

This guide presents the basic steps required to install an Oasis broadcast console. Additional details can be found in the Oasis User manual (customer doc 75-58), which can be downloaded from the GatesAir Customer Portal. The Oasis Control Center app can also be downloaded from this site. See customer doc 71-2010 for site access details or contact GatesAir tech support (217.222.8200, Quincy, IL) for download site access, and for any questions on installing or using the Oasis console.

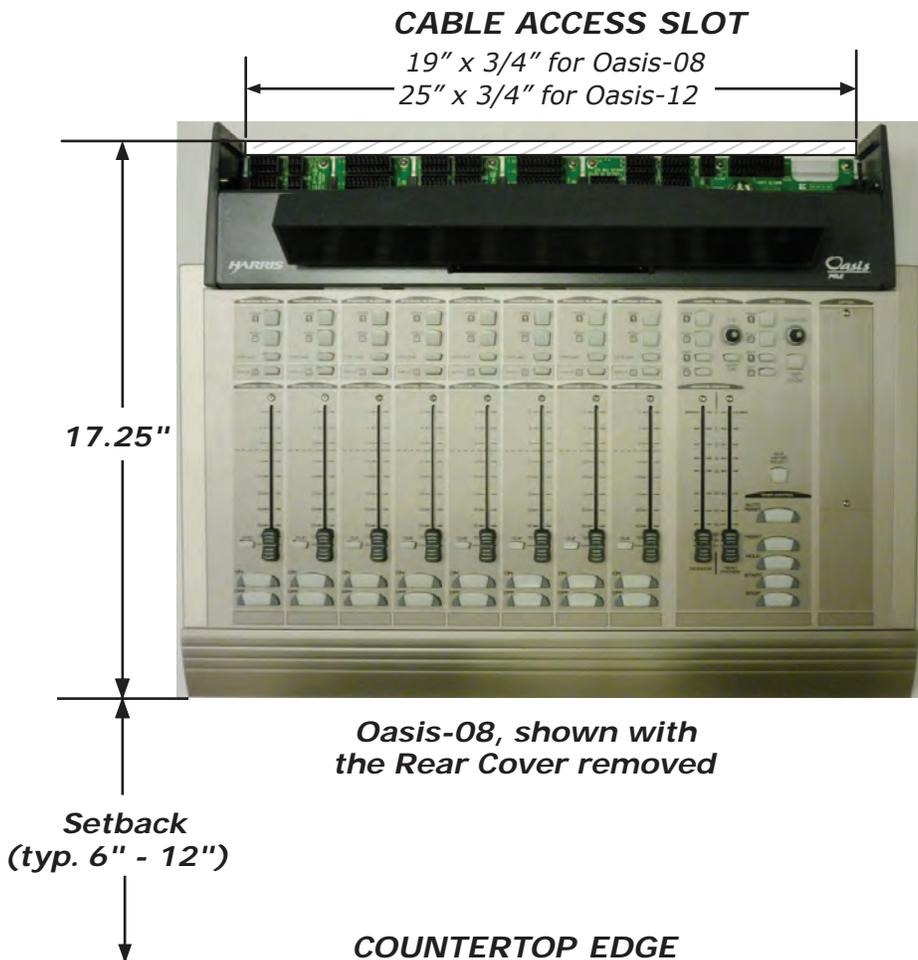
Tools used to install the Oasis console



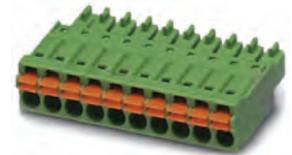
1

Prepare your countertop for the Oasis console

The Oasis console is typically set 6 to 12 inches back from the front edge of the countertop. All wiring plugs into cards along the console's rear. These are hidden by a removable flip-up cover. To route wiring from below the countertop, we recommend cutting a 3/4" wide Cable Access Slot. Use a drill and a router, jigsaw, or other similar tool to cut this slot. Note the cutout slot dimensions, listed below, for each size Oasis console.



SOLDERLESS, NO CRIMP, AUDIO & LOGIC CONNECTIONS



Audio & logic wiring is preped and terminated into Phoenix Combicon plugs (supplied) and then plugged into the console's connectors.

Wire gauges of 24 to 16 AWG (0.2 - 1.5 mm²) fit into the plugs.

Four sizes of Combicon plugs are used on the Oasis console:

- 3-terminal (AES digital audio & microphone inputs)
- 6-terminal (analog audio I/O)
- 10-terminal (fader channel logic)
- 12-terminal (CR & Studio logic)

Combicon plugs for the Oasis Main card are supplied in the console installation kit. Combicon plugs for individual Audio and Logic I/O cards are packaged separately.

The Console and Card Quick Guides have termination details.

2

Position the Oasis on the countertop

Set the Oasis console onto the countertop so its rear cover hides the Cable Access Slot. To ease wiring, remove the rear cover by opening it up, and backing out the #1 Phillips screw in the left hinge, until the cover can be lifted up and removed off the right hinge. The screw remains in the threaded insert, but be sure to retain the two white plastic bushings (one on each hinge) for reuse when the cover is reinstalled after wiring is complete.

The Oasis can also be fastened to the countertop, if desired. Refer to the Oasis User Manual (customer doc 75-58) for instructions.



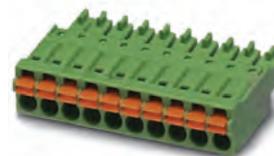
Removing the Rear Cover Left Hinge Screw

3

Prepare the audio and logic wiring

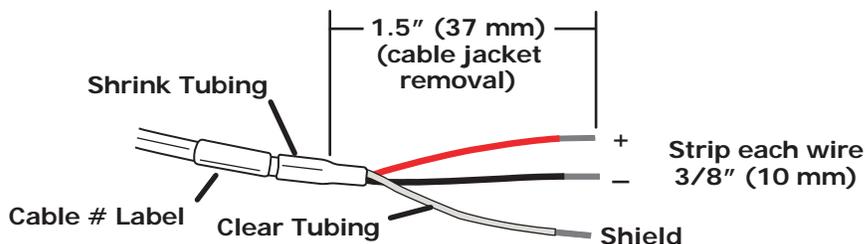
Audio and logic wiring terminates into Phoenix Combicon plugs. Each type of signal (microphone, stereo analog, monitor output, fader channel logic, and monitor logic) is on a separate plug to make installation and future wiring changes easy and non-intrusive.

We recommend using a small table-top vise to hold the Phoenix Combicon plugs while they are wired. The Home Depot model 69997 tabletop vise (about \$17.00 USD) is shown in the photo.



Phoenix Combicon Plug

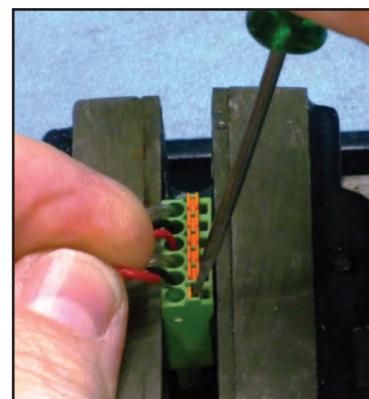
Prepare the audio and logic cables for termination by stripping the cable jacket back 1.5" (37mm), then strip each wire 3/8" (10 mm). If shielded audio wiring is used, cover the shield wire with clear plastic tubing. Use heat shrink tubing to cover the cut jacket end and to hold the clear tubing in place, as shown below.



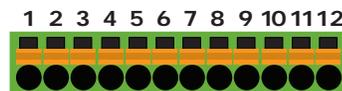
Audio and Logic Wire Preparation

Combicon plugs have 3, 6, 10, or 12 terminals (each terminal has an orange tab and a round hole for the wire). Press the orange tab with a small flatblade screwdriver (like a greenie) to open the wire latch. Insert the stripped wire into the round hole. Releasing the orange tab locks the wire into the plug. A slight tug on the wire will confirm it's properly locked into the plug.

Wiring diagrams for each size of Combicon plug are on the Oasis Console Quick Guide (customer doc 71-1500-1), which is included with the console.



Wiring a Combicon Plug



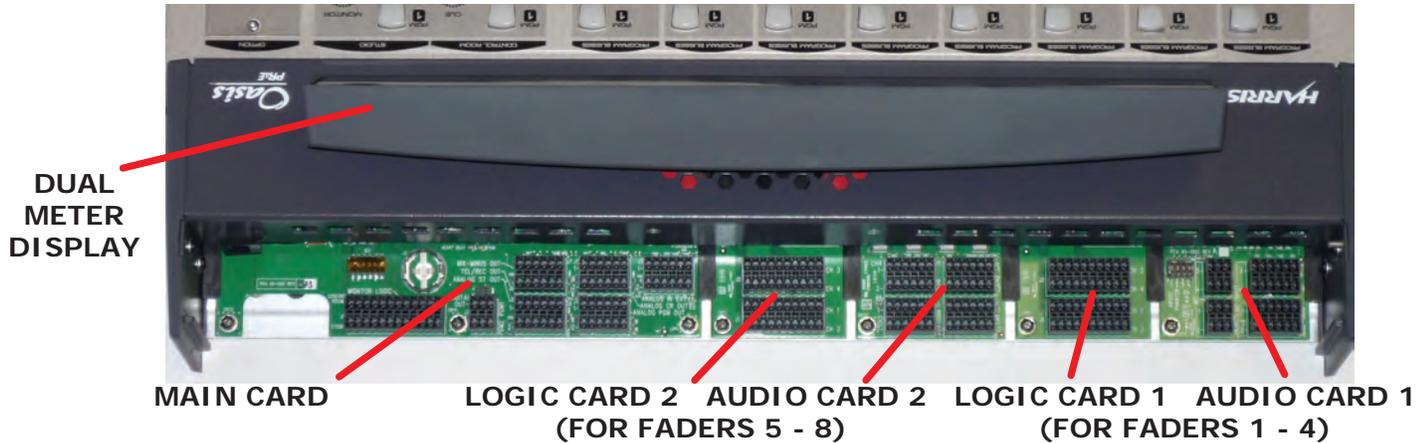
Terminal Numbering

- 3-terminal: Mic / AES Signals
- 6-terminal: Analog Signals
- 10-terminal: Channel Logic
- 12-terminal: CR / STU Logic

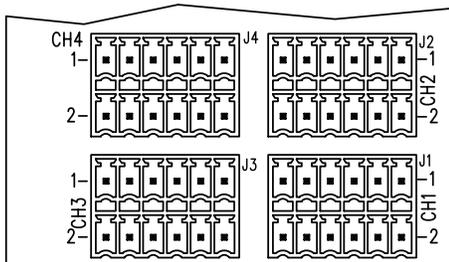
CAUTION! ALL OASIS OUTPUTS ARE ACTIVE. DO NOT CONNECT ANY HIGH (+) OR LOW (-) OUTPUT TO GROUND. USE ONLY HIGH (+) AND SHIELD TO CONNECT TO UNBALANCED DEVICES. LEAVE LOW (-) UNCONNECTED.

4 Plug in the Wiring

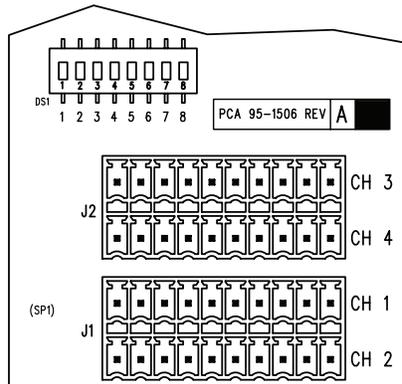
Plug the pre-wired Combicon plugs into the appropriate connectors on the console. The right-most card (as viewed from the rear) is a Mic Preamp card for channel faders 1 - 4. It has four microphone inputs and four stereo line inputs. The other audio card (or two audio cards for a 12-channel console) have two stereo Line Inputs for every channel fader. In between the audio cards are Logic I-O cards, with one Logic connector per channel fader. The Main card has the Program bus outputs (both analog and digital), the Telco connectors, the External Monitor inputs, and the Control Room and Studio connectors (monitor outputs and logic I-O).



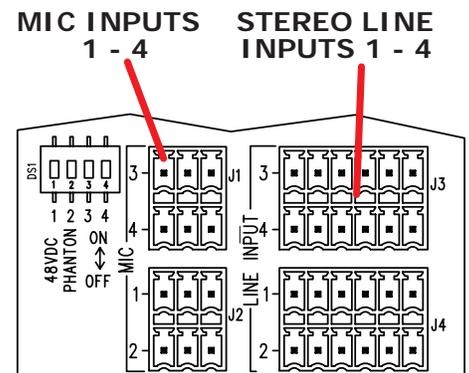
1 and 2 are stereo line-level inputs for four fader channels (either 5 - 8 or 9 - 12)



ANALOG CARD
(four Channel Faders: 5 - 8 & 9 - 12)

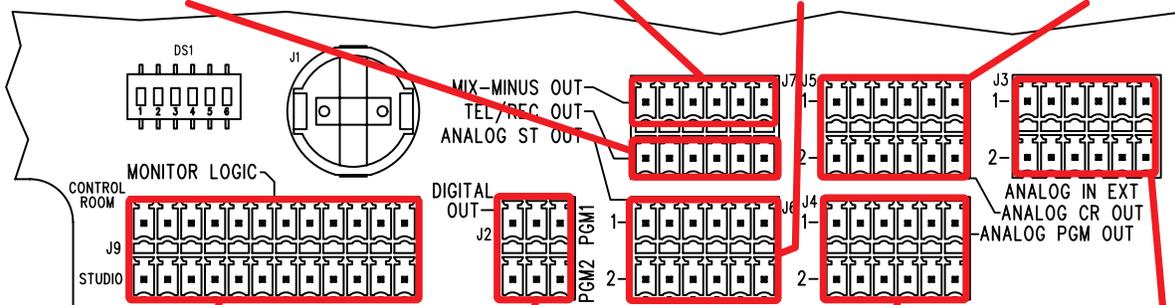


LOGIC I/O CARD
(four Channel Faders: 1 - 4; 5 - 8; & 9 - 12)



MIC PREAMP CARD
(on Channel faders 1 - 4)

Telco Record Output (analog output) Telco Mix-Minus Outputs (two mono analog outputs) Studio Monitors (two analog outputs) Control Room Monitors (two analog outputs)



Room Logic I-O (Control Room and Studio) **PGM 1 and 2 (AES digital outputs)** **PGM 1 and 2 (analog outputs)** **External Monitors (two analog inputs)**

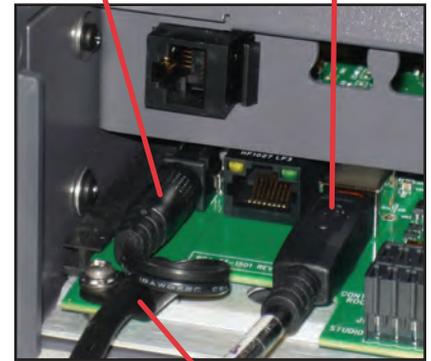
MAIN CARD CONNECTORS

5 Power up the console

The Oasis uses an in-line power supply suitable for AC mains from 100 - 240 VAC, 50/60 Hz AC. The supply outputs 12 VDC. The DC output cord plugs into a mating connector on the Oasis Main card. A cable clamp is supplied for this cord. It is fastened to the Main card mounting screw directly in front of the power connector. Remove the screw and cable clamp using a #1 Phillips screwdriver. Place the cord through the clamp, then refasten the clamp to strain relief the DC cord, as shown in the photo.

Since the Oasis console is designed for 24 / 7 operation, there is no power switch. For proper operation, keep the DC cord plugged into the Main card connector at all times. To power the console down, only unplug the AC cord from the AC mains outlet.

DC Cord (from Supply) USB Cable (from PC)



DC cord held captive by the cable clamp

6 Customize console settings using the OCC App

The Oasis console is pre-configured, so many installations may not need to use the Oasis Control Center (the OCC app) to change the console's default configuration settings. These settings are listed on the back side of the Console Quick Guide (customer doc 71-1500-1). The default settings are changed by using the OCC app (see page 1 of this document for information on the GatesAir website where the software can be downloaded). The OCC app is typically installed on a laptop running Win XP Pro (SP3) or Win 7/8/10 Pro (32- or 64-bit). A USB Host cable (not supplied) is used to connect the PC to the USB host port on the Oasis Main card, as shown in the photo above.

With the USB cable connected from the console to the laptop, start the OCC app. It opens to the Oasis Information screen which shows the console's serial number, and a "Connected" message at the bottom, that indicates the USB connection is good. Click on the Tabs along the top (Inputs 1 - 4, Inputs 5 - 8, Inputs 9 -12, and Utilities) to show the various configuration settings available.

Pointing the mouse at any setting will pop-up a Tool-Tip to describe that setting's function. Parameter setting changes are sent in real-time to the console so you can instantly verify that the settings are correct.



Oasis Control Center, Information Tab

The next page presents an overview of using the OCC app's configuration settings. Refer to the Oasis App Quick Guide (customer doc 71-2013) or to the Oasis User Manual (customer doc 75-58), Console Setup section, for additional details on using the OCC app to configure your Oasis console.

