



**P111CD**



**Horn Loudspeaker**

## IMPORTANT

### Installer and Users please note:

These instructions should be read carefully and left with the user of the product for future reference.

## BEFORE USE

You must inspect the product for any signs of damage. If the product is damaged, DO NOT use it, and contact your supplier immediately.

## INSTALLATION

Remove the mounting bracket from the loudspeaker, and, using it as a template, mark the positions of the three fixing holes. Drill three holes, and fit a wallplug in each hole. Attach the mounting bracket to the wall using woodscrews and washers. Re-attach the loudspeaker to the bracket.

Connect the loudspeaker to a suitable amplifier.

The P111CD may be used with either 100 Volt line amplifiers or low impedance amplifiers.

### For use with a 100 V line amplifier:

Remove the rear cover of the P111CD and connect the output from the amplifier to the terminals as follows:

There will be a two-core cable connected to the output of the amplifier. Connect this cable to the loudspeaker as shown below:

Maximum power	Positive lead goes to:	Negative lead goes to:
50 W	Red terminal	Yellow terminal
25 W	Yellow terminal	Green terminal
12.5 W	Green terminal	White terminal
9 W	Red terminal	Green terminal
4.5 W	Yellow terminal	White terminal
3.5 W	Red terminal	White terminal

Choose the appropriate connection according to the volume required from each particular loudspeaker. Use a higher power in noisy workshops, or a lower power in quieter offices.

Do not connect more than two terminals.

Any number of loudspeakers may be connected to the amplifier, provided that the maximum rated power of the amplifier is not exceeded. For each loudspeaker connected, determine the maximum power (by looking at which terminals are connected), and add up all these figures. The total must not exceed the rated power of the amplifier.

**For use with a low impedance amplifier:**

Remove the rear cover of the P111CD and connect the output from the amplifier to the red and black terminals (red terminal to the positive output).

Most low impedance amplifiers can drive a 4Ω load. Verify this by checking the manual supplied with the amplifier.

If so then a maximum of TWO P111CD loudspeakers may be connected to each channel of the amplifier provided that no other loudspeakers are also connected to the same amplifier (most low impedance amplifiers are stereo and have two outputs)

Some amplifiers, however, can only drive an 8Ω load. If this is the case, then only ONE P111CD loudspeakers may be connected to each channel of the amplifier.

If the amplifier is rated at more than 50 Watts, then great care should be exercised not to exceed the maximum rated power of the P111CD.

## OPERATION

The P111CD is a horn loudspeaker, designed for maximum efficiency in the vocal range. It therefore has a limited frequency response of 90 Hz to 20 kHz, which does not include low bass frequencies. The loudspeaker may be damaged if driven with excessive amounts of bass frequencies. If a bass control is available on the amplifier then it should be turned down to reduce the amount of bass.

On specialised 100 Volt line amplifiers there may be a "low-cut" or "high-pass" filter switch which eliminates low bass frequencies from the output. If this switch is available, then it should be switched ON.

## FAULT FINDING

**Output is very quiet on a low impedance amplifier:**

Connection has been made to the 100 V line terminals instead of the low impedance terminals which are red and black.

**Output is very loud and distorted on a 100 V line amplifier:**

Connection has been made to the low impedance terminals.

**Excessive distortion on music signals:**

The signal contains too much bass. The P111CD is not designed to reproduce bass frequencies.

**Excessive distortion on voice announcements:**

The microphone is being held too close, which increases the amount of bass in the signal. Hold the microphone further away, or reduce the bass control on the amplifier.

**Feedback (howlround):**

The loudspeaker has been mounted too close to the microphone. Either move the loudspeaker further from the microphone, or rotate it to point away from the microphone.

## **TECHNICAL SPECIFICATION**

Dimensions:	360×255×315 mm
Weight:	4 kg
Frequency response:	90 Hz — 20 kHz
Maximum power:	50 W
Sensitivity:	99 dB @1 W @ 1m
Connections:	Terminal blocks
IP rating:	IPX6

## **DISPOSAL AND RECYCLING**

You must not dispose of this appliance with domestic household waste.

Most local authorities have specific collection system for appliances and disposal is free of charge to the end-user.

When replacing an existing appliance with a similar new appliance your retailer may take the old appliance for disposal.

## **SERVICE WARRANTY**

Electrovision guarantees the product free from defects in materials and workmanship for a period of twelve months.

Should this appliance be operated under conditions other than those recommended, at voltages other than the voltage indicated on the appliance, or any attempts made to service or modify the appliance, then the warranty will be rendered void.

The product you buy may sometimes differ slightly from illustrations. This warranty is in addition to, and does not affect, your statutory rights.

Our guarantee is administered by our retailers.

If your product arrives damaged, you must contact the retailer from whom you bought it. The retailer's contact details will be on the invoice that arrived with the product, or on the e-mail you received when you placed the order. Do not contact Electrovision, only your retailer can arrange a replacement.

If the product needs to be repaired or replaced, you must contact the retailer from whom you bought it.

The retailer's contact details will be on the invoice that arrived with the product, or on the e-mail you received when you placed the order.

If you have just received your product and require technical help in using it, please call our Help Desk on [0845] 459 4816

If you have any other technical queries about the product, please call our Help Desk on [0845] 459 4816.

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