

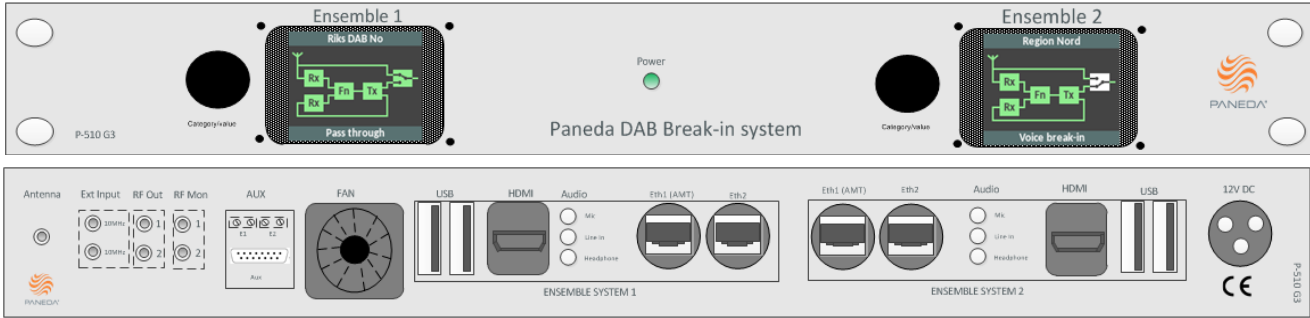


PANEDA®

Product
catalogue

Tunnel Equipment

PANEDA BREAK-IN SYSTEM-PBS



Description:

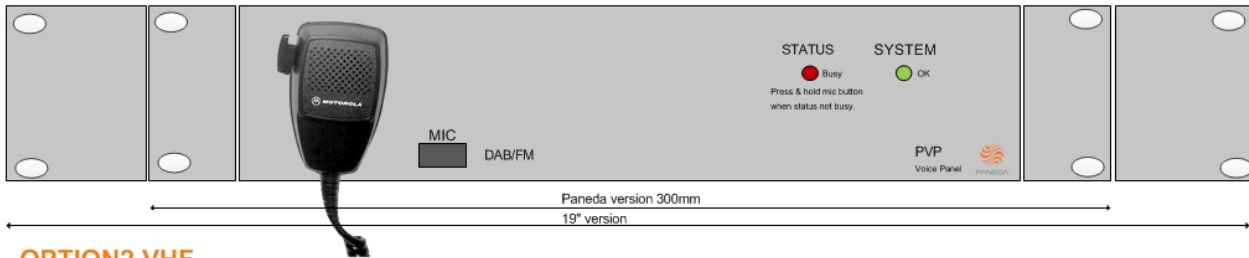
A complete dual ensemble break-in-system including RF transmitters. 1U size.

A system with no limitations, used in a great number of tunnels, making it to the most tested system on the market by far. The system contains two independent ensembles sharing the housing and setup interface. Front panel TFT display for status on scene monitoring. The system is built for both DAB/FM and can be equipped in several versions and options.

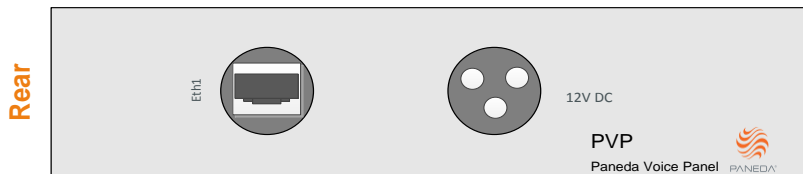
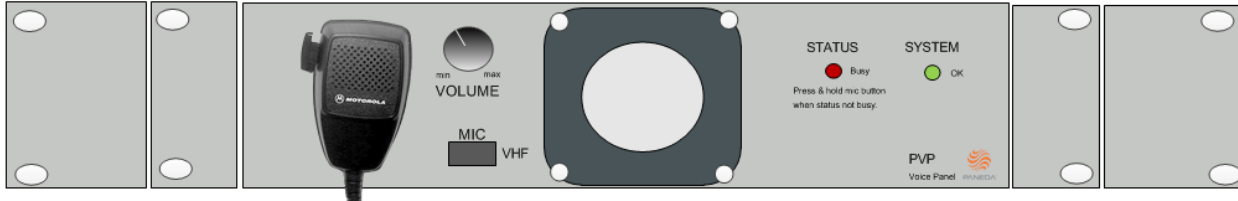
Product ID	Description
PBS	Paneda 1U Tunnel HW, 2 ensemble
PSU 220V	Power supply for 220V

PANEDA VOICE PANEL-PVP

OPTION1 DAB



OPTION2 VHF



Description:

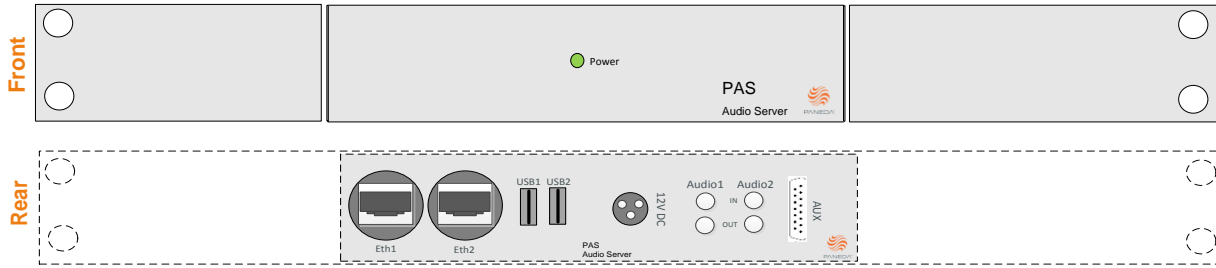
A complete standalone system for voice handling and emergency break in triggering.

The Paneda voice system contains two parts, microphone panels and a server part. The principle is using Push To Talk (PTT). The PTT triggers the break-in function and rescue/police staff speaks directly into the tunnel system while PTT is active. Audio from the panel is streamed over IP to the server part PAS, where the Audio OUT is connected to the break-in system. Two different panels available, DAB-FM and VHF (Tetra)

Product ID	Description
PVP-DABFM	Paneda Voice Panel DAB/FM panel complete unit
PVP-VHF	Paneda Voice Panel VHF (Tetra) panel complete unit
PSU220V	Power supply for 220V

Tunnel Equipment

PANEDA AUDIO SERVER-PAS



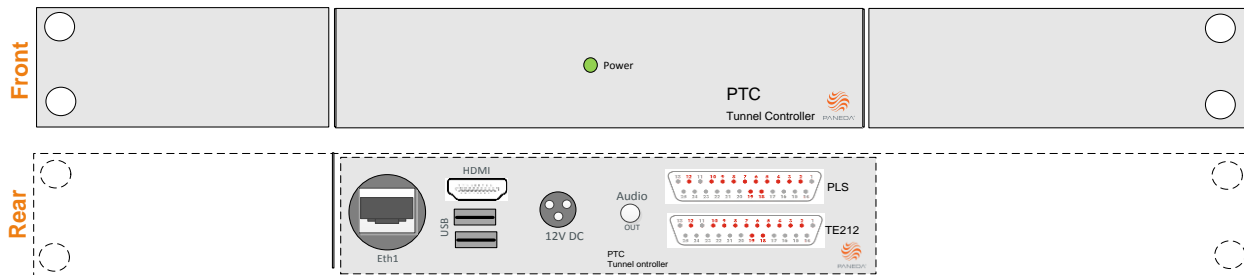
Description:

Audio routing system

The Paneda Audio Server, PAS act as an audio routing gateway/bridge for all kind of audio inputs and handles prerecorded jingles, phone-in systems, LIVE mic and more. The PAS also handles the audio from the mic panels. The audio bridge enables all kind of interfaces for setting up the tunnel system content with possibilities to specify in details how the audio will be handled in case of break-in, everything from remote phone-in with menu selection for recording new messages, trigger pre-recorded messages or directly using LIVE microphones. The PAS is a 1U compact hardware and can be co-mounted with other units in the Paneda range of products for saving rack space. The AUX port support custom defined logical inputs/outputs for triggering and status indications.

Product ID	Description
PAS	Paneda Audio Server, complete unit
PSU220V	Power supply for 220V

PANEDA TUNNEL CONTROLLER-PTC



Description:

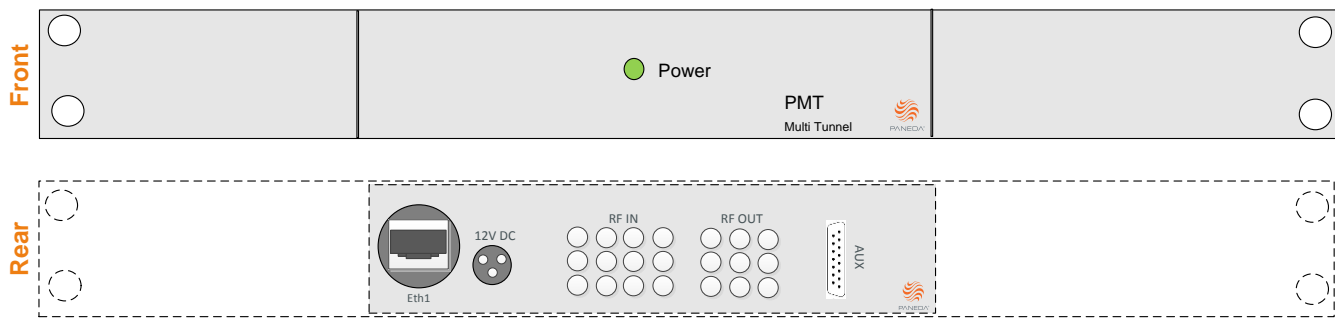
Tunnel Controller

The Paneda Tunnel Controller, PTC is a module for handling PLS inputs and outputs and the PTC also operates the status monitoring and remote supervision/management. The PTC is flexible and can be custom defined.

Product ID	Description
PTC	Paneda Tunnel Controller, complete unit
PSU220V	Power supply for 220V

Tunnel Equipment

PANEDA MULTI TUNNEL-PMT



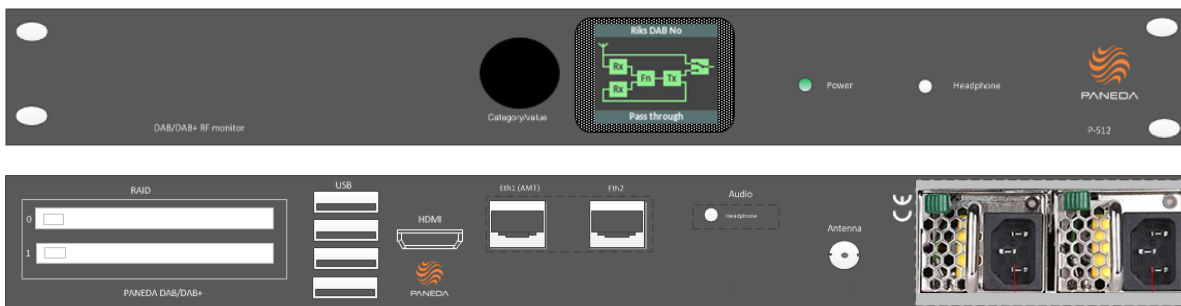
Description:

Multi Tunnel

The Paneda Multi Tunnel option enables individual and addressable break-in messages. This option is useful then having different directions inside the tunnel and/or separated lanes. The system is connected with the management system to enables single point of management and controlling.

Product ID	Description
PMT	Paneda Multi Tunnel Interface, complete unit
PSU220V	220V Power supply

MONITORING/RECORDING



Description:

RF Monitoring/Recording

The monitoring system is an useful option to a tunnel system where the RF signal are recorded and in real time it's possible to remotely connect and listen LIVE or from the recorded database. The recorder function records the DAB signals for 30days. The RF monitor supports up to 2 ensembles simultaneous.

Product ID	Description
PMON	Paneda Monitoring, complete unit
PMON-1E	Ensemble upgrade

Tunnel Equipment

PERIPHERALS



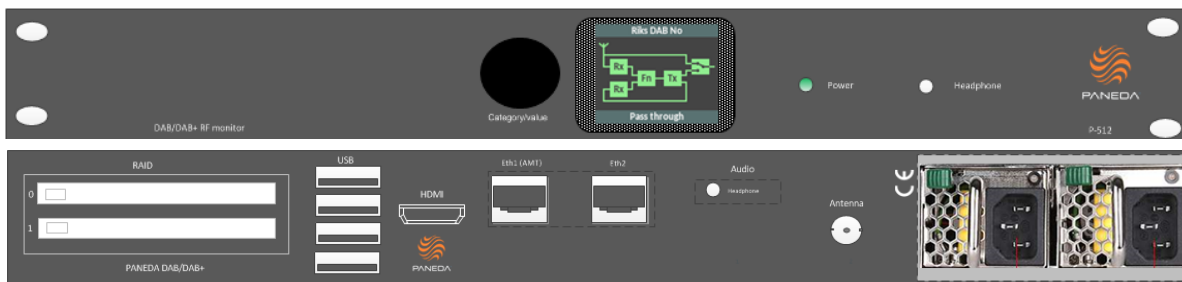
Description:

Amplifiers, Filters, Fiber-RF equipment

Paneda also offers complete systems including amplifiers for FM and DAB, Fiber optic solution for RF over fiber. The new RFOR is a complete system for all RF signals to be converted from and to fiber. Contact us for a complete list of products and solutions.

DAB Head-End equipment

DAB HEAD-END



Description:

A complete DAB/DAB+ Head-end system in generic hardware, 1U size.

The Paneda multiplexer, encoder, content and management system can use the very same hardware as a true “all-in-one” system, or if preferred the multiplexer and encoders in separate hardware. The new Paneda hardware can also be equipped with a low power transmitter, suitable for local radio small scale project, demo systems, testing purposes and more. The encoder support up to 16 channels in the very same hardware, add another hardware for 16 more channels. The hardware fulfill the highest requirement on the market including dual SSD drives in RAID1, hot swap, dual redundant network interfaces with AMT support, dual independent power supplies in hot swap mode and also front panel display with status monitoring.

HARDWARE

Product ID	Description
PHW1U	Paneda 1U generic broadcast HW
SSD	SSD kit w dual SSD drives in RAID1

SOFTWARE/OPTIONS

Product ID	Description
PMUX	Paneda DAB/FDAB+ Multiplexer
PENC	Encoder software DAB/DAB+ open source 1ch
PENCFH	Encoder software Fraunhofer codec license
PCOFDM	Built in COFDM Tx 100mW
AES/EBU	8ch AES/EBU sound card Digigram LoLa 1616SRC



PANEDA®

DAB Experts

Paneda develop and sells DAB technology for a various number of applications, such as emergency-break-in systems for tunnels, DAB RF logging/recording and also complete DAB multiplexers head-end systems.

Paneda has great experience of developing DAB related products and today contribute to be a world leader in the segment.

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