tecpro
by Canford

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Communications for the Theatre and Live Events Industries

Iss. 3 2014

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Whenever live events are staged, technicians and other participants need to communicate with each other...

A brief history

The Technical Projects range of intercom equipment was designed to allow two-way conversations to be held over a wired network between operators working in various positions around a venue. Canford acquired the designs in 1986 and re-named the system "Tecpro".

To ensure consistent build quality, we decided to manufacture in-house at our factories in Portland and Washington (UK).

Technicians recognised the benefits of the system's simplicity of operation and reliability. Soon, Tecpro established itself as the industry standard in the UK for theatre and live events.

Over time, events have become more complex requiring new technology and functionality. We launched Tecpro Series 2 products to address these new working methods, while also maintaining compatibility with the huge number of existing Tecpro products that are currently in use and are expected to remain in operation for many years to come.

Tecpro products are manufactured in the UK and spare parts are readily available.

What is a "two wire" intercom system?

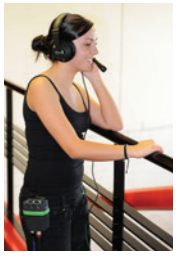
A "two wire" or as it is sometimes known "party line" or "ring" system enables a number of people to take part in the same conversation. Each participant can hear all other participants on the same circuit while being able to talk to them simultaneously, so a full "duplex" conversation can take place – similar to a telephone system.

Tecpro Communication System Designs

A basic Tecpro communication system would comprise a power supply and two or more outstations or beltpacks.
An outstation may be wall mounted, free-standing or rack mounted. It will usually have a built-in loudspeaker and possibly a microphone.

Beltpacks are intended for personal use and work only with a headset. Outstations and beltpacks connect together with two core screened microphone cable which carries system power, audio, and various control signals. Most have a 3-pin XLR input and output and can be simply daisy-chained together. Alternatively interconnection can radiate out from a central one-in, multiple-out signal splitter.

A combination of both methods is often used.



More complex systems may use a master station which has two in-built power supplies and offers two independent communication circuits, A and B. Participants in a conversation on circuit A cannot communicate with those on circuit B. However the person operating the master station can communicate with circuits A and B separately or together.

If being used for television programme making, Tecpro beltpacks may be programmed to constantly mute the microphone circuit. This is because the studio microphone will relay the sound of the presenter's voice to the control room, so the beltpack is only required to supply studio talkback to the presenter.

Examples of theatre and TV studio systems are shown on the inside back cover.

Beltpack Headset Outstations

BP511

BP523/BP525

Single Circuit BP511 and Dual Circuits BP523 & BP525

Tecpro Series 2 headset outstations (or beltpacks as they are commonly known) are tough, lightweight remote intercom stations typically hung from the belt but can be used freestanding or mounted on a suitable surface. They offer full duplex operation and have been designed for portable use.

Series 2 beltpacks retain the robustness and simplicity of previous Tecpro designs while extending their performance to meet current operational requirements. They are compatible with earlier designs of Tecpro equipment.

To reduce weight without compromising strength or hard-wearing properties, Series 2 beltpack cases are constructed from high impact ABS.

Three versions are available. The BP511 single circuit beltpack replaces the massively popular BP111 while the BP523 and BP525 beltpacks replace the six previous dual circuit models.

Dual circuit beltpacks offer simultaneous access to two separate intercom circuits. Monitoring is via a pluggable headset and each circuit has its own recessed volume control thumb wheel. Two 'Microphone Select' switches allow the operator to speak to either or both circuits. 'Mic Select' switches glow green when activated.

The BP511 single circuit beltpack retains both 'Mic Select' switches linked in parallel, pressing either switch will open or close the microphone circuit. Monitor volume is adjusted by a recessed thumb wheel.

To attract the attention of operators who have removed their beltpack and headset, a call alert signal is sent by pressing the red 'Call' button. This produces a combination of 20kHz tone and a DC signal to trigger the call lights on all user stations and outstations on a chosen circuit. DC call signalling has been retained for compatibility with previous Tecpro designs.

On Dual circuit beltpacks, when a call alert signal is received on circuit A, the 'Mic Select' button for circuit A and the 'Call' button flash brightly to attract attention. Circuit B operates in a similar manner. On single circuit beltpacks, both 'Mic Select' switches flash when a call alert signal is received. For increased visibility, Series 2 beltpacks have a mimic LED on their base so the call alert may be seen from most angles. A 'Call' send/receive confidence tone is also heard in the headset. This tone may be muted by pressing a combination of buttons on the beltpack.

An optional vibration motor (as used in mobile phones) is available which triggers when a call alert signal is received. This function can be switched off by pressing a combination of buttons on the beltpack.

The brightly illuminated 'Mic Select' and 'Call' switches are highly visible even in well lit areas. For blackout conditions with an audience present, a low light mode may be selected which dims the green mic buttons and prevents the call light from flashing. This is initiated by pressing a combination of buttons on the beltpack.

All Series 2 beltpacks can send and receive 'Remote Mic Kill' signals. This mode is useful for keeping unnecessary noise and chatter to a minimum so important commands are not missed. On receipt of a 24kHz tone on circuit A or B, the beltpack will respond by switching off the corresponding microphone if it is active. To enable 'Remote Mic Kill', a combination of buttons must be pressed on the beltpack. First generation beltpacks use mechanical 'Mic select' switches so are unable to respond to the mic kill tone.

When talk back from an operator is not required, one or both microphone circuits can be disabled by pressing a combination of buttons on the beltpack.

The three new beltpack variants are fitted with different XLR combinations. The BP511 single circuit beltpack is fitted with male and female XLR3 connectors in parallel so beltpacks may be easily daisy-chained together to form a temporary intercom circuit.

The BP525 dual circuit beltpack uses male and female XLR5 connectors in parallel so beltpacks may be easily daisy-chained together to form a temporary intercom circuit using dedicated 5pin XLR cables.

The BP523 dual circuit beltpack uses two separate female input XLR3 connectors – one for each circuit. Space restrictions dictate there is no loop through facility available on this beltpack.

While commonly referred to as 'Beltpacks', Series 2 headset outstations are now more versatile. A 'mushroom' shaped extrusion on the rear of the case is designed to mate with a swivel belt clip (supplied) and a wide range of other options including the 'hip drop clip', 'sash band clip' and 'no belt' waistband clip.

Other options are under development.

Headsets

Headset SMH210

Single muff, heavy duty closed-cup type with a fixed, flexible, moulded boom-arm, housing a noise cancelling dynamic mic.

Very robust construction, terminated with an XLR 4-pin connector.

The SMH210 headset is suitable for use with the BP511, BP523 and BP525 beltpacks and offers a wide, smooth response for reduced listening fatigue.

Suitable for use with Series 1 and Series 2 products.

SPECIFICATION:

Earpcup: 400ohm Impedance at 1kHz

Frequency response: 20-20,000Hz

Sensitivity: 94dB s.p.l. for 1mW

Distortion: Less than 0.5%

Max. rated power handling: 0.5W

Microphone: Dynamic type, uni-directional

Nominal Impedance: 200ohm at 1kHz

Frequency Response: 300-11,000Hz

Cable: 1.5m steel braced

Approx. weight: 210g

Headset DMH220

Double muff, heavy duty closed-cup type with a fixed, flexible moulded boom-arm, housing a noise cancelling dynamic mic.

Very robust construction, terminated with an XLR 4-pin connector. (Also available with an XLR-5 pin connector for use with older binaural beltpack designs).

The DMH220 headset is suitable for use with the BP511, BP523 and BP525 beltpacks and offers a wide, smooth response for reduced listening fatigue.

Suitable for use with Series 1 and Series 2 products.

SPECIFICATION:

Earpcup: 2 x 400ohm impedance at 1kHz

Frequency Response: 20-20,000Hz

Sensitivity: 94dB s.p.l. for 1mW

Distortion: Less than 0.5%

Max. rated power handling: 0.5W

Microphone: Dynamic type, uni-directional

Nominal Impedance: 200ohm at 1kHz

Frequency Response: 300-11,000Hz

Cable: 1.5m steel braced

Approx. weight: 250g

High Performance Headset SMH310

Single muff, heavy duty closed-cup type with a boom arm that can rotate to enable left or right hand operation.

The broadcast quality, noise cancelling, dynamic microphone is switched off by swinging the mic upwards.

Very robust construction, terminated with an XLR 4-pin connector.

The SMH310 headset is suitable for use with the BP511, BP523 and BP525 beltpacks and offers high specification and performance.

Suitable for use with Series 1 and Series 2 products.

SPECIFICATION:

Earpcup: 400ohm impedance at 1kHz

Frequency response: 20-20,000Hz

Sensitivity: 94dB s.p.l. for 1mW

Distortion: Less than 0.5%

Max. rated power handling: 0.5W

Microphone: Dynamic type, uni-directional

Nominal Impedance: 200ohm at 1kHz

Frequency response: 40-15,000Hz

Cable: 1.8m

Approx. weight: 220g

High Performance Headset DMH320

Double muff, heavy duty closed-cup type with a boom arm that can rotate to enable left or right hand operation.

The broadcast quality, noise cancelling, dynamic microphone is switched off by swinging the mic upwards.

Very robust construction, terminated with an XLR 4-pin connector. (Also available with an XLR 5-pin connector for use with older binaural beltpack designs).

The DMH320 headset is suitable for use with the BP511, BP523 and BP525 beltpacks and offers high specification and performance.

Suitable for use with Series 1 and Series 2 products.

SPECIFICATION:

Earpcup: 2 x 400ohm impedance at 1kHz

Frequency Response: 20-20,000Hz

Sensitivity: 94dB s.p.l. for 1mW

Distortion: Less than 0.5%

Max. rated power handling: 0.5W

Microphone: Dynamic type, uni-directional

Nominal Impedance: 200ohm at 1kHz

Frequency Response: 40-15,000Hz

Cable: 1.8m

Approx. weight: 350g

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Master Loudspeaker Station

Optional Gooseneck Microphone

MS741

Designed to be the hub of a wired intercom system, the compact MS741 Master Loudspeaker Station has been developed from the highly successful original Tecpro designs that dominate the UK live events industry. It maintains the traditional high standards of construction while offering useful new features that satisfy common installation and operational demands.

The MS741 Master Loudspeaker Station has two independent intercom circuits, A and B, which can be addressed separately or together by the operator. Each circuit can power up to 25 Tecpro BP511 beltpacks. Circuit B may be linked to circuit A to form a single circuit supporting up to 50 beltpacks.

Each intercom circuit has its own individual power supply with short-circuit protection. All protection is electronic and automatic and no resetting is necessary following removal of a fault condition. The Master Loudspeaker Station can be operated world-wide without the need to change AC power supply settings.

As events become more complex, two communication circuits may not be enough. Linking the ME742 Master Loudspeaker Station Extender unit to the Master Loudspeaker Station creates two additional circuits, C and D, technically identical to A and B. They may be used independently or linked as required. In total, between 1 and 4 intercom circuits may be configured.

External audio sources such as programme feeds or show relay can be mixed to either intercom circuit using the 'Aux Level' control. To ensure important announcements are always heard, the 'Override' function triggers any Tecpro LS200 or LS300 loudspeaker stations operating on a selected circuit to default to pre-set audio levels independent of the loudspeaker's current volume control setting which may have been turned down to zero.

The 'Announce' mode allows paging directly to an external PA system by routing the talk-back mic signal to a dedicated output on the rear panel. This mode can also be triggered externally via a rear 6-pin DIN socket.

To keep communications clear of excessive background noise and chatter, all Series 2 Tecpro beltpack and user stations on a selected circuit can be silenced remotely from the MS741 Master Loudspeaker Station using the 'Remote Mic Kill' facility*.

* Tecpro Series 2 products are backwards compatible with first generation designs with the exception of the 'Remote Mic Kill' which applies to Series 2 products only.

Master Loudspeaker Station MS741

- Compact 1U format
- Two independent intercom circuits, A and B (increases to four when combined with ME742 Extender unit)
- Supports up to 25 Tecpro BP511 beltpacks per circuit
- Circuit B may be linked to A to form a single circuit supporting up to 50 beltpacks
- Built-in electret talk-back microphone. XLR4 input for optional gooseneck mic or headset
- High efficiency 2 inch elliptical loudspeaker on front panel. External speaker outlet jack on rear
- Additional 6.35mm jack input on rear for inserting external dynamic mic
- Mic amp limiting circuit protects against distortion and overloads
- Rear XLR3 socket 'Aux' Mic/Line input. Switchable 48V Phantom power on mic input
- 'Aux' programme material mixes to either or both circuits. Front panel 'Aux' level control
- Dual action 'Circuit Select' and 'Mic ON/OFF' switches with latching and non-latching modes
- DC and 20kHz 'Call' alert signal send and receive. Visual and audible 'Call' indication
- 'Override' function triggers Tecpro LS200 and LS300 paging loudspeakers to default to pre-set audio levels
- 'Announce' mode for paging to external PA system. This mode may also be triggered externally via a 6-pin DIN socket
- 24kHz 'Remote Mic Kill' send and receive
- Power output 1.1A per circuit
- Short circuit and overload protection with indication for each intercom circuit

The Master Loudspeaker Station is fitted with a Universal Power Supply 90-260V AC, 50-60Hz and can be operated world-wide without the need to change AC power settings.

Master Loudspeaker Station Extender

ME742

Designed to interface with the MS741 Master Loudspeaker Station this extender unit is not intended for standalone operation.

The compact ME742 Master Loudspeaker Station Extender is 1U high and has been developed from the highly successful original Tecpro designs.

As events become more complex, two communication circuits may not be enough. Interfacing the ME742 Master Loudspeaker Station Extender unit with the MS741 Master Loudspeaker Station creates an additional two circuits, C and D, technically identical to A and B. Between 1 and 4 intercom circuits may be configured.

Each intercom circuit has its own individual power supply with short-circuit protection. All protection is electronic and automatic and no resetting is necessary following removal of a fault condition. The Master Loudspeaker Station Extender can be operated world-wide without the need to change AC power supply settings.

External audio sources such as programme feeds or show relay can be mixed to either or both intercom circuits. The amount of auxiliary signal added is set using the 'Aux Level' control on the MS741 Master Loudspeaker Station.

The 'Override' function triggers Tecpro LS200 or LS300 loudspeakers stations to default to pre-set audio levels, independent of the loudspeaker's current volume control setting. The 'Override' button is located on the MS741 Master Loudspeaker Station.

'Announce' mode allows paging to an external PA system directly from the ME742 Master Loudspeaker Station Extender by routing the talk-back mic signal (derived from the MS741 Master Loudspeaker Station) to a dedicated output on the rear panel. The 'Announce' function is independent and separate from the similar function on the Master Loudspeaker Station. This mode can also be triggered externally.

To keep communications clear of background noise and chatter, all Series 2 Tecpro beltpack and user stations on circuits C and D can be silenced remotely from the MS741 Master Loudspeaker Station by the 'Remote Mic Kill' facility*.

*Tecpro Series 2 products are backwards compatible with first generation designs with the exception of the 'Remote Mic Kill' function which applies to Series 2 products only.

Master Loudspeaker Station Extender ME742

- Compact 1U format
- Two independent intercom circuits, C and D
- Supports up to 25 Tecpro BP511 beltpacks per circuit
- Circuit D may be linked to C to form a single circuit
  Circuit C may be linked to circuit A on MS741
- 'Aux' programme material mixes to either or both circuits
  'Aux' level is controlled from MS741
- Dual action 'Circuit Select' and 'Mic ON/OFF' switches with latching and non-latching modes
- DC and 20kHz 'Call' alert signal send and receive
  Visual and audible 'Call' indication
- 'Override' function triggers Tecpro LS200 and LS300 paging loudspeakers to default to pre-set audio levels
- 'Announce' mode for paging to external PA system
  This mode may be triggered externally
- 24kHz 'Remote Mic Kill' receive
- Compatible with first generation Tecpro designs (except 'Remote Mic Kill')
- Power output 1.1A per circuit
- Short circuit and overload protection with indication on each intercom circuit
- Not for standalone use

The Master Loudspeaker Station Extender unit is fitted with a Universal Power Supply 90-260V AC, 50-60Hz and can be operated world-wide without the need to change AC power settings.

Master Headset Station

MS745

Designed to be the hub of a wired intercom system, the new compact MS745 Master Headset Station is 1U high and offers two independent intercom circuits which can be addressed separately or together by the operator. The feature set has been carefully chosen to suit the majority of touring and fixed installation applications.

The MS745 Master Headset Station is ideal for applications where a simple two circuit intercom system is required without the need for future expansion. If more facilities and intercom circuits may be required, the MS741 Master Loudspeaker Station and ME742 Master Loudspeaker Station Extender unit should be considered.

Each intercom circuit has its own individual power supply with short-circuit protection. All protection is electronic and automatic and no resetting is necessary following removal of a fault ondition. The Master Headset Station can be operated world-wide without the need to change AC power supply settings.

Each intercom circuit (A and B) can power up to 25 Tecpro BP511 beltpacks. Circuit B may be linked to circuit A to form a single circuit supporting up to 50 beltpacks.

The operator listens and talks to other users via a headset and may speak to circuit A, B, or both by pressing the associated circuit select buttons. Both circuits remain independent and cannot communicate with each other (unless linked).

External audio sources such as programme feeds, show relay or paging announcements can be mixed to either or both intercom circuits. The amount of auxiliary signal added is set using the 'Aux Level' control.

To keep communications circuits clear of background noise and chatter, due to microphones being left open unnecessarily, Series 2 Tecpro beltpack and user stations can be silenced remotely from the MS745 Master Headset Station by use of the 'Remote Mic Kill' facility.*

*Tecpro Series 2 products are backwards compatible with first generation designs with the exception of 'Remote Mic Kill' which applies to Series 2 products only.

Master Headset Station MS745

- Compact 1U format
- Two independent intercom circuits, A and B
- Supports up to 25 Tecpro BP511 beltpacks per circuit
- Circuit B may be linked to A to form a single circuit supporting up to 50 beltpacks
- Front panel XLR4 input for headset
- Side-tone presets on front panel for circuits A and B format
- Mic amp limiting circuit protects against distortion and overloads
- Rear XLR3 socket 'Aux' Mic/Line input. Switchable 24V Phantom power on mic input
- 'Aux' programme material mixes to either or both circuits.

  Front panel 'Aux' level control
- Dual action 'Circuit Select' and 'Mic ON/OFF' switches with

  latching and non-latching modes
- DC and 20kHz 'Call' alert signal send and receive.

  Visual and audible 'Call' indication
- 24kHz 'Remote Mic Kill' send and receive
- Compatible with first generation Tecpro designs (except 'Remote Mic Kill')
- Power output 1.1A per circuit
- Short circuit and overload protection with indication on each intercom circuit

The Master Headset Station is fitted with a Universal Power Supply 90-260V AC, 50-60Hz and can be operated world-wide without the need to change AC power settings.

Power Supplies

PS751 and PS753

Tecpro Series 2 Power Supplies provide 24V DC to power small to medium sized intercom systems while terminating the audio lines with the correct impedance, enabling full duplex (simultaneous, two way) conversations to take place over extended cable runs. The 2A supply is capable of driving up to 45 BP511 beltpacks and is housed in a compact, robust, extruded aluminium case designed to withstand the rigours of the live events environment.

They are fully compatible with older Tecpro designs.

Series 2 power supplies are protected against short circuit and over-temperature. Protection is electronic and automatic and no resetting is necessary following removal of a fault condition. This new generation of PSU can be operated world-wide without the need to change AC power supply settings.

Two versions are available. The PS751 offers single circuit operation only and is ideal for schools and small venues where simplicity of operation is essential. User stations are linked to the power supply via four parallel male XLR connectors on the rear panel. A green LED indicates 'Power ON'

The PS753 is similar but offers three independent intercom circuits which may be linked to create either one or two circuits. It is suitable for smaller theatres and rental companies who may need separate circuits to allow members of the sound crew, for example, to talk together without overhearing the lighting crew and vice versa. User stations are linked to the unit via three male XLR connectors (one per circuit). Two yellow LEDs indicate circuit linking.

All three circuits operate independently (unless linked), and draw their power from the 2A DC supply. A green LED indicates 'Power ON'

If there is a need for a director to talk to operators on more than one intercom circuit either separately or together, then a Tecpro Master Station should be considered.

Power Supply PS751 and PS753

- Free-standing, compact
- Tough, extruded aluminium case
- Universal power supply 90-260 V AC, 50-60Hz
- Power output 2A total
- Short circuit and overload protection with indication
- Automatic reset after short circuit
- Supports up to 45 Tecpro BP511 beltpacks
- 3-Pin XLR system connectors are compatible with standard mic cables
- Three independent, linkable intercom circuits (PS753 only) with indication
- 'Power ON' and 'Overload' indication
- Suitable for use with Series 1 and Series 2 products

Power Booster

PB752

The Tecpro Series 2 PB752 Power Booster provides a simple method of supplementing the 24V DC system power within existing Intercom systems of any size when there is insufficient drive current available. This may be due to power loss over long cable runs or because too many outstations and loudspeaker stations are connected to the system.

To avoid altering the system impedance set by the main power supply, the PB752 does not terminate the line and no additional isolating components are required.

Maximum available current is 2A and is shared between two outputs to facilitate connection to larger two circuit intercom systems. When connected to a single circuit only, the full 2A is available for that circuit.

The PB752 can be linked to an intercom system at any point. If cable runs are long, the farthest point where voltage drop off is worst would typically be the best connection point.

The Power Booster is protected against short circuit and over-temperature. Protection is electronic and automatic and no resetting is necessary following removal of a fault condition. The unit can be operated world-wide without the need to change AC power supply settings.

The Power Booster is compatible with older Tecpro designs.

Power Booster PB752

- Free-standing, compact
- Tough, extruded aluminium case
- Universal power supply 90-260V AC, 50-60Hz
- Power output 2A total
- Short circuit and overload protection with indication on each intercom circuit
- Automatic reset after short circuit
- Supports up to an additional 45 Tecpro BP511beltpacks when used any with Tecpro power supply or master station
- 3-Pin XLR system connectors are compatible with standard mic cables
- 'Power ON' indication
- Suitable for use with Series 1 and Series 2 products

Rackmount Power Supply

PS754

The new Tecpro 1U Rackmounting Power Supply / Power Booster provides 24V DC system power for Tecpro intercom systems and has two modes of operation.

When used as the principal system power supply, it terminates the audio lines with the correct impedance to enable full duplex (simultaneous, two way) conversations to take place over extended cable runs. Alternatively, it may be used to boost system power where the existing power supply has reached its limit. In this mode, termination is not required as this has already been set by the principal system power supply.

The PS754 is similar in design to the power supplies found in the latest generation of Tecpro Master Stations. In 'Power Supply' mode, it provides two independent intercom circuits each rated at 1.1A. This is sufficient to power 25 BP511 beltpacks per circuit. Circuit B can be linked to circuit A to provide a single circuit. The link switch is recessed in the front panel to avoid accidental operation and an LED indicates 'Linked' status.

On the rear chassis, a single 3-pin male and 3-pin female XLR connector wired in parallel are supplied for each of the two circuits. This male/female arrangement provides a convenient cable loop-through facility.

Switching from 'Power Supply' mode to 'Power Boost' disables the terminations on circuits A and B. The switch is rear mounted to avoid accidental operation and a front panel LED indicates 'Termination Off'.

Circuits A and B have dedicated power supplies with short-circuit protection. Protection is electronic and automatic and no resetting is necessary following removal of a fault condition.

As the supplies are independent, in the event of a cable fault temporarily disabling one circuit, the other circuit will continue to operate uninterrupted.

Rackmount Power Supply PS754

- Compact 1U format
- Universal power supply 90-260V AC, 50-60Hz
- Two operating modes – Power Supply or Power Booster
- Provides correct termination for audio line in Power Supply mode
- Suspends termination in Power Booster mode
- Single male XLR3 and female XLR3 connector per circuit (A and B) for cable loop through
- Supports up to 25 Tecpro BP511 beltpacks per circuit
- Circuit B may be linked to A to form a single circuit in both Power Supply mode and Power Boost mode
- Power output 1.1amps per circuit (A and B)
- Short circuit and overload protection with indication on each intercom circuit
- Automatic reset after short circuit
- Suitable for use with Series 1 and Series 2 products

Handset Station

HS591

The Tecpro HS591 handset is designed to provide clear, intelligible communication in situations where a standard beltpack and headset would be inconvenient – for example in a theatre foyer, ticket office or corridor. It has most of the functionality of a beltpack and is suitable for desk top or wall mounted operation.

When a 'Call' signal is received, a red LED flashes to attract attention and an internal buzzer sounds. The buzzer may be programmed to remain silent.

On detection of a 24KHz 'Remote Mic Kill' tone, the microphone circuit automatically mutes.

Handset Station HS591

- Desk top or wall mounted operation
- Earpiece and microphone mute when handset in mic cradle
- 'Call' switch with red LED
- 'Call Alert' buzzer and 'Mic Live' indicator
- Suitable for use with Series 1 and Series 2 products

Xenon Strobe Lamp

SL909

The Xenon Strobe Lamp unit can be connected at any point in a ring and when a call signal is sensed, will produce high power flashes at approximately one per second from a xenon beacon. The current consumption of 60mA is approximately equivalent to one BP511 beltpack.

2 to 4 Wire Adapter

AD903

The AD903 2 to 4 wire adapter allows connection of almost any audio source to a Tecpro ring intercom 2 wire system. For example, most broadcast video cameras have in-built 4 wire comms systems which are cabled within the main video cable. Use of an AD903 at the camera control unit will allow that camera to appear as a part of the Tecpro communication system, while minimising extra wiring and expense.

The AD903 will work with most separate send and receive communications systems in the same way. Levels are totally independently adjustable on input or output.

Other applications include injection of microphone or line level external inputs onto the comms system, and the connection for external equipment such as recorders, radio links, audio consoles or paging systems to listen to the comms system.

Walkie-Talkie Interface

AD913

The AD913 allows communication between a Tecpro wired system and a simplex radio system, typically a pair or more of Walkie-talkies.

It allows audio on the wired comms system to be transmitted to remote radios and replies from these remote units to be heard by parties on the wired system circuit.

Talkback Loudspeaker Stations

LS351

LS352

LS381

LS361

LS371

LS382

LS300 Series

The LS300 Series Talkback Loudspeaker Outstations are designed to cover a wide range of applications at a modest price. They can be used in a push-to-talk mode with the built-in microphone, or fitted with a plug-in gooseneck microphone for hands-free duplex communications. Alternatively, when required, plugging a headset or handset into the front panel turns the unit into a headset outstation, automatically muting the loudspeaker.

Operated by an ultrasonic control tone generated elsewhere in the system, the LS300 series is designed to provide several functions in override mode. Override can be used to take control of the system by forcing all loudspeaker stations from talk into listen mode. Emergency announcements can be made by turning on outstations which are locally off. Alternatively, loudspeakers can be muted from a central location by presetting the volume to minimum, then activating override.

Note: Care must be exercised when using the LS300 series Loudspeaker Station in hands-free duplex applications. The unit deliberately contains no vox switching to prevent loss of syllables. While excellent side-tone rejection prevents the unit from feeding back on itself, system feedback is likely to occur if more than one loudspeaker station in hands-free mode is operated simultaneously.

Using the LS300 in push-to-talk mode or with a headset will help feedback occurring.

Suitable for use with series 1 and series 2 products.

Models:

LS351 Single circuit, for desk top
(XLR 3-pin connections)
Input for optional 24V DC PSU

LS352 Dual circuit, for desk top
(XLR 5-pin and 3-pin connections)
Input for optional 24V DC PSU

LS361 Single circuit, wall mount
(Screw terminal connections)

LS371 Single circuit, flush mount
(Screw terminal connections)

LS381 Single circuit, rack mount, 1U
(XLR 3-pin connections)
Input for optional 24V DC PSU

LS382 Dual circuit, rack mount, 1U
(XLR 5-pin and 3-pin connections)
Input for optional 24V DC PSU

Paging Loudspeaker Stations

LS391

The new Tecpro LS391 is a compact, mains powered, listen-only Loudspeaker designed to provide high quality monitoring of a single intercom circuit. It marks a departure from other Tecpro loudspeakers, being the first to be powered from the AC mains.

The 5 watt output combined with its unobtrusive size and wall mounting option make this speaker well suited to supply 'Paging' and 'Show Relay' to dressing rooms, foyer and other areas where ambient noise levels may sometimes be elevated. Tecpro's 'Override' detection circuitry ensures the LS391 will default to a pre-set volume whenever a control signal is sensed, ensuring important messages will always be heard.

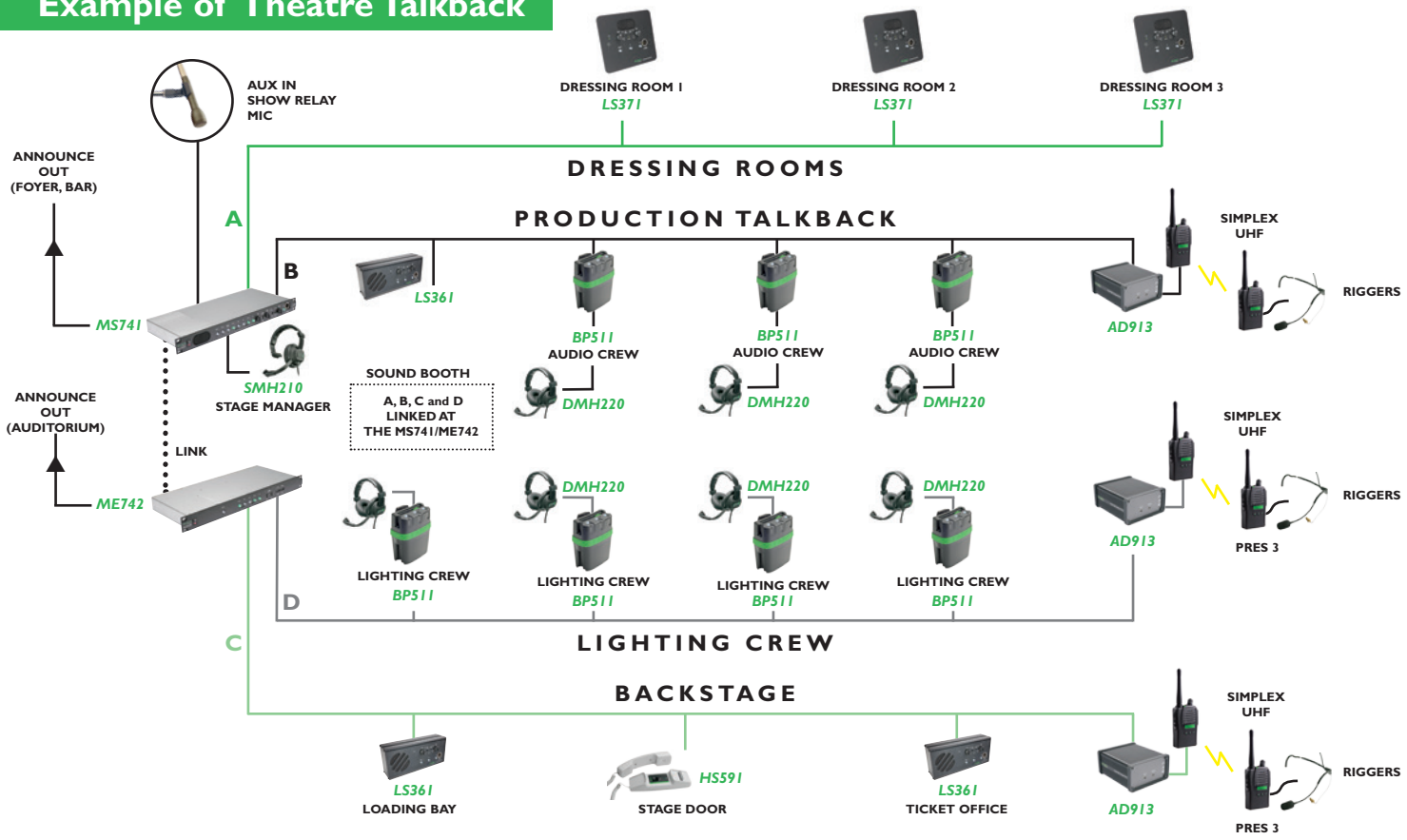
NOTE:

The Tecpro Master Station MS741 can generate an 'Override' control signal to control Tecpro Loudspeaker Stations. No other Tecpro station has this facility.

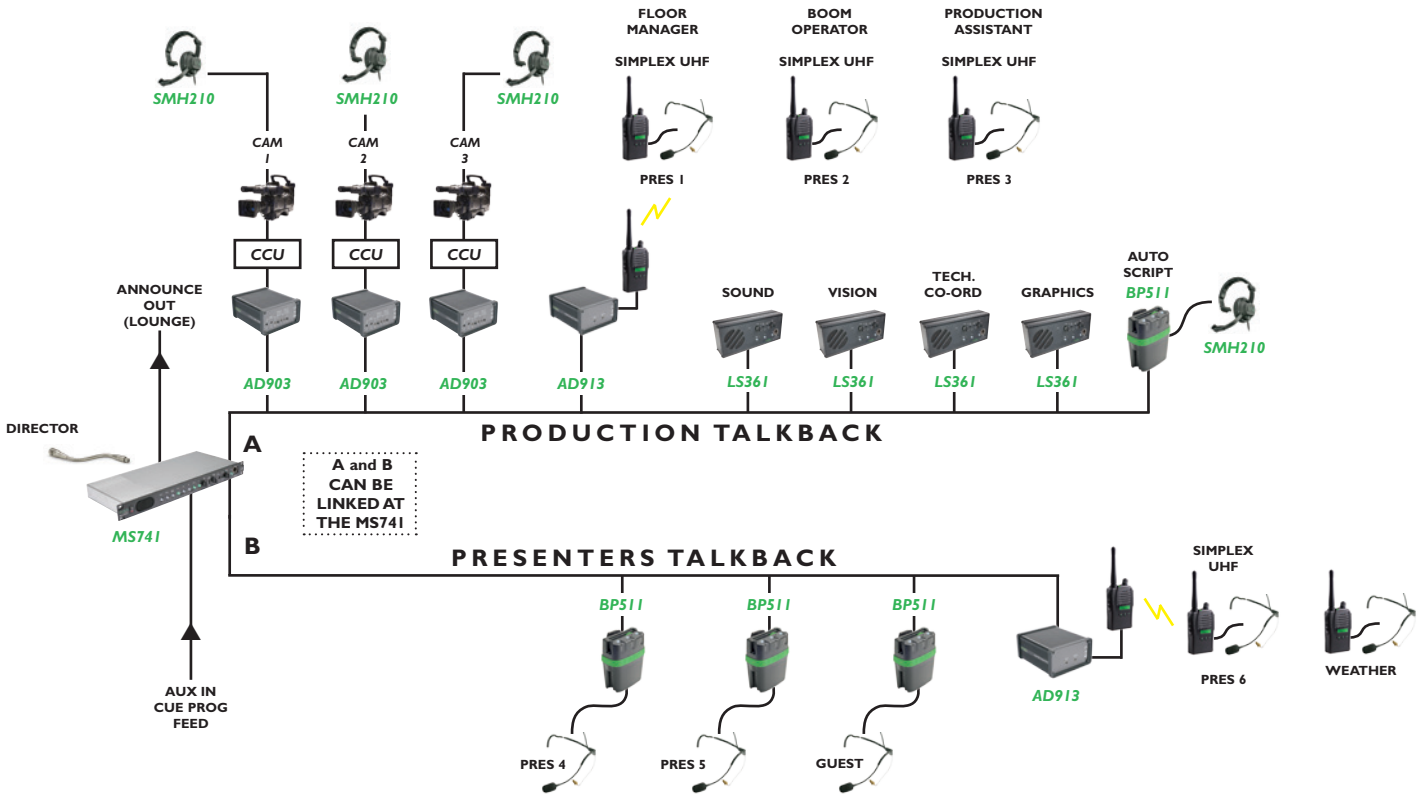
Models:

LS319 Single circuit table top / wall mount with front panel volume control and override to present level Mains powered

Example of Theatre Talkback



Example of Television Production Talkback



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