

Opus 21
XS extra sources
Owner's Manual



resolution

From all of us at Resolution Audio, thank you for choosing the Opus 21 XS. In conjunction with the Opus 21 compact disc player, the XS creates a complete 2-channel high performance audio system.

Unpacking

After unpacking your Opus 21 XS, inspect it for any shipping damage and contact us immediately if any is found. Do not connect to the Opus 21 system if you find any shipping damage.

Please keep all packing materials for future transport. Shipping the Opus 21 in anything other than its original crate may result in damage that is not covered by warranty. If you require a replacement crate or packing materials, please contact Resolution Audio.

Should you need to repack the unit, be certain to place it between the supplied foam sheets, with the accessory box on top.

The accessory box contains the following items:

- Remote control
- (2) AAA batteries
- Digital cable for connection to Opus 21 cd player
- AM loop antenna

To install the batteries in the remote control, open the cover on the back of the remote. Insert the batteries in the orientation shown in the compartment, and replace the cover.

Installation

The XS must be used in conjunction with your Opus 21 cd player and Power Centre.

Your Power Centre may require a software update for use with the XS. Contact your dealer or Resolution Audio directly for assistance.

Turn off the power to the Opus 21 at the rear of the Power Centre.

Prior to installation, all equipment should be turned off using the main power switch.

The XS must be located directly underneath your Opus 21 cd player.

First, remove the dust cover from the connector located on the bottom of your Opus 21 cd player. Next, position the cd player directly on top of the XS, ensuring the connectors are aligned. Press the connectors firmly together to secure the connection.

Using the XS with an Opus 21 series amplifier

The XS must be located directly above your amplifier.

Remove the dust cover from the connector located on the bottom of your Opus 21 XS. Next, position the XS directly on top of the amplifier, and install it as the cd player was installed above.

Using the XS with another preamplifier or amplifier

Turn off all of your components prior to connecting the Opus 21.

This minimizes the chance of momentary electrical surges disturbing your system.

When using a preamp or integrated amplifier, use the fixed outputs.

With all of your equipment turned off, connect the analog outputs labeled FIXED to any line-level input of your preamp or integrated amp.

When using a power amplifier, use the variable outputs.

With all of your equipment turned off, connect the analog outputs labeled VAR to the inputs of your amplifier.

Turn on the main power switch of the Opus 21 Power Centre.

The ON position is selected when the | symbol on the switch is depressed. The Opus 21 will take a few seconds to initialize and read the disc if present. The Opus 21 initially sets the volume to a low level (50).

Turn on the rest of your system.

It is a good habit to turn the amplifier on last, and off first, to prevent surges and transients from reaching your loudspeakers.

Insert a disc and press PLAY, or select any of the sources provided by the XS.

Adjust the volume. When using the FIXED outputs, the volume is controlled by your preamp or integrated amp.

Safety Precautions



The lightning flash with an arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

- Check that the operating voltage of your unit is identical to that of your local power supply.
- Replace fuses only with identically rated fuses.
- To reduce risk of electrical shock, keep the unit dry and grounded. Do not operate the unit near water.
- If the unit causes RF interference with another product, move one unit or both until the interference is eliminated. If the interference cannot be sufficiently reduced, cease operation and consult Resolution Audio.
- Clean the chassis, faceplate, and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzine.
- Do not discard the original box and packing materials. When shipping the unit to another location or for repair work, repack in original material.
- Do not attempt to service this product. All servicing should be referred to qualified service personnel.
- Do not install the unit in a location near heat sources such as radiators or heat ducts, or in a place subject to mechanical vibration or shock.

Warranty

Resolution Audio warrants all products against faulty workmanship or defective materials for a period of three (3) years from date of shipment, with the exception of transport mechanisms. Transport mechanisms are covered for one (1) year. If a defect occurs within this period, Resolution Audio will repair, replace, or issue a credit for the product at our discretion. Prior to return, authorization is required. All merchandise must be returned in the original packing material with all accessories. If a product is recalled and it is not returned within 90 days, the warranty is void. This warranty is not transferrable. Resolution Audio assumes no responsibility for defects resulting from misuse, neglect, improper installation, unauthorized repair, alteration, inadequate packing, or accident. No other obligations expressed or implied shall be assumed by Resolution Audio.

Warranty Registration

SAVE YOUR SALES SLIP AND REGISTER AT WWW.RESOLUTIONAUDIO.COM

- You must be able to show evidence of purchase date to obtain warranty parts and service
- Warranty registration of your unit ensures that you will be contacted immediately if there should be a safety inspection, modification, or other product recall under applicable laws or regulations or otherwise. If you did not purchase directly from Resolution Audio, please visit www.resolutionaudio.com to register your player.

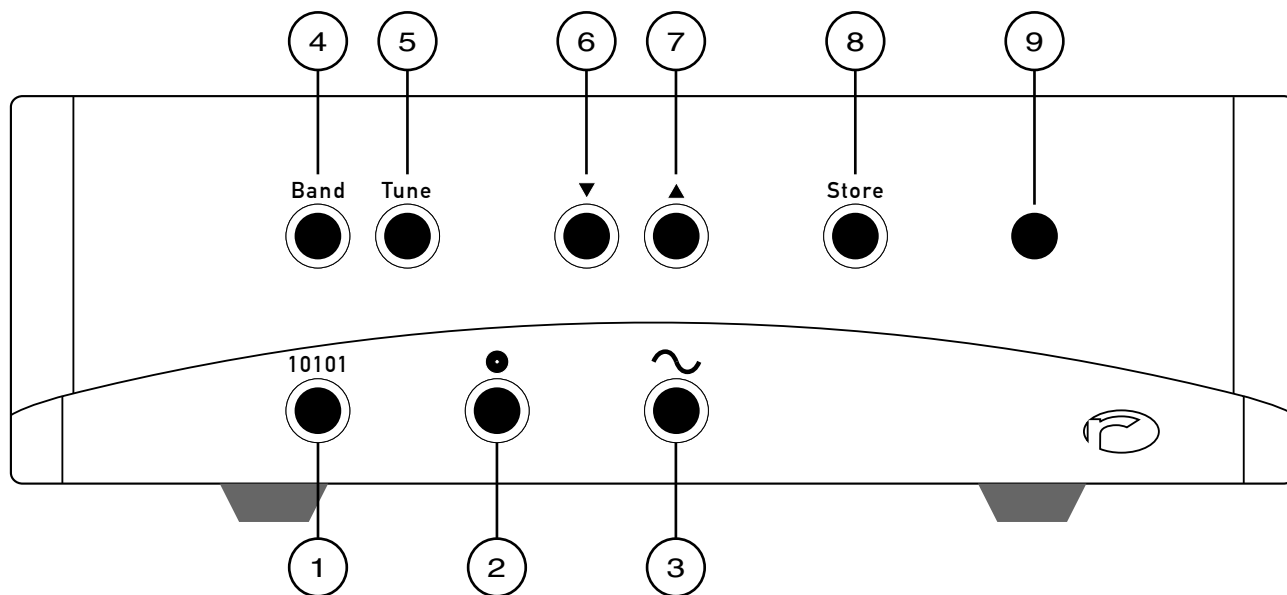
Model: Opus 21 XS
extra sources

Serial Number: _____

Purchase Date: _____

Purchased From: _____

Front Panel and Controls



1

10101

DIGITAL INPUT

Pressing this button selects the previously used digital input. Successive presses select the next digital source in following sequence: Coax 1 → Coax 2 → Optical 1 → Optical 2 → USB

2



PHONO INPUT

Pressing this button selects the previously used phono input. Successive presses toggle the phono input between MC (moving coil) and MM (moving magnet).

3



ANALOG INPUT

Pressing this button selects the previously used analog input. Successive presses toggle the analog input between source A and B.

4

Band

TUNER BAND

Pressing this button selects the tuner. Successive presses will change the tuner band in following sequence:

FM→AM (North America and countries without LW)

FM→MW→LW (Europe)

5

Tune

TUNING MODE

This button toggles the tuning mode between SEEK and PRESET.

SEEK mode is indicated by the band name (‘FM’) next to the station frequency.

PRESET mode is indicated by the preset number.

If no presets are available in the current band, there is no change.

If the tuner was not the active source, Tune will also select the tuner.

6



STATION DOWN / UP

In SEEK mode, the next station will be found. The tuner will automatically wrap around the ends of the band. To stop seeking the next station, press this button again.

7



In PRESET mode, the next preset station will be selected. Holding one of the buttons will rapidly advance through the preset stations.

8

Store

PRESET STORE

This button is used to store stations in the preset memory. To save a new preset, the tuner must be in SEEK mode. Tune the desired station using the STATION DOWN / UP buttons or the PREVIOUS / NEXT FREQUENCY buttons on the remote control. Press store once, and the display will indicate (flashing) the next available preset. This can be changed using STATION DOWN / UP to overwrite existing presets. Once the desired preset number is chosen, press store again and the preset is saved. The tuner returns to SEEK mode. If the store or up/down buttons are not pressed within 10 seconds, the store action is cancelled. Pressing BAND or TUNE will also cancel the store operation.

The maximum number of presets available are 80 (FM), 30 (AM / MW), 6 (LW).

Preset memory may be cleared in Setup mode (see below.)

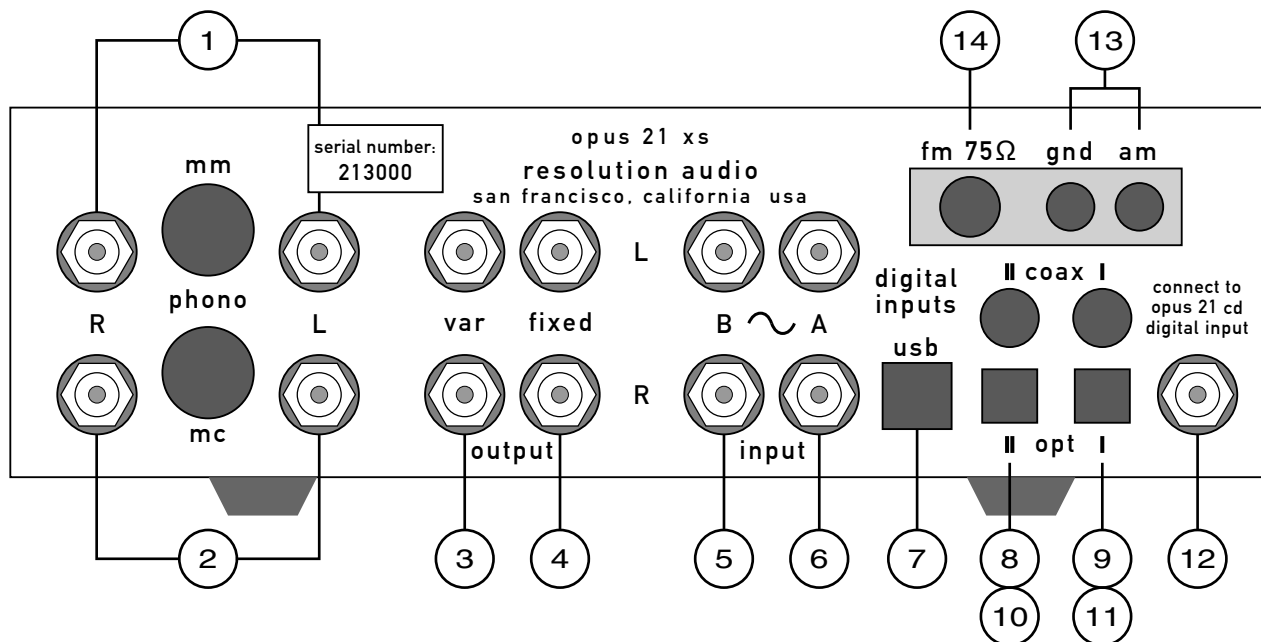
9

HEADPHONE

The XS headphone amplifier provides output of any of the XS sources plus CD playback.

If present, your Opus 21 series amplifier will automatically be muted when headphones are plugged in.

Rear Panel and Connections



- 1** Moving Magnet phono input
47 kOhm / 220 pF input impedance
Connect to turntable using either the stereo RCA plugs or a single DIN plug.
- 2** Moving Coil phono input
1 kOhm / 6800 pF input impedance
Connect to turntable using either the stereo RCA plugs or a single DIN plug.
- 3** Analog Output, variable
2.5Vrms maximum, 100 Ohm impedance
Suitable for direct connection to power amplifier.
- 4** Analog Output, fixed
2.5Vrms maximum, 100 Ohm impedance
Suitable for connection to preamp or integrated amplifier line-level input.

5

Analog Input A and B
Line-level input for connection to analog source,
such as a TV tuner, VCR, or tape player.

6

7

USB Digital Input
Connect to PC or Mac USB host 1.1 or 2.0, using a standard USB 'A to B' cable.
With Windows XP or 2000, all audio will automatically be routed to the XS.
With Mac OSX, audio must be routed to the USB port by selecting
System Preferences → Sound → Output, and choosing the USB port.

8

Coaxial Digital Input I, II
75 Ohm RCA S/PDIF

9

Connect with a 75 Ohm coaxial cable to digital sources,
such as a DVD player, satellite receiver, or DAT.
In the case of a multi-channel source, the digital output should be set to 2-channel PCM mode.
Compressed audio such as Dolby Digital or DTS will not be decoded.

10

Optical Digital Input I, II
Toslink S/PDIF

11

Connect with a Toslink fiber-optic cable to digital sources,
such as a DVD player, satellite receiver, or DAT.
In the case of a multi-channel source, the digital output should be set to 2-channel PCM mode.
Compressed audio such as Dolby Digital or DTS will not be decoded.

12

Digital Link to CD
Connect to Opus 21 cd digital input using the supplied cable.
Use the red plug at the XS and the black plug at the CD.

13

AM Antenna
Connect the included loop-antenna to the screw terminals. Adjust its position with respect
to the direction of the transmitter to improve reception.

14

FM Antenna
For optimal FM radio reception a roof or loft mounted aerial is recommended.
A 75 Ohm coaxial cable should be used to bring the radio signal to the tuner.
Alternatively, an indoor dipole antenna may be used. Mount it as high on the wall as possible,
and position the elements horizontally.

Remote Control

The Opus 21 XS remote control contains most of the controls on the front panels, plus the following:

System

Display



This button controls the intensity of the display. Upon power-up, the display begins in its brightest state. Subsequent presses of this button cycle through four levels:

Bright → Medium → Dim → Off

In the Off mode, pressing any key will "wake-up" the display momentarily at medium intensity. If the disc is playing, pressing play on the remote will wake the display without affecting playback.

Mute



Pressing this button engages the muting function without affecting the transport or volume setting. A second press restores the output to its current volume setting. When mute is on, the volume level indication flashes.

CD Transport

Tray

Pressing this button opens and closes the cd drawer.

Repeat



Pressing this button once enters disc repeat mode. A second press enters track repeat mode. A third press, or ejecting the disc, exits repeat mode. Repeat is indicated on the display by the following symbols:

Disc repeat  Track repeat 

Tuner

Mono

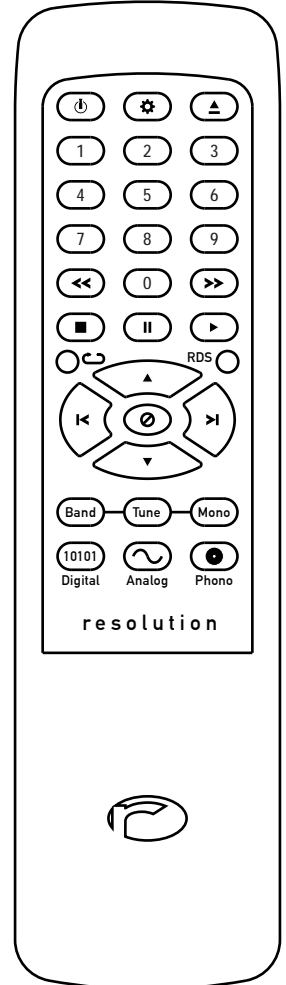
Pressing this button forces the current FM station into mono. When the tuned station is weak, background hiss can be reduced by selecting mono. Changing stations will revert automatically to stereo.

RDS

Pressing this button changes the RDS display (FM only):

PS (program service) → RT (radiotext) → Off

If no PS or RT information is available for the current station, no action is taken. On power-up, the default RDS display is PS.



Multifunction

- ◀ Prev** When playing a cd, pressing these buttons selects the next/previous track. Holding the button will rapidly advance through the tracks.
- ▶ Next** When the tuner is selected, these buttons act the same as the up/down buttons on the XS front panel. In SEEK mode, the next station will be found. In PRESET mode, the next preset will be selected.
- Scan**
◀▶ When playing a cd, pressing and holding these buttons will perform a fast forward or backward scan. The program will be audible at a reduced level in play mode, and silent in pause mode.
When the tuner is selected, these buttons 'free tune' and allow any frequency to be selected. This will also force the tuner into SEEK mode.
- 0, 1, .. 9** When the tuner is the selected source, these buttons provide direct access to preset stations available on the current band. If any other source is in use, they provide direct access to tracks on the cd. For example, to go directly to track 25, press 2 followed by 5. For track 2, either press 0 followed by 2, or press 2 and wait a moment.

Setup Mode

The Opus 21 offers customization features accessible in the SETUP mode. For example, the initial volume setting on power-up can be changed from the default of 50. To access this mode, place the Opus 21 in standby (via remote control or front panel) and then press the REPEAT button on the remote. Successive presses of the PLAY button will display the setup options as well as displaying the firmware revisions present in each product. The custom settings selected in setup will be remembered when power is disconnected. To exit setup mode, press the REPEAT button. The Opus 21 will re-enter standby mode.

In setup mode, the tuner region can be changed. This will set the tuning steps and frequencies available for the selected region. Note that changing regions will also clear all stored preset stations. Presets may also be cleared by pressing the '5' button during the appropriate setup option as indicated on the display.

Specifications

Dimensions	24 x 25 x 7.5 cm / 9.5 x 9.8 x 3" W x D x H
Weight	9 kgs / 20 lbs. shipping
Inputs	Direct connection to Opus 21 cd player Moving Coil phono via RCA or DIN, 1 kOhm / 6800 pF impedance, 65 dB gain Moving Magnet phono via RCA or DIN, 47 kOhm / 330 pF impedance, 40 dB gain FM antenna via 75 Ohm F-type or Belling-Lee (IEC 169-2) coaxial jack AM antenna via 300 Ohm screw terminal (2 pair) Analog single-ended via RCA (2) Digital S/PDIF, RCA, up to 96 kHz / 24-bit (2) Digital S/PDIF, Toslink, up to 96 kHz / 24-bit USB digital audio, PCM stereo, via Type 'B' jack
Outputs	Direct connection to Opus 21 series amplifier (1 pair) Analog single-ended via RCA, fixed level (1 pair) Analog single-ended via RCA, variable level Headphone via 6.4mm stereo jack, 10 Ohm output impedance
Attenuation	0.5 dB steps from -30 dB to full scale 1.0 dB steps from -69 dB to -31dB