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You can read the recommendations in the user guide, the technical guide or the installation guide for RANE CP 62. You'll find the answers to all your questions on the RANE CP 62 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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## RANE OPERATORS MANUAL CP 62 COMMERCIAL PROCESSOR



### QUICK START

This unit packs a lot of features, so let's start by just getting some music running through it. Make all connections with the power amplifiers off. The CP 62 **must** be earth grounded for safety and correct operation. Connect a wire to the grounding screw (near the POWER input jack) to a known earth ground. The CP 62 can drive two zones with separate program and levels. Zone 1 can be a stereo zone (determined by the MONOSTEREO MODE switch on the rear), we'll look at that up next. The zone outputs are fully balanced, so we recommend the use of balanced cables (1/4" Tip-Ring-Sleeve) to connect to the amplifier. If the amplifier's inputs are unbalanced, the CP 62 still works fine using 1/4" (Tip-Sleeve) connectors if cable lengths are kept short (under 10 feet). Connect the CP 62 ZONE 1 LEFT and RIGHT OUTPUTS to the amplifier inputs. Hook up a CD or tuner to PROGRAM INPUT 1 using a standard stereo RCA cable. Plug the RS 2 power supply into the red power connector on the back of the CP 62 and its line cord into the AC line—the PWR LED should come on. Turn both ZONE LEVEL controls fully counter-clockwise. Turn the PROGRAM INPUT LEVEL LINE 1 up to 12 o'clock. Now it's OK to turn on the amplifier. Slowly turn up ZONE 1 LEVEL. With the CD tuner playing, you should hear program coming from the speakers.

Now connect your other sources to the other PROGRAM INPUTS. Select each input with the ZONE 1 PROGRAM SELECT switch. Adjust individual source levels with the PROGRAM INPUT LEVELS. Adjust zone volume with the ZONE LEVEL control. Take the zone 1 equalizer to your liking. Connect a second amplifier to the ZONE 2 OUTPUT and run separate programs and levels to another room.

**Never connect anything except an Rane RS 2 power supply to the thing that looks like a red telephone jack on the rear of the CP 62.** This is an AC input and requires special attention if you do not have an operational power supply **exactly** like the one originally packed with your unit.

**Never connect anything except the optional Rane R1 zone assign or R2 source and level remote controls (or their equivalents) to the things that look like black telephone handset jacks on the rear of the CP 62.** These are not telephone connections.

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When the line 4 signal is absent for more than 30 seconds, the CP 62 automatically switches back to the previous signal source and slowly fades the audio level from silence to normal volume (nice touch, eh?). It can be used for Jukeboxes or any intermittent music source that gets turned on and off. Some examples of intermittent sources would include compact disc players, cassette decks or karaoke. If a TV is connected, simply turning on the TV will automatically switch the CP 62 from music to TV.

Turning off the TV defaults back to the previous program source. This feature provides an easy switch for transparent operation. **PAGING INPUTS** There are two. The MIC input is a 3-pin balanced connector. The PHONE/LINE input is an unbalanced 1/4" TS phone jack intended to connect to the telephone system's paging output transformer or any other line level paging source. **ZONE OUTPUTS** These are 1/4" TRS balanced phone jacks. **ZONE 1 OUTPUT** provides a stereo zone. The **ZONE 1 MODE** switch can convert this to dual mono or stereo. When in **MONO**, it is possible to use zone 1 as two mono zones with the same source. The individual dual mono levels are set by daisy chaining two optional R2 remote controls.

This overrides the front panel level control. **SOURCE & LEVEL REMOTE INPUTS** Two 4-pin modular jacks on the rear control source and level remotely using an optional R2 remote control unit for each zone. **REMOTE ZONE ASSIGN INPUT JACK** If only one paging input (MIC or PHONE/LINE) is required, this jack needs no connection. Just set your chosen input on the rear **PAGING INPUT ASSIGN SWITCH**: to the right for MIC or to the left for PHONE/LINE. This gives zone assign control to the front panel **ZONE ASSIGN** switch. However, if two separate paging inputs are desired, this jack must be used. There are two connection options: 1. The optional R1 remote control unit: The R1 allows remote selection of paging **ZONE 1**, **ZONE 2** or **BOTH** (just like the front panel **ZONE ASSIGN** switch only up to 200 feet away!). The R1 is selected to control either the MIC or PHONE/LINE input via the rear **PAGING INPUT ASSIGN SWITCH**. The front panel **ZONE ASSIGN** switch defaults to the other input.

2. The supplied configuration adaptor: With this we hardwire (literally) the setting normally selected by the R1. To select zone 1, connect the black & green wires together. To select zone 2, connect the black & red wires together. To select both zones, connect the black, red & green wires together.

Insulate all wires when through with this procedure. **NOTE:** You must use straight copper stranded telephone wire (not tinsel wire) for the remote hookups--200 feet maximum of 28-26 gauge 4 conductor telepel Remote Control Table 1 shows the flexibility of configuring the R2. The R2 controls operate the same as the **PROGRAM SELECT** and **ZONE LEVEL** controls on the front of the CP 62, when enabled by the front panel **REMOTE CONTROL** button. **ZONE 1 STEREO MODE** Locate and set the switch in the R2 to **STEREO**, as shown in Figure 1a. **ZONE 1 MONO MODE** This delivers a total of three mono zones from the CP 62.

Zone 1a and 1b use the same source with independent **LEVEL** controls. To separate Zone 1 into 1a and 1b, use two R2 remotes connected to Zone 1. Plug a cable from the **MAIN** jack of the first R2 into the **ZONE 1 REMOTE** jack on the back of the CP 62 and set the first R2's slide switch to **DUAL MONO**, as shown in Figure 1b. Plug a cable from the **MAIN** jack of the second R2 into the **AUX** jack on the first R2. A third R2 plugged into the CP 62 **ZONE 2 REMOTE** jack gives control over the third mono zone, operated as Zone 2. Figure 1a. Figure 1b. Table 1. R2 Installation Options Desired Configuration 1 Stereo Zone (Zone 1) 1 Mono Zone (Zone 2) Both of the above 3 Mono Zones (Zones 1a, 1b, & 2) Zone 1a and 1b use the same Source Selection Remote Functions **SELECT** & stereo **LEVEL SELECT** & mono **LEVEL** both as above Zone 1 Mode **STEREO** not applicable **STEREO R2 Connections** CP 62 **ZONE 1 SOURCE** & **LEVEL** jack CP 62 **ZONE 2 SOURCE** & **LEVEL** jack 2 R2 units both as above Use 3 R2s. @@Zone 1b - second R2's **MAIN** to the first R2's **AUX** jack.

@@**SELECT** for Zone 1a & 1b. @@@@**RJ11**, **RJ14**). This type of connector will not fit into the CP 62 remote outlets. The appropriate connector for the CP 62 is a 4-position/4-conductor, and is referred to as a "telephone modular handset connector". It does not have an RJ number to describe it. Most companies have their own different part numbers for this part. 1. Install standard copper stranded 28-26 gauge 4 conductor flat telephone cable to an empty electrical box where the remote is to be located. Do not use high flexibility tinsel cable. Strip an end to check if necessary.

The ampere rating for tinsel wire is too low, affecting system remote reliability. Maximum cable distance from the CP 62 is 200 feet. 2. Install a modular handset connector on each end of the telephone cable, taking note of wire colors as shown in Figure 4. Special crimp hand tools and the connectors may be purchased at commercial telephone supply outlets.

This tool is different than standard telephone modular line types. 3. Plug one end into the **MAIN** jack of the remote control unit. Connect the other end to the desired jack on the back of the CP 62. Figure 2.

**Installation** The R1 and R2 remote control units will mount in standard U.S. electrical boxes in the same way as wall switches or outlets, as shown in Figure 2. Use a **DECORA®** wall plate or equivalent to allow the labeling on the front of the remote to be visible. **DECORA** wall plates are available in a wide range of colors at most hardware stores. Figure 4. Remote connector wiring Manual-7 Figure 3b. Stereo and Mono Zone Control Example Figure 3a. Three Mono Zones Control Example **IMPORTANT NOTE CHASSIS GROUNDING** The CP 62 is supplied with a rear mounted ground-lift switch. The unit is shipped with this switch in the "grounded" position, tying circuit ground to chassis ground.

If after hooking up your system it exhibits excessive hum or buzzing, there is an incompatibility in the grounding configuration between units somewhere. Your mission, should you accept it, is to discover how your particular system wants to be grounded. Here are some things to try: 1. Try combinations of lifting grounds on units that are supplied with ground lift switches or links. 2. Verify that all chassis are tied to a good earth ground, (i.e., through the line cord grounding pin or grounded amplifier chassis.) Do not depend on the painted rack screws and rails to ground the chassis. 3.

The CP 62 does not ground the chassis through the line cord. Make sure that these units are grounded either to another chassis which is earth grounded, or directly to the grounding screw on an AC outlet cover by means of a wire connected to a screw on the chassis with a star washer to guarantee proper contact. Please refer to RaneNote 110, "Sound System Interconnection" included in this manual for further information.



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