Blue/White/Red LED output metering, which can read Left/Right or Split Cue/Mix
- Integral rack ears for easy desktop/rack mounting
- Individual channel gain structure controls (boost $+14\text{dB}$ or reduce -10dB)
- Master output attenuator pads (engineer only -10dB and $+20\text{dB}$)

1603/1605: TECHNICAL

CHANNEL INPUTS

Mic inputs are on balanced XLR connectors, while RIAA and Line inputs are provided on unbalanced RCA phono connectors. A 1/4" TRS Insert jack is provided in the Mic path of Channel 1 to allow connection of external processing.

BOOTH OUTPUT

The Booth output is provided on both balanced XLR and unbalanced RCA phono connectors, and is controlled by the master Booth level control. A 'Mic Defeat' switch mutes the signal from the mic to the booth output to avoid feedback.

MASTER OUTPUT

The Master output is provided on both balanced XLR and unbalanced RCA phono connectors, and is controlled by the Master level control. A separate 1/4" jack feeds a balanced mono sum of the booth output signal.

AUX/FX LOOP

The send-and-return Aux/FX loop is supplied on unbalanced RCA phono connectors, and works in conjunction with the top panel Aux/FX level and routing controls.

PHONES SECTION

The front panel illuminated headphone output is supplied on both 1/4" jack and 3.5mm mini-jack connectors for total flexibility.

EXTERNAL MUTE FUNCTION

This contact port will mute all music channels except Mic input 1, to allow PA announcements. Useful for fire alarm systems.

POWER SUPPLY

The high quality internal PSU is fed via an IEC mains inlet, allowing a detachable mains cable to be used. A cable retaining clip provides total cable security. Universal power supply 100V-240V AC. Consumption 50W max.



TECHNICAL SPECIFICATION

INPUT AND OUTPUT LEVELS

XLR INPUT (ELECTRONICALLY BALANCED) MIC

Gain range	+22 - +54db with +20dB/-12dB gain trim
Max. Input level	-14dBu
Input impedance	2 kohms

INSERT SEND (UNBALANCED, CH 1 ONLY)

Nominal level	0dBu
Max. output level	+20dBu into 2 kohms
Output impedance	.75 ohms

INSERT RETURN (UNBALANCED, CH 1 ONLY)

Max. input level	+20dBu
Input impedance	>50 k ohms

PHONO/LINE INPUT (UNBALANCED)

Nominal level	0dBu
Trim	+12/-20dBu
Max. input level	+20dBu
Input impedance	45 kohms

REAR PANEL CONNECTOR CONNECTIONS

XLR INPUT AND OUTPUT (3 PIN FEMALE XLR)

Pin 1	Ground
Pin 2	Signal Hot
Pin 3	Signal Cold

INSERT SEND AND RETURN (1/4" TSR JACK)

MIC 1 AND 2 ONLY

Tip	Send
Ring	Return
Sleeve	Ground

PHONO AND 1/4" JACKS

Tip	Hot
Sleeve	Screen

High Pass Filter 18dB/Octave @ 6Hz

MASTER/BOOTH OUTPUT

Output impedance	.75 ohms
Recommended load	600 ohms or greater
Frequency Response	± 1dB, 20Hz-20kHz
Distortion	<0.05% THD, 20Hz-20kHz @ +16dBu
Max. output	+20dB into 600 ohms

HEADPHONE OUTPUT

Output impedance	<40 ohms
Recommended load	150 ohms or greater
Frequency response	+0, -1dB, 20Hz-20kHz into 200 ohm load
Distortion	<0.05% THD, 20Hz-20kHz @ +16dBu
Max. output	190mW into 150 ohms

MONO OUTPUT

Output impedance	.75 ohms
Recommended load	2k ohms or greater
Frequency response	± 1dB, 20Hz-20kHz
Distortion	<0.05% THD, 20Hz-20kHz @ +16dBu
Max. output	+20dBu into 2k ohms

EFFECTS LOOP OUTPUT

Output impedance	.75k ohms
Recommended load	5 k ohms or greater
Frequency response	± 1dB, 20Hz-20kHz
Distortion	<0.05% THD, 20Hz-20kHz @ +16dBu
Max. output	+20dB into 2k ohms

NOISE

All channels routed at unity, mix at unity	< -95dB
Crosstalk (@ 1kHz)	< -95dB

CHANNEL MUTE

Fader Cut-off (rel. 0 Mark)	< -95dB
FX Sends offness	< -90dB

INPUT AND OUTPUT IMPEDANCE

Mic input	2k ohms
Line input	45k ohms
Stereo input (Unbalanced RCA Phono)	30k ohms
Mix output	.75 ohms
Aux output	.75 ohms
Headphones output	40 ohms

MAXIMUM OUTPUT LEVELS

Insert Send output	+20dBu into 2k ohms
Mix output	+20dBu into 600 ohm
Aux output	+20dBu into 2k ohms
Booth output	+20dBu into 600 ohms
Headphones output	+20dBu into 300 ohms
Headphones	190mW into 150 ohms

DIMENSIONS/WEIGHT

1603

Without rack ears (mm)	87.6(H) x 338(W) x 400(D)
With rack ears (mm)	87.6(H) x 381(W) x 400(D)
Weight	7.5kgs/16.5lbs

1605

Without rack ears (mm)	87.6(H) x 440(W) x 400(D)
With rack ears (mm)	87.6(H) x 483(W) x 400(D)
Weight	8.7kgs/19.1lbs

Urei

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SOUNDCRAFT

HARMAN INTERNATIONAL INDUSTRIES LTD.,
CRANBORNE HOUSE, CRANBORNE ROAD
POTTERS BAR, HERTS, EN6 3JN, UK
T: +44 (0)1707 665000
F: +44 (0)1707 660742
E: info@soundcraft.com

SOUNDCRAFT USA

8500 BALBOA BLVD.
NORTHBRIDGE, CA 91329, USA
T: +1-818-920-3212
F: +1-818-920-3208
E: soundcraft-usa@harman.com

www.ureidj.com

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This equipment complies with the EMC Directive 89/336/EEC

Part No: ZL0632
Issue 4

H A Harman International Company



K 81 DJ



K 181 DJ

Soundcraft recommends AKG professional DJ headphones for use with Urei DJ mixers

www.ake.com/dj