



**PUNQTUM**  
► BY RIEDEL

USER MANUAL

# Q-Tool System Configuration Software

Q-Series Network Based Intercom System

This manual is applicable for the Software Version: 2.2

© 2024 Riedel Communications GmbH & Co. KG. All rights reserved. Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of Riedel. Every effort has been made to ensure that the information in this manual is accurate. Riedel is not responsible for printing or clerical errors. All trademarks are the property of their respective owners.

<b>1</b>	<b>PREFACE .....</b>	<b>4</b>
1.1	INFORMATION.....	5
<b>2</b>	<b>ABOUT PUNQTUM Q-SERIES DIGITAL PARTYLINE INTERCOM SYSTEM .....</b>	<b>6</b>
<b>3</b>	<b>SOFTWARE INSTALLATION.....</b>	<b>7</b>
3.1	Q-HUB .....	7
3.2	Q-TOOL.....	7
<b>4</b>	<b>Q-HUB .....</b>	<b>7</b>
4.1	NEWS TAB .....	7
4.2	APPS TAB.....	8
4.3	FIRMWARE TAB.....	8
<b>5</b>	<b>Q-TOOL .....</b>	<b>9</b>
5.1	BASIC WORKFLOW SETTING UP A NEW PUNQTUM INTERCOM SYSTEM .....	9
5.1.1	<i>Define your system settings:</i> .....	9
5.1.2	<i>Add devices to your system.</i> .....	9
5.2	HELP USING Q-TOOL .....	12
5.3	SUPPORT REQUEST .....	14

# 1 Preface

Welcome to the punQtum digital intercom family!

This document provides detailed information about the punQtum Q-Series digital partyline system and configuration options.

## NOTICE

This manual, as well as the software and any examples contained herein are provided “as is” and are subject to change without notice. The content of this manual is for informational purposes only and should not be construed as a commitment by Riedel Communications GmbH & Co. KG. or its suppliers. Riedel Communications GmbH & Co. KG. gives no warranty of any kind with regard to this manual or the software, including, but not limited to, the implied warranties of marketability or fitness for a particular purpose. Riedel Communications GmbH & Co. KG. shall not be liable for any errors, inaccuracies or for incidental or consequential damages in connection with the furnishing, performance or use of this manual, the software or the examples herein. Riedel Communications GmbH & Co. KG. reserves all patent, proprietary design, title and intellectual property rights contained herein, including, but not limited to, any images, text, photographs incorporated in the manual or software.

All title and intellectual property rights in and to the content that is accessed through use of the products is the property of the respective owner and is protected by applicable copyright or other intellectual property laws and treaties.


© 2024 Riedel Communications GmbH & Co. KG. All rights reserved. Under the copyright laws, this manual may not be copied, in whole or in part, without the written consent of Riedel.


All trademarks are the property of their respective owner.

## 1.1 Information

### Symbols

The following tables are used to indicate hazards and provide cautionary information in relation to the handling and use of the equipment.

	This text indicates a situation that needs your close attention. It may also be used to alert against unsafe practices.
---	---

	This text is for general information. It indicates the activity for ease of work or for better understanding.
---	---

## 2 About punQtum Q-Series Digital Partyline Intercom System

punQtum Q-Series digital partyline intercom system is a digital, easy to use, full-duplex communications solution for theater and broadcast applications as well as for all kinds of cultural events like concerts, etc.

It is an all-new, network-based partyline intercom system which combines all standard partyline system features including wireless access and more with the advantages of modern IP networks. punQtum Q-Series works on standard network infrastructure and is easy to install and set up. The system works “out of the box” with a factory default configuration but can be quickly configured by user-friendly software to meet individual needs.

The system is completely decentralized. There is no master station or any other central point of intelligence in the whole system. All processing is handled locally in each device except for the punQtum wireless Apps which require a punQtum Q210 PW Speaker Station to serve as a bridge to the Q-Series digital partyline intercom system. The capacity of one partyline intercom system is set to a maximum of 32 channels, 4 program inputs, up to 4 public announce outputs and 32 control outputs. Each punQtum Q210 PW Speaker Station serves up to 4 punQtum Wireless App connections.

punQtum Q-Series digital partyline systems are based on Roles and I/O settings to ease the use and administration of partyline intercom systems.

A Role is a template for the channel configuration of a device. This allows channel settings and alternate functions to be predefined for different Roles needed to run a live show. As an example, think of the stage manager, sound, light, wardrobe and security personnel having different communication channels available to deliver a perfect job.

An I/O setting is a template for the settings of the equipment connected to a device. This, for example, allows I/O settings to be available for different Headsets being used at a venue to cover for different environmental situations.

Each device can be configured to any Role and I/O setting available.

Multiple punQtum partyline intercom systems can share the same network infrastructure. This allows for the creation of production islands within a campus using the same IT network infrastructure. The number of devices (Beltpacks/Speaker Stations and Wireless Apps) is theoretically infinite but limited by the network capacity. Beltpacks are powered by PoE, either from a PoE switch or from a Speaker Station. They can be daisy-chained to reduce wiring efforts on site.

Beltpacks and Wireless Apps support simultaneous use of 2 channels with separate TALK and CALL buttons as well as one rotary encoder for each channel. An alternate page button allows the user to quickly reach alternate functions such as public announce, Talk To All, Talk To Many, to control general purpose outputs and access system functions like Mic Kill asf. The Beltpack is designed with a combination of premium materials, including high-impact plastics and rubber to make it both tough and comfortable to use in any situation.

punQtum Q-Series Beltpacks, Wireless Apps and Speaker Stations allow users to replay missed or not understood messages. Program input signals can be fed into the system using an analog audio input at any Speaker Station.

Sunlight readable, dimmable RGB color displays used for Beltpacks and Speaker Stations make for excellent readability of the intuitive user interface.

## 3 Software Installation

- Q-Tool is available for download for MacOS Big Sur, Ventura, Sonoma and Windows 10 and 11. Running Q-Tool on older operating system versions may work but is not supported.
- Get your copy of Q-Tool from our website: <https://punqtum.com/q-tool/> and run the installer. 2 parts will be installed:

### 3.1 Q-Hub

Q-Hub is your source of news, updates for Q-Tool and new Firmware for all Q-Series devices. Q-Hub runs in the background and downloads news and updates to your device as soon as they become available. This enables you to update your Q-Series Intercom System even if you are offline or have no connection to the internet otherwise.

You can access Q-Hub from the menu bar of your Mac or from the taskbar of Windows.

### 3.2 Q-Tool

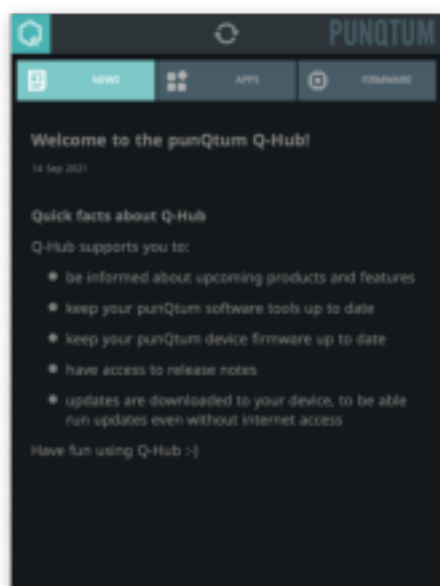
Q-Tool is the configuration Software for your Q-Series Intercom System and allows for configuration and management of your Q-Series Intercom Systems.

## 4 Q-Hub

Q-Hub is your source of news, updates and firmware for all Q-Series devices and tools. Operation is simple and straightforward:

### 4.1 News Tab

- Q-Hub contains a news channel covering Q-Series Intercom System upcoming features and products.



## 4.2 Apps Tab

The apps tab provides the following options:

- Start Q-Tool out of Q-Hub.
- Update Q-Tool out of Q-Hub if a new version is available.
- Review release notes of Q-Tool versions.



## 4.3 Firmware Tab

- Q-Hub makes device firmware updates available to Q-Tool. Review release notes here.





## 5 Q-Tool

### 5.1 Basic workflow setting up a new punQtum Intercom System

Open a new (blank) system configuration or save the factory default configuration under a new name as a starting point.

The name of the system configuration you work on is displayed in the title bar of the Q-Tool window.



Depending on your selections, the options offered in the workflow depend on your choices made previously. Thus, you will not see configuration options for features you do not plan to use

#### 5.1.1 Define your system settings:

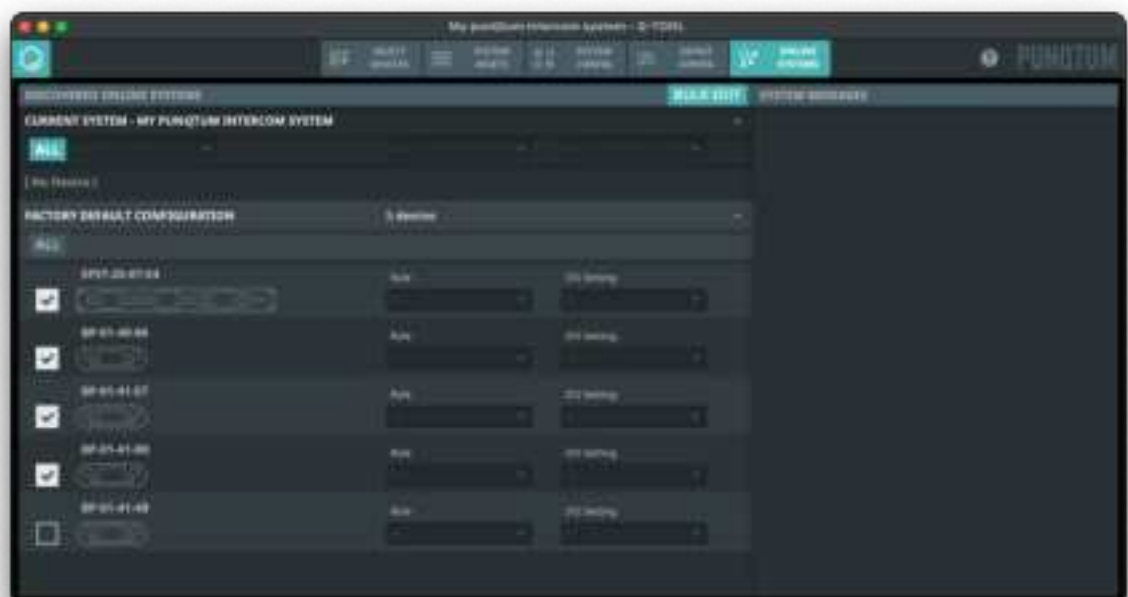
The following operations can be done without having devices connected to your network! Work your way through the tabs from left to right:

1. Select the devices and their features to be used in your System (not shown if you use Q110 Beltpacks only)
2. Choose and name assets to be used in your system
3. Configure your system assets
4. Add and define roles and I/O settings for the devices in use

#### 5.1.2 Add devices to your system

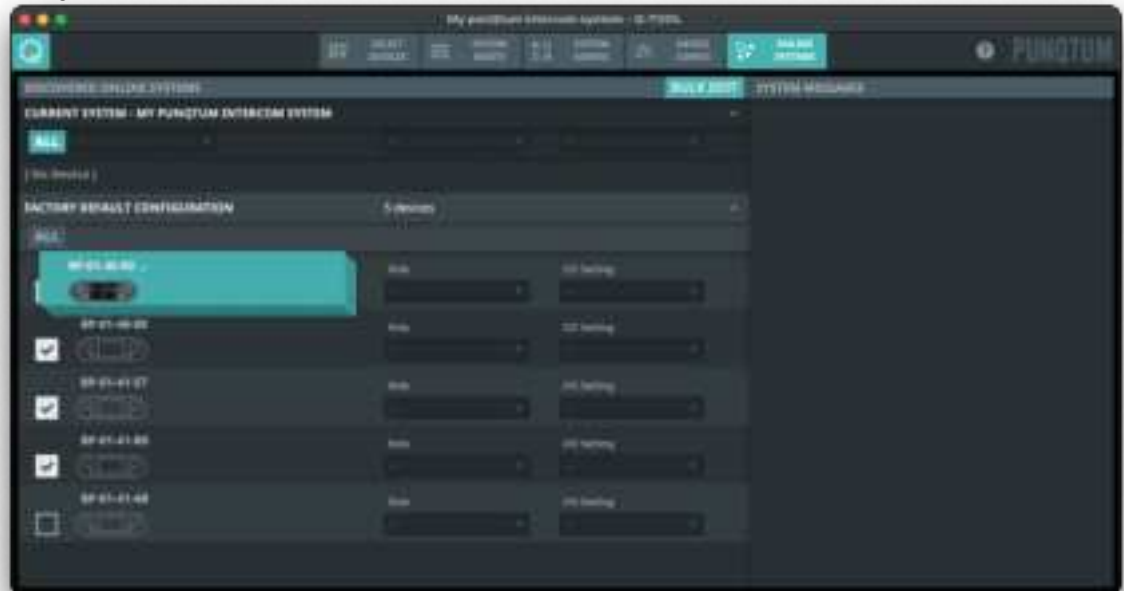
This step requires Q-Tool to be connected to the same network you operate your punQtum devices in.

1. Change to the 'Online Systems' tab to see your connected devices
2. Select the devices you want to move using bulk edit mode. Single devices are moved the same way without using bulk mode.

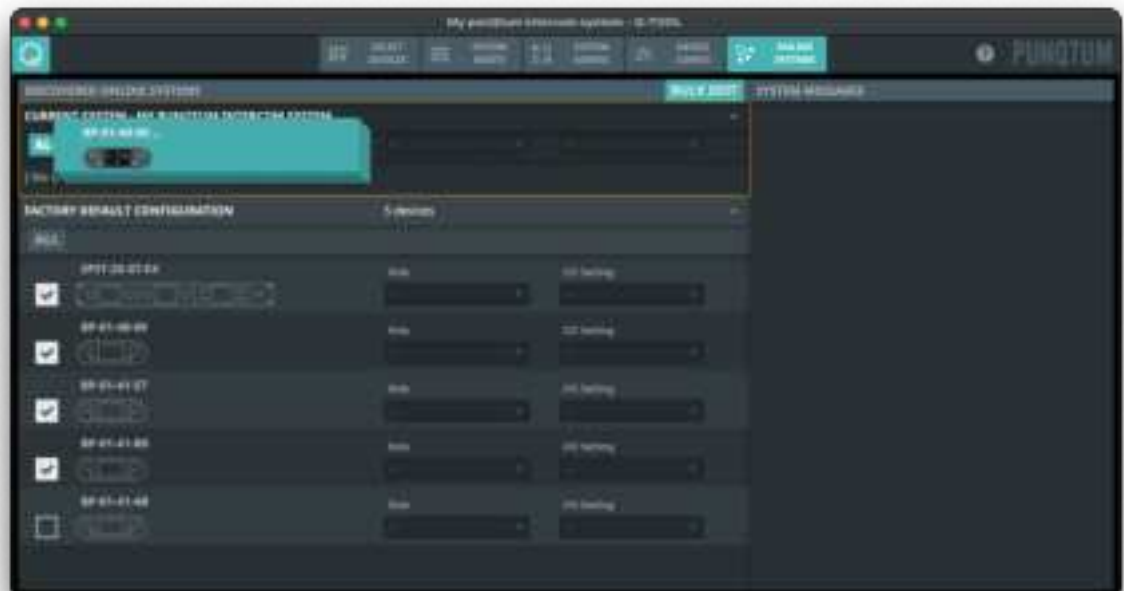


3. Drag and drop the devices you want to use in your system into the current system section in the 'online systems' tab:

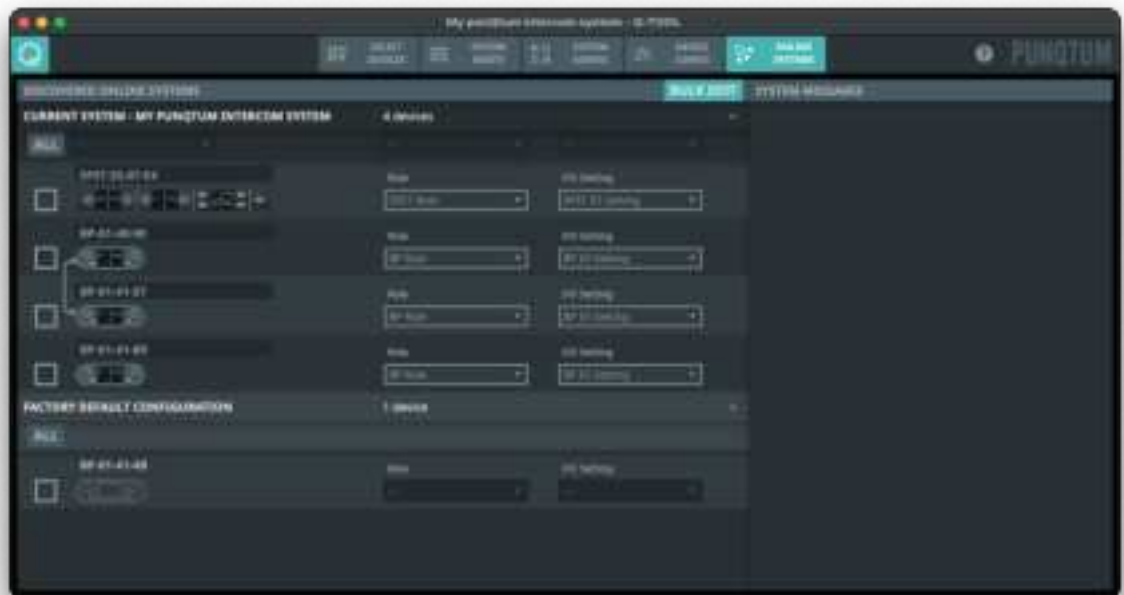
Drag:



Drop:



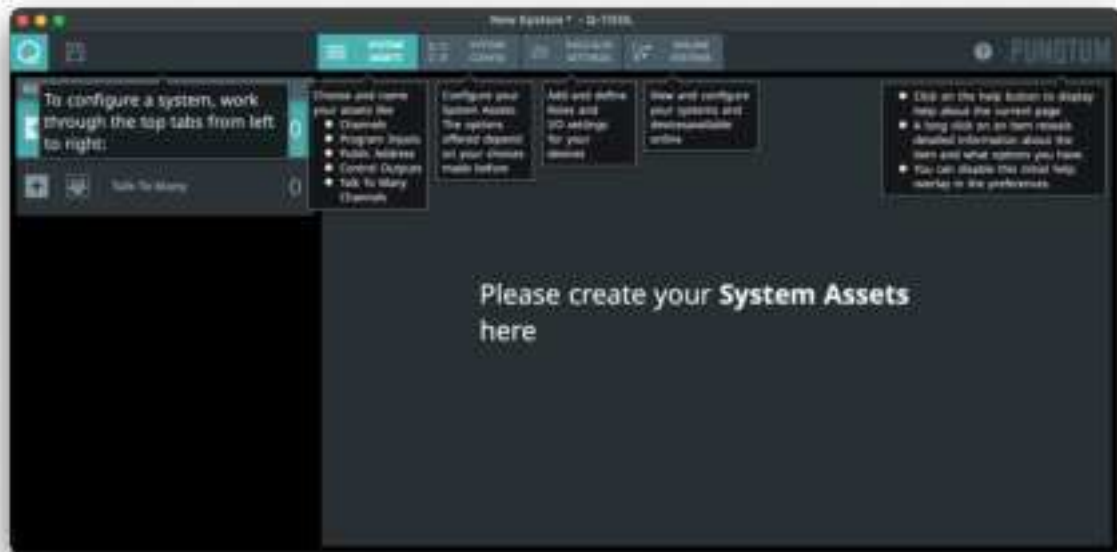
4. Result:




## 5.2 Help using Q-Tool

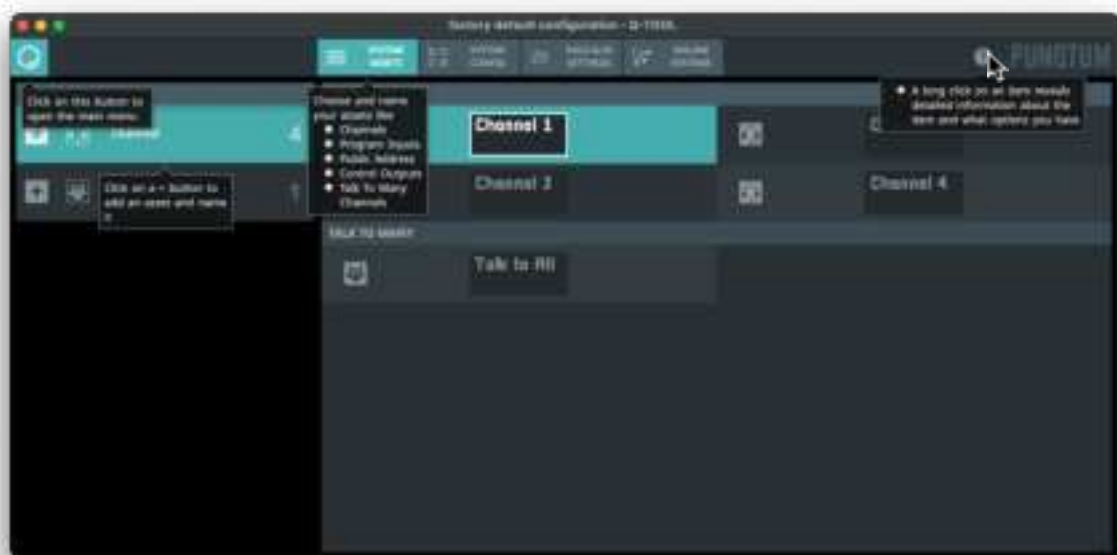
Q-Tool help system is fully integrated into Q-Tool to help you work efficiently and have your questions answered in the context:

When you open Q-Tool, you get to see an initial help overlay which gives you hints about the basic workflow. Once familiar with the use of Q-Tool, you can disable this initial help overlay in the preferences.

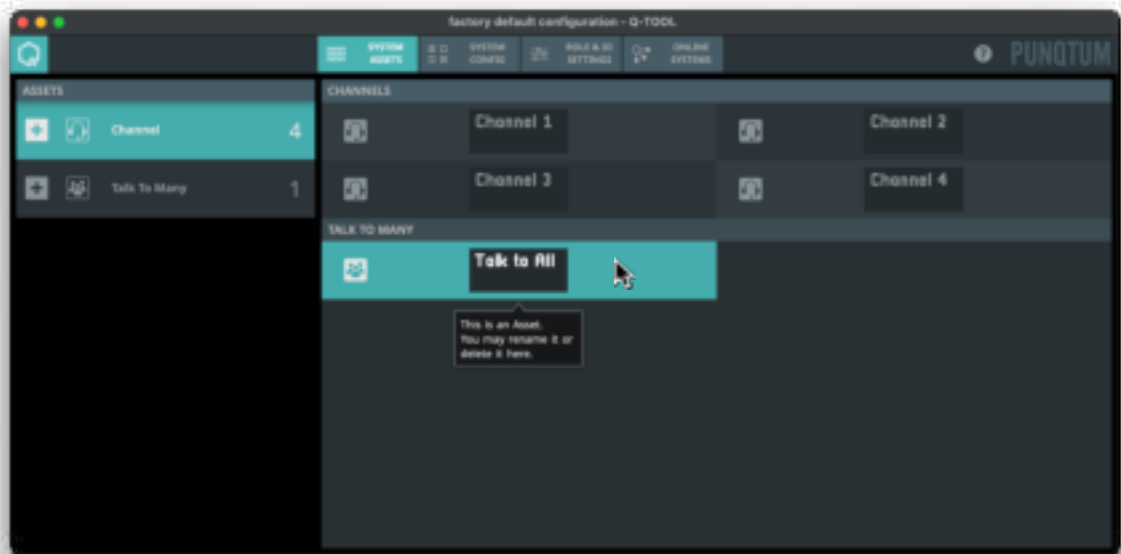


When working with Q-Tool, you can rely on 2 sources of information:

- Each page reveals a help overlay with context help information on the workflow by clicking the  icon.



- Items on a page reveal detailed information on a **long click on the item itself**.



## 5.3 Support request

If you experience trouble with your system setup, start a technical support request.

- Click 'SUPPORT REQUEST' in the main menu of Q-Tool.



- Save the .zip file to a location of your choice and send the saved .zip file together with a description of your problem to: [support@punqtum.com](mailto:support@punqtum.com)

