# BuMal

# Upscaling digital/CD transport



# 01 Getting started with BLU MKII

The BLU MKII is a highly advanced hand-made digital/CD transport, precision engineered to the highest standards. Please take a moment to familiarise yourself with the various features of the device to ensure you get to enjoy the full range of performance



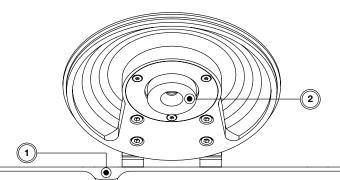
To open the CD lid, locate the knuckle at the rear and gently lever the sprung mechanism in a fluid downward motion (never apply force). Gently use the knuckle to lever the lid to close

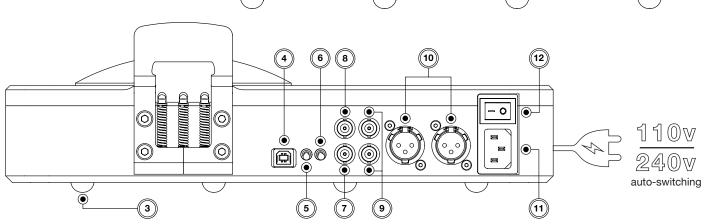


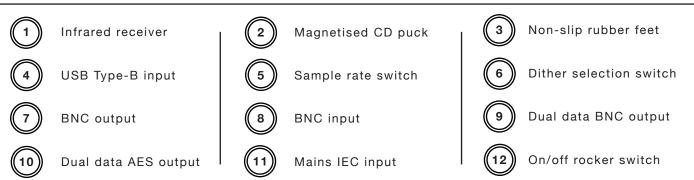
For optimal performance, do not cover the infrared receiver (1) or place BLU MKII within cabinets or enclosures



BLU MKII may get warm. To avoid overheating please keep the device in a well ventilated environment. We recommend using our dedicated Choral Ensemble equipment support.









Inventory



1m USB Type-B cable



Mains IEC cable

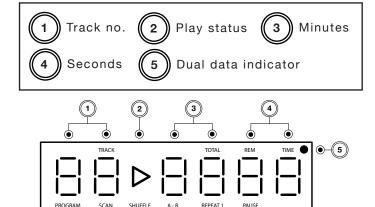


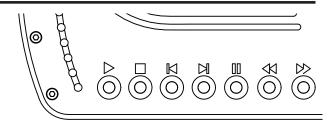
Infrared remote control



THIS PRODUCT EMPLOYS A LASER THAT EMITS BOTH VISIBLE AND INVISIBLE RADIATION. REMOVAL OF THE TOP COVER OR TAMPERING WITH THE CLOSURE MECHANISM OR ANY OF THE ENCLOSED ELECTRONICS, MAY RESULT IN EXPOSURE TO HAZARDOUS LEVELS OF LASER RADIATION THAT COULD CAUSE EYE AND SKIN DAMAGE. TO PREVENT INJURY IN THE EVENT OF MALFUNCTION, THIS PRODUCT SHOULD BE RETURNED TO YOUR ORIGINAL DEALER FOR A QUALIFIED SERVICE. THERE ARE NO USER-SERVICEABLE COMPONENTS WITHIN BLU MKII

### 02 Display and basic operation







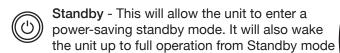
For your convenience, all basic CD functions can be accessed from the top panel. They can also be accessed from the included remote control (see below)

# 03 Getting to know the remote control

We have included a comprehensive infrared remote control that allows you to access additional features that cannot be accessed via the top panel, such as shuffle, repeat, time modes etc. Additionally, the remote has the added benefit of being able to natively control DAVE and other Chord Electronics' separates.



#### **BLU MK II CONTROL BUTTONS**





Numerical buttons - These select playback track. Follow with 'OK'



Shuffle - Tracks will playback in a random order until all have been cycled once



Time - By default, the time elapsed will appear on the display. To cycle between time elapsed, total time and time remaining, continue pressing the 'TIME' button until desired display is shown



Repeat - This function allows you to repeat a whole album or a single track. Pressing 'REP' once will display 'REPEAT' on the display and will repeat the whole album. Pressing 'REP' a second time will display 'REPEAT 1' on the display and repeat the current track. Pressing 'REP' a third time will cancel all programmed repeats





Plays the track

Pauses the track

Stops all playback





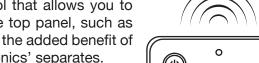


Fast-forward/rewind

Skips a track

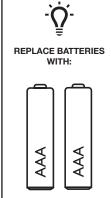


IF BLU MK II DOES NOT RESPOND TO REMOTE CONTROL INPUT, PLEASE REPLACE THE BATTERIES. ONLY USE BATTERIES OF THE SAME TYPE. DO NOT MIX OLD AND NEW CELLS





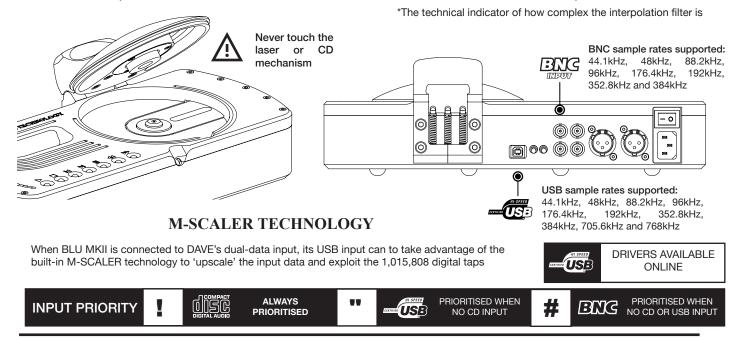
IR RECEIVER





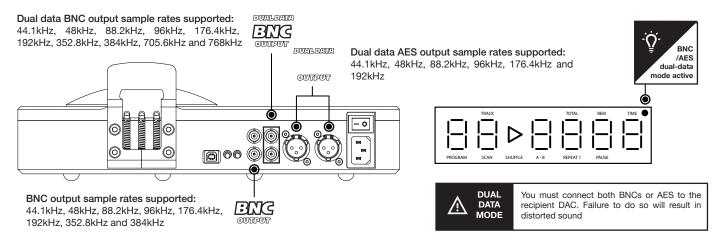
### 04 CD playback, input options and specifications

The BLU MKII uses the legendary Philips CD Pro 2 mechanism for high-quality tracking and data recovery. Combined with Robert Watts' latest M-SCALER technology, BLU MKII benefits from 1,015,808 taps\* and can extract 16x the resolution of a conventional 44.1kHz compact disc.



## 05 Output options and specifications

BLU MK II can output up to a 384kHz data stream using its single BNC output, a total of 192kHz via the dual AES outputs, or 768kHz by using the dual BNC outputs. You can pair Blu MK II with any DAC that accepts a 384kHz BNC input, but we recommend pairing BLU MKII with a Chord Electronics DAC such as DAVE or Hugo 2, to accept the full 768kHz signal.

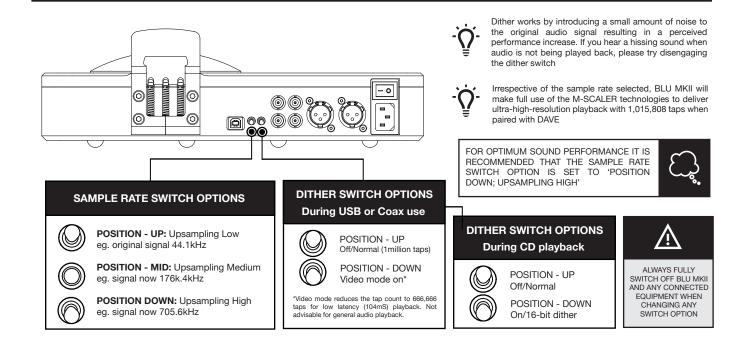


When BLU MKII is in operation, all outputs are active. You can connect BLU MKII to multiple devices, however, it is recommended that only one is connected. When switched off, some DACs can short out the connection creating a conflict and potentially inhibiting playback.



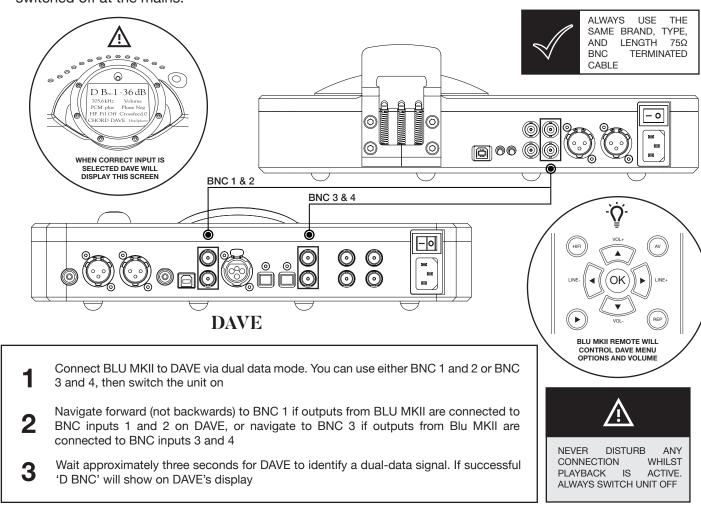
BLU MKII uses BNC terminations as standard, although not advised for maximum performance a BNC-to-coaxial adapter can be used. Please note that for the maximum sample rate to be transmitted from BLU MKII to your DAC you must use a high-quality shielded  $75\Omega$  interconnect. We advise keeping your interconnect length to a minimum, preferably with a 1m maximum and purchasing a matched pair.

### 06 Dither and sample rate switch options

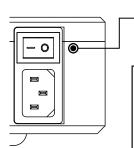


#### 07 Installation with DAVE

Whether used as a CD transport, or as a digital upscaler, BLU MKII is the perfect companion for DAVE and connecting the two is easy. Please make sure that before you embark on this next step, DAVE is switched off at the mains.



#### 08 Powering up and placement



**WARNING** 

THIS UNIT MUST

**BE EARTHED** 

After making all connections and selecting both the appropriate dither and sample rate, power up the BLU MKII by locating the rocker switch at the rear of

the device and firmly press to 'ON' or 'I'

the unit may get warm during operation

switching off the device will not affect performance during use.

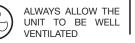
#### **PLACEMENT**



KEEP BLU MKII OFF OF CARPET AND SOFT SURFACES



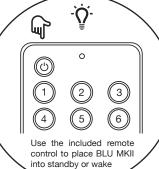
ALWAYS KEEP AWAY FROM SOURCES OF HEAT AND DIRECT SUNLIGHT





Due to the enormous FPGA processing capabilities of the BLU MKII

FOR OPTIMAL PERFORMANCE WE RECOMMEND PURCHASING THE ENSEMBLE STAND





Although BLU MKII can be permanently left on for convenience, as a minimum it is recommended that when not in use you allow the device to enter standby mode. For longer periods of inactivity, the device should be switched off via the rocker switch on the rear. Manually

## 09 Important information

#### **CARE OF YOUR UNIT**



NEVER ALLOW BLU MKII COME INTO CONTACT WITH LIQUIDS.



NEVER POKE OBJECTS INTO THE CONNECTORS OR HOUSING



**NEVER SPRAY CLEANER** OR LIQUIDS ONTO BLU



ONLY USE A CLEAN DRY MICROFIBRE CLOTH TO CLEAN BLU MKII

#### **USB DRIVERS**



BLU MKII's high-resolution USB input is natively compatible with Apple Macintosh and Linux based operating systems drivers are required.



Windows For operating systems you must have Windows 7 and above and you must download the drivers available from the product page of the chordelectronics.co.uk website.



#### **WARRANTY REGISTRATION**



BLU MKII comes comprehensive 5-year warranty, covering parts and labour, from the date of purchase. To activate this warranty please register your Electronics website:

chordelectronics.co.uk/regi ster-product







THERE ARE NO USER SERVICEABLE PARTS INSIDE BLU MKII. IN THE EVENT OF A FAULT, RETURN UNIT TO YOUR DEALER FOR A SERVICE.

# 10 Specifications

Digital inputs: CD, USB Type-B, and BNC S/PDIF

Digital outputs: AES (176.4kHz), BNC S/PDIF (384kHz), and DUAL BNC S/PDIF galvanically isolated

Frequency response: DC to 20kHz ± 0.0000001dB In-band ripple DC to 20kHz: DC to 20kHz ± 0.0000002dB

Stop band rejection: -135dB

THD and noise 24-bit input: -144dB (defined by input) WTA tap-length, 16FS filter: 1,015,808 taps Dimensions: 335mm x 105mm x 170mm (WxHxD)

Weight: 7kg



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