

*PowerLink Pro*TM

Multi-Operatory Intraoral Camera Networking System



Audio/Video Routing, Distribution and Control Systems



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PowerLink Pro Networking

The *PowerLink Pro* is an innovative, efficient, expandable, intelligent and easy-to-use video control system designed specifically for multiple operatory installations. Productivity is essential in the busy dental office of the '90s, and the *PowerLink Pro* gives every user full access to all centrally located components from every operatory on the network.

PowerLink Pro Features

1. Easy to use

The *PowerLink Pro* operates automatically. When a camera is turned on, the *PowerLink Pro* will automatically link it to the printer. If all printers on the network are in use, the *PowerLink Pro* will assign a position in its built-in chronological queue for that camera. As printers become available, the *PowerLink Pro* will automatically cycle through the queue until all cameras have had access to the printers. Status of each operatory's printer connection is available through an in-wall control panel installed in each operatory. This keypad also lets you select additional video playback sources through the *PowerLink AX*.

2. Expandable to Four Printers

The *PowerLink Pro* allows full control of one (expandable to four) video printers integrated into one network. All four printers can be used simultaneously without interference between operatories.

A PowerLink Pro Exclusive!



PLPR-MOD1 Expansion Module

*PowerLink Pro*TM

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PowerLink Pro Features

- 3. Multi-Standard Compatibility**

The *PowerLink Pro* is available in either composite or S-VHS versions, making it compatible with any analog intraoral camera system on the market.
- 4. Eight Intraoral Camera Inputs**

The *PowerLink Pro* integrates up to eight operatories and allows up to eight intraoral cameras to be used simultaneously.
- 5. Built-in Patient Confidentiality**

The *PowerLink Pro* also provides your patients with the full confidentiality that you require. Some systems allow a user to see other operatories by merely changing a channel. Do you want your patients seeing that, even by accident? With the *PowerLink Pro*, the only monitor that can display the image of your patient is the one in that operatory.
- 6. Network remote control of composite or S-VHS equipment, including the Sony DKR-700**

The *PowerLink Pro* built-in infrared control unit allows wireless remote control of centrally located equipment, including video printers, VCRs, CD-i Players, DVD, Laser Disc, DSS and more. Wireless control of the new Sony DKR-700 Digital Still Image Recorder is available only through the *PowerLink Pro*.
- 7. Footswitch control of all video printers**

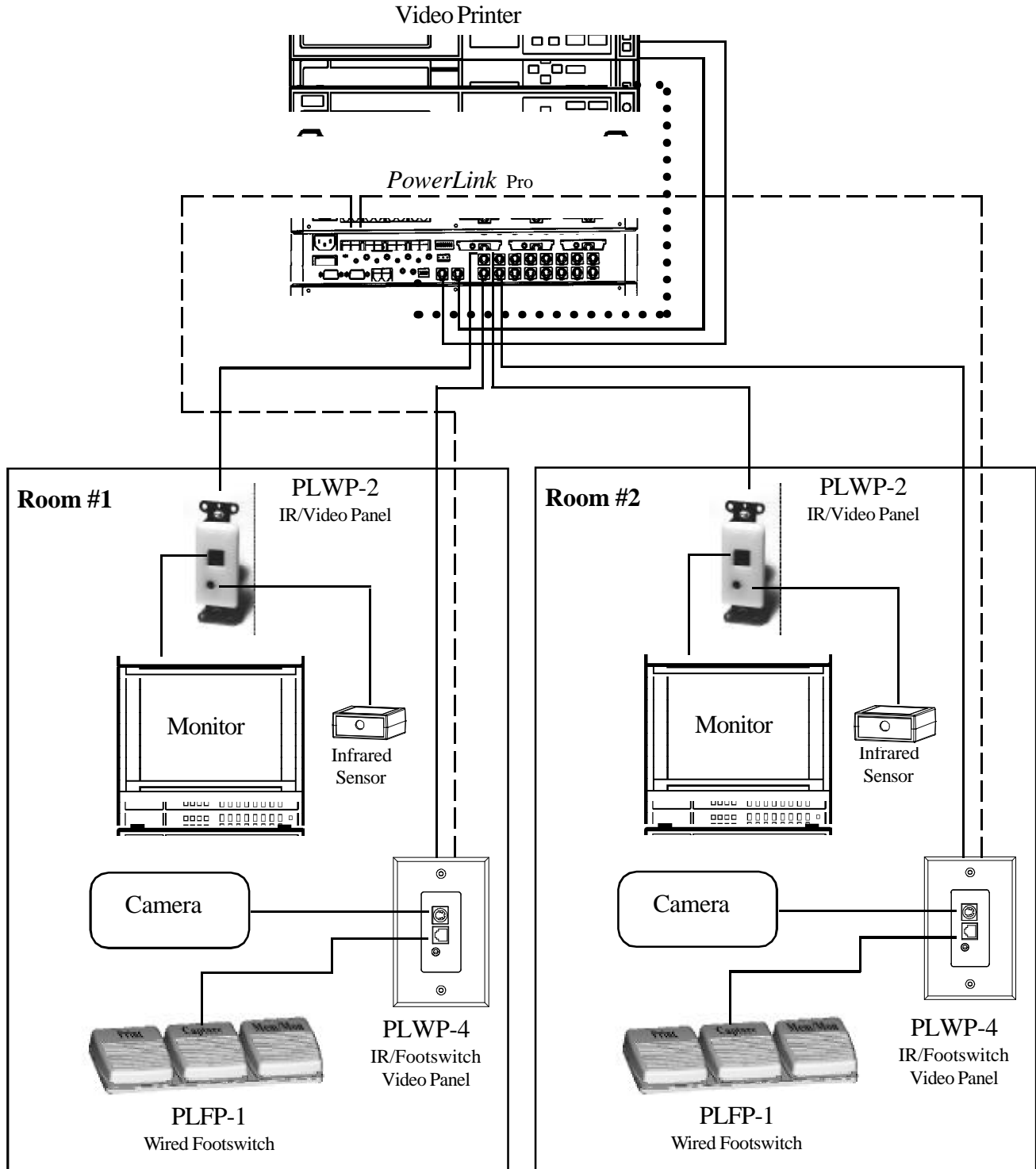
Through an integrated footswitch, the *PowerLink Pro* gives you control of three basic functions on a video printer: Print, Capture, and Source. The *PLFP-1* is ergonomically balanced and designed to provide comfortable hands-free operation of your video printer. As new models of video printers enter the market, your *PowerLink Pro* system printer commands can be upgraded through the RS-232 port, meaning your system will never become obsolete due to peripheral equipment.
- 8. Easy Installation**

The *PowerLink Pro* is an integrated video and infrared control system designed specifically for the multi-operatory dental office. Connections are kept to a minimum and are conveniently located, making setup quick and easy.

PowerLink Pro™

Multi-Operatory Intraoral Camera Networking System

Typical PowerLink Pro Installation



*PowerLink Pro*TM

Multi-Operatory Intraoral Camera Networking System



Patient Education and Relaxation

The *PowerLink Pro* can provide full control of your patient education and relaxation system via the *PowerLink AX*. The *PowerLink AX* allows you to connect up to 4 video input devices to the *PowerLink Pro* (such as CD-i, VCR, DVD, DSS, etc.) The signal from each of these video devices can then be routed to each operatory through the *PowerLink Pro*.

***PowerLink AX* Features:**

- 4 A/V source inputs
- 8 A/V outputs
- Stereo Audio
- Video loops for cameras and auxiliary sources to monitors
- Source selection via in-wall selection keypad *AVM-63-188* or *RM-PL100* remote control for the DKR-700
- Infrared control of only the source equipment being viewed by each operatory.

All specifications subject to change without notice.

Contact your local dealer for recommendations on proper design & installation of your *PowerLink Pro*.

Your local dealer has many tested and proven ideas to make your practice more enjoyable, efficient, and productive for you and your patients.

PowerLink Pro™

Multi-Operatory Intraoral Camera Networking System

Specifications:

Models Available

| | |
|--------------------|-----------------|
| PowerLink PR | Composite Video |
| PowerLink PS | S-VHS Video |

Camera Inputs

| | |
|--------------------------|---------------------|
| Number of Inputs | 8 |
| Bandwidth | 100 Mhz (-3dB) |
| Video Standard | International |
| Gain | Unity |
| Level | .5 to 2 Volts (p-p) |
| Impedance | 75 Ohm |
| Differential Gain | .05% |
| Differential Phase | .07Δ |

Monitor Outputs

| | |
|-------------------------|----------|
| Number of Outputs | 8 |
| Gain | Unity |
| Level | 1V (p-p) |
| Impedance | 75 Ohm |

Connectors

| | |
|--------------------|----------------|
| PowerLink PR | Female BNC |
| PowerLink PS | 4-Pin Mini DIN |

Infrared Control

| | |
|---------------------------|---|
| Number of Inputs | 8 (each operatory) |
| IR Sensor Voltage | 12 vdc (standard) 5 vdc (switchable) |
| IR Sensor Expansion | via 3-pin TB |
| Number of Outputs | 1 each printer 4 master outputs |

Footswitch Control

Print, Capture, Source available for printers

Printer Loop

| | |
|--|---------------------------------|
| Video Printers | Sony |
| Controlled (all models of each manufacturer) | Hitachi Toshiba Panasonic |
| Digital Image Recorders | Sony Panasonic |

Printer manufacturer infrared controls can be field upgraded via the RS-232 and any computer system running Windows 95 or Windows NT software to allow for future printer upgrades.

Expansion Ports

Number of Ports

3

Keypad Ports

Number of Ports

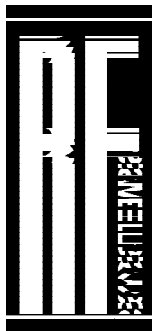
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Number of Keypads

16 supported

| | |
|-------------------------|-------------------------------|
| RS-232 Interface | 9 pin D-sub Female |
| DKR-700 Interface | 9 pin D-sub Female |
| Protocol | Fixed at 9600,8,1,N |
| Dimensions | 16 ¼ x 13 ¼ x 3 ½ in. |
| Rack Mountable | Yes |
| Shipping Weight | 18 lbs |
| Power Supply | 110-240 Volt auto-switch mode |

All specifications subject to change without notice.



Manufactured by
R.F. Systems, Inc.
Lafayette, Colorado
303-604-6881

Available through:

PowerLink Pro Accessories

PLFP-1

3 Position Video Printer Footswitch

The PLFP-1 allows you to have hands-free operation of any model video printer on the market when used with the *PowerLink Pro*.



PLPR-MOD1

Video Printer Expansion Module for S-VHS Video

PLPR-MOD2

Video Printer Expansion Module for Composite Video

The PLPR-MOD modules allows you to expand the number of video printers in the *PowerLink Pro* network. Up to three PLPR-MOD modules can be used at one time to allow four printers to be operating simultaneously.



PLPR-AUX1

Video Source Expansion Module for S-VHS Video

PLPR-AUX2

Video Source Expansion Module for Composite Video

The PLPR-AUX modules allows you to expand the number of video sources in the *PowerLink Pro* network. Up to three PLPR-AUX modules can be used at one time to allow three extra video sources to be routed to the operatories.

The following Decora® style panels are designed to make installation of the *PowerLink Pro* easier. Each panel is designed to allow interconnection of infrared and footswitch signals in an single operatory with a single cable running from each operatory back to the *PowerLink Pro* location.

Using different models allow you to place footswitches and IR sensors conveniently in each operatory such as IR sensors by monitors and footswitches by the cameras.

All panels fit in a standard 1.8 cu in. j-box. Each panel also comes with two mounting screws. They do not include the cover plate.

PLWP-1

In-Wall Connector Panel for IR/Footswitch

The PLWP-1 allows you to connect a footswitch (PLFP-1) and an IR Sensor back to the *PowerLink Pro*.



PLWP-2

In-Wall Connector Panel for IR/S-VHS Video

The PLWP-2 allows you to connect an IR sensor and S-VHS video close to the monitor. These signals then can be routed back to the *PowerLink Pro*.



PLWP-3

In-Wall Connector Panel for IR/Composite Video

The PLWP-3 allows you to connect an IR sensor and composite video close to the monitor. These signals then can be routed back to the *PowerLink Pro*.



PLWP-4

In-Wall Connector Panel for IR/Footswitch and S-VHS Video

The PLWP-4 allows you to connect an IR sensor, footswitch, and S-VHS video close to the camera. These signals then can be routed back to the *PowerLink Pro*.

PLWP-5

In-Wall Connector Panel for IR/Footswitch and Composite Video

The PLWP-5 allows you to connect an IR sensor, footswitch, and composite video close to the camera. These signals then can be routed back to the *PowerLink Pro*.

AVM-63-188

In-Wall Control Keypad

The AVM-63-188 allows you to control the queue and source selection functions of the *PowerLink Pro* from each operatory. This keypad allows you to override the automatic operation of the *PowerLink Pro*.

