

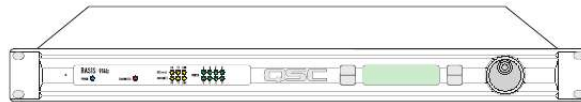


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You can read the recommendations in the user guide, the technical guide or the installation guide for QSC AUDIO BASIS 914LZ. You'll find the answers to all your questions on the QSC AUDIO BASIS 914LZ in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual QSC AUDIO BASIS 914LZ**  
**User guide QSC AUDIO BASIS 914LZ**  
**Operating instructions QSC AUDIO BASIS 914LZ**  
**Instructions for use QSC AUDIO BASIS 914LZ**  
**Instruction manual QSC AUDIO BASIS 914LZ**

**QSC**  
**BASIS 914Lz**  
4X16 CobraNet Enabled Control and Monitoring Signal Processor  
Hardware Manual



T0-930293-03 rev.B

**CobraNet**



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**Manual abstract:**

All mission-critical elements of the BASIS-driven sound system are monitored. User-selected events are logged and loudspeaker protection features unique to BASIS such as QSC's power limiter are made possible through the DataPort functionality. A standard Windows computer is the principle user-interface for controlling the overall BASIS/QSCControl system. However, the BASIS 914LZ also offers a front panel interface for accessing a few critical functions. A single QSCControl.net server computer can support several clients running QSC's latest Venue Manager software. Thus, the sound system can be operated via several computers, roaming wireless laptops, tablets, etc., all at the same time, from anywhere a connection to the QSCControl.net network is available. The QSCControl.

net network can also be managed from a single computer running both the client and the server. Once all BASIS devices in a system are configured, a computer is no longer required on that system's network. All basic functions of the BASIS 914LZ continue to operate with or without a control computer connected to the network. The configurable DSP engine provides all of the functions necessary to handle the amp/loudspeaker portion of a signal chain, such as very flexible and precise crossovers, delays, equalization, compression/limiting, etc. Audio enters a BASIS 914LZ either through analog XLR/TRS combo inputs (line level) or from CobraNet source devices such as QSC's line of RAVE digital audio routers.

Any combination of 16 CobraNet channels (selected from up to 4 bundles of 32 channels) can be routed into the 24 x 24 DSP engine. Any or all of the 24 DSP channels can also be routed to up to 32 CobraNet channels on the network. Unlike other configurable DSP boxes, the intrinsic processing latency of the BASIS 914LZ is both short and fixed at 1- Power indicator 2- Diagnostic indicator 3- Network status indicators 4- Port connection status indicators 5- Multi-function push buttons 6- Display 7- Rotary select/accept knob 8- Safe mode switch (recessed) 9- DataPorts 10- XLR/TRS combo inputs (line level) 11- Omni inputs 12- RS-232 port 13- Network status indicators 14- QSCControl 10BaseT receptacle 15- CobraNet 100BaseT receptacle 16- IEC power inlet See page 14 for detailed descriptions. 3 Introduction (continued) 0.396 milliseconds.

When analog input and analog outputs are used, the total delay is 2.354 milliseconds. The delay does not change regardless of the DSP configuration, unless the configuration intentionally adds more delay. The BASIS 914LZ also supports the new optional low-latency CobraNet feature that provides transport at only 2.66 milliseconds delay. Thus the delay from analog to analog across the network can be less than 6 milliseconds, fast enough not only for large audio distribution but for the most critical real-time live performance work. Both software and firmware can be easily updated over the network. In the future, QSC will be adding new capabilities to both BASIS and QSCControl.net. Our latest code releases and access to up-to-date information on BASIS and QSCControl.

net are available at [www.qscontrol.net](http://www.qscontrol.net). We invite you to visit us there. We've applied our many years of experience in supporting high-end installed sound with our previous system-building products such as RAVE, QSCControl, CM16a, DSP-3, DSP-4, and DSP-30. The BASIS 914LZ brings all that technology together in one compact, powerful, easy to use system. We are confident that your new BASIS 914LZ will provide years of dependable service and we hope it will help you, the system designer and implementer, to express your creative audio system ideas. Block Diagram 4 Introduction - Networking the BASIS 914LZ The BASIS 914LZ has two RJ-45 network connection ports on the rear panel. One port is labeled "QSCControl" and supports standard 10BASE-T Ethernet. The other port is labeled "CobraNet" and supports 100BASE-TX, also known as "Fast Ethernet".

In the following sections we describe the use of these ports and show example network connection schemes. The BASIS 914LZ supports two distinct kinds of network activity; the first is audio transport via CobraNet, and the second is control and monitoring via QSCControl.net..



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