



Chapter

Qube Reference 500M
Quick Start Guide



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1. Left touch sensor options

a. Front LED brightness control

To change the brightness of the front panel and standby panel blue lights, press and hold the LEFT touch sensor strip on the front panel for 4-5 seconds until the front panel lights start to flash.

After the lights finish flashing, press and hold the left touch sensor strip to lower the brightness level or press and hold the right touch sensor strip to raise the brightness level to the desired level.

Once you are happy with the brightness level, simply wait for 5 seconds and the front panel lights will flash again for 5 seconds to confirm the change.

b. Internal LED brightness control

To change the brightness of the internal blue lights, first put the unit into "MUTE" mode by pressing the "STANDBY" button on the top panel for less than 1 second.

The RED lights in both front panel touch sensor strips will illuminate to indicate that the unit is in "MUTE" mode.

Next press and hold the LEFT touch sensor strip on the front panel for 4-5 seconds until the Internal lights start to flash.

After the lights finish flashing, press and hold the left touch sensor strip to lower the brightness level or press and hold the right touch sensor strip to raise the brightness level to the desired level.

Once you are happy with the brightness level, simply wait for 5 seconds and the Internal lights will flash again for 5 seconds to confirm the change.



Left Touch Sensor Strip



2. Right touch sensor options

a. Input Display

You can display the currently selected input setting and Earth selection setting by using the Right touch sensor strip.

Please ensure that the unit is not in “MUTE” mode, and that none of the front panel RED Lights are illuminated or are flashing before starting. Press and release the Right touch sensor strip within 2 seconds, to put the unit into “DISPLAY” mode.

Firstly, the unit will flash the RED lights associated with the selected input for five seconds. These are LEFT touch sensor strip RED lights for RCA Input, or the RIGHT touch sensor strip RED lights for the XLR Input.

The speed of the lights flashing indicates the status of the Earth select configuration according to the table opposite.

After displaying the Earth selection the unit will hold the RED lights on for a further 5 seconds. During this time you can alter the Earth Selection setting using the procedure shown below.



Right Touch Sensor Strip

Input Selected	Flashing Speed	Description
RCA Input (Option Recommended for use with Chapter Product)	Fast	Gain stage input COLD connection is connected to System 0v (AGND). RCA Input connected between AGND & HOT connection (AGND is floated from the chassis via a 100Ohm Wire-wound resistor)
RCA Input	Slow	Gain stage input COLD floated from System 0v (AGND) via a 100K Impedance. RCA Input connected between COLD & HOT connection (AGND is floated from the chassis via a 100Ohm Wire-wound resistor)
XLR Input (Option Recommended for use with Chapter Product)	Fast	Gain stage input HOT & Cold are directly connected to XLR Pins 3 & 2 respectively. System 0v (AGND) is connected directly to the System Chassis GND. (AES recommended Balanced Input Specification)
XLR Input	Slow	Gain stage input HOT & Cold are directly connected to XLR Pins 3 & 2 respectively. System 0v (AGND) is floated from the chassis via a 100Ohm Wire-wound resistor)



2. Right touch sensor options

b. Input Toggle

You can toggle between the XLR and RCA inputs by using the Right touch sensor strip.

Please ensure that the unit is not in “MUTE” mode, and that none of the front panel RED Lights are illuminated or are flashing before starting.

Press and hold the Right touch sensor strip for at least 2 seconds, to toggle between the inputs. This will change the selected input and put the unit into “DISPLAY” mode as described above to show the new selected input and Earth selection mode.

c. Input Earth Select

You can toggle between the Earth select modes by using the Right touch sensor strip. Please put the unit into “DISPLAY” mode using the procedure described in section ‘a’ above.

When the RED lights have finished flashing to show the current Earth selection setting, they will stay on continuously for a further 5 seconds. During this time press and hold the RIGHT touch sensor for 5 seconds. This will toggle the Earth selection setting, and the unit will enter “DISPLAY” mode from the start of the process as described above.

The unit will not change the relay status until the end of display mode and will briefly flash both front panel RED lights to confirm the change, and will then return to “NORMAL” mode.



Right Touch Sensor Strip



3. Standby button options

a. Mute

You can put the unit into “MUTE” mode by pressing the STANDBY touch sensor button for less than 2 seconds.

The unit will indicate “MUTE” status by turning on both the RIGHT and LEFT RED lights on the units’ front panel.

b. Standby

You can enter and exit “STANDBY” mode by pressing and holding the STANDBY touch sensor for more than 2 seconds.

Touch Sensor Operation

The Qube Reference 500M uses state of the art QPROX™ touch sensor technology first developed by QPROX™ for the Apple iPod.

For the most reliable operation, during initial cold power on (i.e. mains power on) and after release from “STANDBY” mode, the unit will perform a calibration of the touch sensors to compensate for any noise in the units’ external environment (either electrical or radiated). This may cause the sensors to become unresponsive during this time. Please allow the calibration cycle to complete to ensure reliable operation.

If any button is pressed and held for more than 60 seconds this will also automatically trigger the above calibration process.

Standby Touch Sensor

