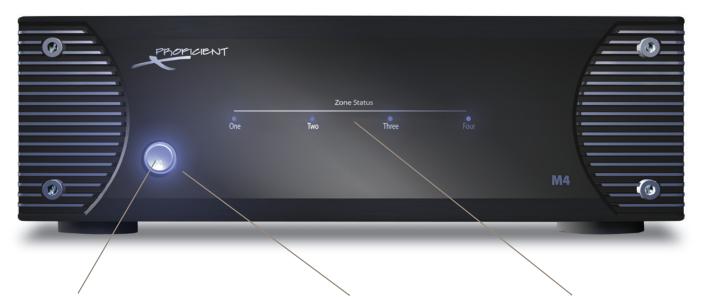


M4 QUICK START GUIDE

Figure 1M4 Front Panel Features



MASTER POWER SWITCH

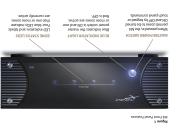
When pressed in, the M4 permits zones to be turned ON and OFF by keypad or touch panel commands.

BLUE INDICATOR LIGHT

Blue indicates the master power switch is ON and one or more zones are active. Red is OFF.

ZONE STATUS LEDS

LED indicators and labels: Four blue LEDs indicate that one or more zones are currently active.









КЕУРА НООКИР

PRODE PAGE IN COORD
SOURCE 3

O - O SAPUTS

L R
O - O LOOP

O - O NOUTS

O- O







CONFIGURE THE KEYPAD BUTTONS

M4 SPECIFICATIONS

EXPANSION POITS
RISE jacks provide for connection
of specialized fissist connection
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M4 FEATURES

Figure 2 M4 Rear Panel Features

DIFFORM SOCI

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SOURCE 2

SOURCE 2

SOURCE 2

SOURCE 2

SOURCE 2

SOURCE 2

O - O

SOURCE 1
O - O SPUTS
O - O LOOP

SOURCE 5

O - O ROUTS

L R

O-Q 1000

SOURCE 6 INPU

0-0

M4 AUDIO CONTROLLER WITH KEYPAD SYSTEM

The Public OWN Mystem consists of four adulystems. Iso/scation data from the logical to trigger to the Public Own Mystem of the Public Own Mystem of the Public Own Mystem of the Company by your arrangements and placed in a one, many by your arrangements and placed in a one, many by your arrangements are possed on a composition of the public Own Accordance of the Company of the Public Own Accordance of the Public Own Accordance of the Ow

KEYPAD GANG CONFIGURATIONS

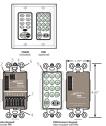


SINGLE GANG

0000

@

DOUBLE GANG



protection. Data — Sends IR control signals for control of system components. GND — Return power, IR signal and data. 485 A / 485 B — Bal bi-directional system communications data.

Triple Gang Set-Up

TRIPLE GANG

the use of a handheld remote for control of a components.

7. Connection Terminals – for CATS homen-termination. #Relay and – Relay – for future +12V – Powers the keypsad, including the inter-ceuter on model PMIGIR. Includes reverse ve protection. Data – Sends ill control signator control of system components. CMD – Return power, IR signal and data. 485 A f 435 b I-detectional system communications data.

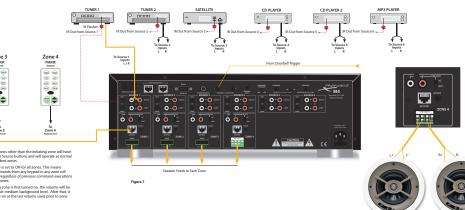
SYSTEM CONNECTIONS AND CONFIGURATION

SYSTEM CONNECTIONS AND CONNECTIONS AND CONNECTION FACTOR PER A CONNECTION AND CON





A TYPICAL M4 KEYPAD CONTROLLED SYSTEM



A TYPICAL M4 INSTALLATION

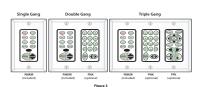
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M4 AUDIO CONTROLLER WITH KEYPAD SYSTEM

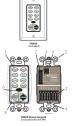
The Proficient Me System consists of four subsystems.

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KEYPAD GANG CONFIGURATIONS



SINGLE GANG



7. Connection Terminals – for CATS in termination. + Relay and – Relay - for +12V – Powers the keypad, including

DOUBLE GANG



Address (S to S).

8. Function States - Address (S to S) when the several through through the several through through the several through through the several through through through the several through through the several through the several through through through the several through through the several through through the several through thro

TRIPLE GANG

addresses (0 to F).

4. Snap Tabs – These tabs hold the decorator style insert panel to the metal mounting plate and are easily released for custom changing of the buttons.

5. Mounting Plate – Standard plate allows the keypad module to be attached to standard in-wall

989 989 000 000 000 40P

J-Boxes using the two screws provided attachment of standard decorator type idea to screwise same por plates.

6. B Receiver Lens - Version PRIKE in the screwise same properties.

7. Connection Framinals - For CATS is termination. Helps and - Relay - For farmination. Helps and - For CATS is received no model PMIKE Includers received on model PMIKE Includers received on model PMIKE Includers components. CMD - control of system components. CMD - screen of system communications.

8. Function Bixtens - These lower CMD.

Factory Default System

As mentioned earlies the Micones with a set of four
pre-configured PMIRIS Reyards, one for each zone. In
addition, the Mis pine programmed at the factory
interior style and of the block. The Intelligence and
this default as a base on which to build customized
project. The default project has the following
full project. The default project has the following
full project. The style project has the following
full projec

ix Function keys: BASS, TREB, MUTE, PWR, VOL UP,

: Volume Down command. Also serves as Bass or Treble Down after first pressing BASS or TREB keys.

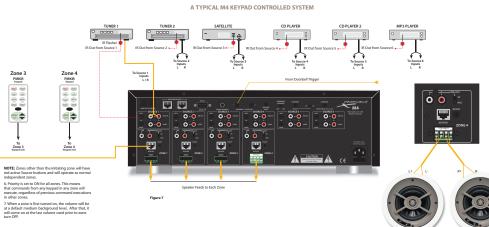
NOTE: While in the Treble or Bass tone modes, the selected Source button will blink at a medium rate, to indicate the tone setting mode. The tone setting mode is defeated by one press of any button other than the Tone and Volume buttons.

PWR: Set as Zone Power OFF. Will NOT turn the zone ON. Press and Hold for two seconds turns all zones

SYSTEM CONNECTIONS AND CONFIGURATION



A TYPICAL M4 KEYPAD CONTROLLED SYSTEM



A TYPICAL M4 INSTALLATION

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libre fised control of the MC assiston) donime
AC-MAC SAMLON
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Richard Space, one for each zone, provides dedicabled Sone Rout outnos year Tauqni anos avecas and montipate initiated from the respective zone components when he want to prevent the control of it sancs are the sone one present sones.

L & R SPEAKERS TERMINALS.

These 4-circling highgable screw-down terminals accept wine sizes from 14 to 28 AWG. They allow quick connection of the internal amplifiers to stereo pairs of speakers in the various zone rooms.

mb to 1000.

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The RADIO IN 61 COOK STATES of The Country of the RADIO IN 61 COOK STATES OF THE COUNTRY OF THE

IRLOOP JACKS

These sax 3.5mm mini phone jacks, one for each source, are provided exclusively for sone expansion capability when using two or more Me controllers. They permit the source IR signals from the added zones to be carried to the source Recource component emitters.

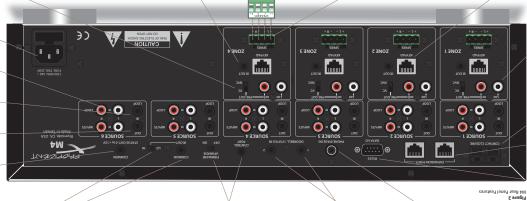
IR OUT JACS.
These 3 Smm mini phones jacks, one for each source, provide deficiented fourthur to prefer course child fourthur to prefer course. This providents cross-control instructions of the providents cross-control instructions for the provident provident providents of the provident providents of the providents o

COMMON STRUG OUT PORT

This 3-5mm mini phone jedk will go LOW (under 1V

DC) when the last zone is turned OFF. The max output

Of this jeck is 100 mA at 9.5V DC.



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M4 SPECIFICATIONS

Rated Power/Channel (RMS, 2 channels driven into 8 Ω)	30 Watts, 20Hz - 20kHz
THD (at rated power)	< 0.7%
Power/Channel (RMS, 2 channels driven into 4 Ω)	45 Watts @ 1kHz
Input Sensitivity (For rated power @ max VC)	300 mV
Input Impedance (source inputs)	> 22 kΩ
Input Overload (source inputs)	2.5 V
Output Voltage @ Pre-Outs (w/300 mV @ source inputs)	1.7 V, VC Setting, VC Max 810 mV, NVC Setting
Output Impedance (pre-outs)	< 300 Ω
Frequency Response (@ 1 watt @ 8 Ω)	20Hz - 20kHz ± 1.5dB
Channel Separation	> 50dB @ 10kHz
Crosstalk Between Sources	> 65dB @ 10kHz
S/N Ratio (re: rated output, source inputs shorted)	> 95dB (VC 20dB IEC A, below FCW)

Treble Control Range	
Control Sections	

Contact Closures (dry) 2A, 30V AC/DC Ma Phone Page In

- Voltage/Impedance Audio Line Level, > 22 kΩ Doorbell/Status In 1 & 2, 10 mA @ 12V AC/DC 3V - 30V AC or DC

±10dB @ 10kHz

Common IR Out

- HI (high power) 9 V Active High, 82 \,\Omega\$ (110 mA Peak)

- LO (emitter power) 9 V Active High, 670 \,\Omega\$ (13 mA Peak) Zone IR Outs
- Voltage/Impedance 9.2 V Active High, 620 Ω (13 mA Peak)

Source IR Outs (and loop) 11.5 V Active High, 390 Ω (29 mA Peak) – Voltage/Impedance 9.5 V @ 100 mA Common Status Out (0-12V DC)

PROFICIENT Audio Systems

Power Consumption	
No Signal (idle)	50 Watts
At 1/8 Rated Power (3.75 watts/channel)	110 Watts
Line Ratings (120V AC version)	120V AC, 1.8A
Rear Panel Fuse (120V AC version)	T5AL 250V
Line Ratings (230V AC versions)	230V AC, 0.9A
Rear Panel Fuse (230V AC versions)	T2.5AL 250V
Dimensions (H x W x D)	513/46" x 173/4" x 153/4" 148mm x 435mm x 394mm
Moinht	20 lbc (0.1 los)

Limited Two-Year Warranty

Systems, or a Proficient Audio Systems Authorized Dealer has been advised of the possessy such damages, or for any claim by any other party. Some states do not allow the exclusion or limitation of consequential damages, so the above limitation and exclusion may not apply.

CE



Figure 8 Release Tab





Figure 11 Ribbon Cable – PMKIR Right

Figure 12 Ribbon Cable – PMKIR Left



CONFIGURE THE KEYPAD BUTTONS

key buttons, **Figure 9**.

2. Starting with the Zone I PMKIR (master keypad), and using the extra buttons supplied, if needed, move and place the source and function buttons in the arrangement you want. See **Figure 10**. When you finish the arrangement, replace the deconator insert panel over the buttons, being careful to see that the buttons align correctly with the panel openings. Press the panel down until the tabs "snap" into place.

Press the panel cown until the tabs snap into pace. 3. Repeat these steps for each of the other zone master keypads. Each zone can have its own unique configuration... but, it is best to keep them as similar as possible to simplify programming and operation. 4. In the same way, configure the buttons on the numeric and function keypads (not included) that you may chose to use in some zones.

5. Connect all keypads to their assigned zones on the M4 as shown in **Figure 7**. Be sure to strip then connect the various colored CATS leads to the correct terminals on each keypad end. Refer to **Figure 15**.



Figure 14 RJA-1.1 Attached to Keypad and CATS



KEYPAD HOOKUP

NOTE: The numeric and function keypads will not work on their own. They must be connected to a master keypad using the 3-connector ribbon cable supplied (included with each model). The cable is supplied (included with each model). The cable is symmetrical so it can be connected with the red striped side up or down, to best fit the configuration Figure 11 shows it connected so that the PMKIR master keypad will be to the right of the PNK numeric and PFK function keypads when mounted, whereas Figure 12 places the PMKIR to the left.

NOTE 1: If you want to use RJ45 connectors for connecting the CAT5 cable to the keppads, you can do so by using the Proficient model RJ-11 RJ45-to-Wire Fin Adapters. See Figure 13 and Figure 14. Simply insert the RJ4-1.1 pins to the keypads connection terminal and snap the levers in place. Be sure to orient them correctly as shown.



