



## GET MORE SIMPLICITY, FLEXIBILITY AND INNOVATION, SO YOU CAN GET MORE OUT OF YOUR COMMUNICATION.

KP-Series keypanels deliver superior digital audio using the Bosch-developed OMNEO which includes Audinate's Dante audio over IP technology, via either copper or fiber. The KP-Series provides high-quality audio, free of noise, delay and other artifacts present in older technology. The family includes a rich set of connectors as standard, including GPIO and RC. As with other RTS products, emphasis has been placed on backward compatibility with previous generations of matrices including analog technology.

KP-Series keypanels utilize the latest generation of wide angle TFT displays, providing superior clarity, resolution and longer display life, along with high-quality readability under a variety of lighting conditions.

The RTS OMNEO suit now fully supports Open Control Architecture (OCA) also known as AES70. RTS offers different firmware versions making it possible to load either OMNEO or RVON (RTS Voice over Network) protocol.

The power consumption of the KP-Series keypanels is reduced to almost fifty percent compared to previous keypanels, making them the most environmentally friendly keypanels of RTS.

### Easy Operation

Out with the old and in with the more intuitive. The new design and an enhanced user interface enable easier understanding and improved operation. The software provides simple and intuitive navigation of menus, with the most commonly used features easily accessible and compatible with standard IT infrastructure.

### FULL IP CONNECTIVITY PROVIDING ROUTABILITY AND COMPATIBILITY.

## OMNEO OPEN MEDIA NETWORKING STANDARD.

### Ultimate Flexibility

The new KP-Series is future-proof and so is your communication. The unparalleled flexibility features automatic hardware recognition plus the open source technology of OMNEO, so you get full backward compatibility and easy scalability.

### Superior Audio

Get high-quality audio transmission every time. The new keypanel family features two echo cancellation modes, plus quick AD/DA conversion – ensuring ultra-low latency and reducing noise, echo, delay and other malfunctions found in older technologies.

### ADVANCED SIGNAL PROCESSING AND AD/DA.

## USER-FRIENDLY, HIGH-RES COLOR DISPLAY.

### High-Quality Design

Get high quality, inside and out. The new KP-Series keypanels feature a unified design, including color, contrast, resolution and viewing angle for complete communication harmony. Plus, multiple controls through ergonomically-designed levers.

### High-Performance

High-performance Audio and Control Software Packages for KP-5032 and KP-4016 keypanel models including the DKP-4016 desktop keypanel. Designed for more demanding requirements creating customized audio/control functionality that meets the most challenging requirements.

## AUDIO & CONTROL SOFTWARE PACKAGES.

## CONNECT WITH OMNEO.

**OMNEO is based on two key technologies – the media transmission component Dante from Audinate Pty, Australia and the system-control component OCA (Open Control Architecture) – and is enhanced with additional Bosch specific features. OMNEO provides highest interoperability, flexibility, reliability and future-proof technology by utilizing open public standards.**

OMNEO offers ultra-low-latency, studio-quality audio transmission and full system control on standard IP networks of all sizes, from a

single building to transcontinental. OMNEO-equipped RTS products are backwards-compatible with existing RTS hardware, giving users the ability to grow into IP intercom incrementally. In contrast to traditional IP-based audio protocols, OMNEO is unique in providing ultra-low network audio latency, fully synchronized studio-quality multi-channel audio as well as full, standards-based device configuration and control data over existing IP networks and standard Ethernet hardware, making it extremely cost effective and easy to install.

By utilizing a standard IP Ethernet infrastructure, OMNEO-equipped products can be assembled into networks of 2 to 10,000 cooperating devices – all sharing a common control system. OMNEO is TCP/IP layer 3 compliant. This allows logical addressing and data routing even in large networks.



### PLUG INTO POWER

Discover more about the new KP-Series keypanels with OMNEO on board. [www.rtsintercoms.com/kp-series](http://www.rtsintercoms.com/kp-series)

# ONE CABLE. UNLIMITED POSSIBILITIES.

## MEET THE NEW KP-SERIES INTERCOM KEYPANELS WITH OMNEO IP TECHNOLOGY ON BOARD.

# UNIFIED DESIGN. UNIFIED AUDIO. UNIFIED CONTROL.

## THE NEW KP-SERIES INTERCOM KEYPANELS



### KP-5032

32-Position HD Color Display  
Keypanel, 2 RU



### KP-4016

16-Position HD Color Display  
Keypanel, 1 RU



### EKP-4016

16-Position HD Color Display  
Expansion Keypanel, 1 RU

Connect up to 6 (KP-5032) or up  
to 7 (KP-4016) expansion panels  
for a maximum of 128 keys.



### DKP-4016

16-Position HD Color Display  
Desktop/Wall-Mount Keypanel



Three new KP-Series keypanel models complement the KP-Series keypanels family in the entry level segment. Depending on the intercom environment, these products can be connected to both digital (KP-3016 only) and analog RTS matrices and utilized as entry-level keypanels while still offering the same intuitive, easy handling features. They can also be quickly installed in applications with predefined requirements where the comprehensive connectivity options of the existing KP-series models are not needed, but with the same consistent industrial design, hardware and software platform and high-quality audio performance.



### KP-3016

one rack unit keypanel, 16 operation  
keys with analog and IP (OMNEO/  
DANTE or RVON) matrix interface



### KP-3016A

one rack unit keypanel, 16 operation  
keys with analog matrix interface only



### EKP-3016

one rack unit expansion keypanel,  
16 operation keys for KP-3016 and  
KP-3016A

## KEY FEATURES

- Each keypanel features full-color HD displays offering well-balanced color, contrast and resolution. The keypanels are capable of displaying English, Kanji, Cyrillic, and simplified Chinese characters.
- Intuitive, easy to learn operation with ergonomically designed listen/talk levers. All RTS keypanels have a consistent user interface and operation, which is intuitive and easy to learn.
- Superior sound quality with design assistance provided by the Electro-Voice speaker engineering R&D group.
- Backward compatible with existing RTS analog matrices and forward compatible with future-proof OMNEO IP architecture.
- OMNEO technology onboard. The KP-3016 incorporates OMNEO media networking without the need for additional cards or add-ons.

# BEST-IN-CLASS SOLUTIONS.

# KP-SERIES SOFTWARE PACKAGES.

RTS offers two software packages for its KP-Series keypanels, designed for high-tech users including large broadcasters and organizations with more demanding requirements for audio-visual performance and remote control. The audio and control software packages represent a completely new way to enhance the functionality and investment value of existing RTS hardware. Each software package can be installed on the KP-5032 and KP-4016 keypanel models, including the DKP-4016 desktop keypanel. A one-time-only fee means there are no recurring payments. Once installed, the two packages create customized audio/control functionality that meets the most challenging requirements.

## Control Software Package\*



Configuration upload/download:  
remotely configure any keypanel and edit/save  
keypanel configurations in AZ-Edit software



Real-time volume control via AZ-Edit software:  
ensures that users can always hear verbal instruc-  
tions, even if their volume is turned to zero



Supervisor mode (keypanel mirroring):  
remotely configure any keypanel, adjust volumes  
and other parameters in real-time on target panel  
from a supervisor panel



Downloadable screensaver:  
download a screen saver that is specific to  
you or your organization



Downloadable chimes:  
download a set of chimes that is specific to  
you or your organization

## Audio Software Package\*



Five-band equalizer:  
adjust volume level within five pre-defined  
frequency bands; users can fine-tune audio  
to their individual preferences



Voice messaging:  
leave messages for other users



Noise gate:  
adjust as required to reduce  
fatigue-causing line noise



Additional compression ratios:  
offer more flexibility. In noisy environments,  
audio quality can be improved by the amount  
of compression. This option adds additional  
compression ratios of 4, 5, and 6 to the  
standard 1:1, 2:1, and 3:1.



OMNEO AUX Input:  
The Audio Software Package also provides  
six OMNEO AUX inputs in addition to the two  
standard inputs, giving you more configuration  
options for your matrix environment.

## RVON Codec



RVON Codec:  
The tried-and-tested RVON (RTS Voice over Network)  
codec for VoIP (Voice over Internet Protocol) allows  
communication between users across long distances,  
with superior sound quality in comparison to compe-  
titive software solutions.

KP-Series users may now connect to matrices equipped  
with a suitable RVON interface, such as the RVON-16 for  
ADAM/ADAM-M or RVON-C for Cronus matrices. RVON  
uses the G.711 narrowband audio protocol, providing toll-  
quality audio at 64 kbit/s.

\*The Audio and Control Software Packages are optional and can be installed on all KP-5032, KP-4016 and DKP-4016 keypanel models.