



EP160 model pictured here

- Uses latest type GaAIAs/ GaAs high efficiency diodes
- Maximum IR power output 24 watts
- Output IR power continuously adjustable from 20% to 100%
- Automatically activated by transmitter
- Visual indicators to verify correct operation
- Loop through connections with no practical limit to size of system
- Convection cooled (no fans required)
- Complies with IEC 764 and is compatible with other systems of this type

The new Auditel EP510E Infra-Red Radiator transmits up to 21 channels of audio for simultaneous interpretation or tour guide systems, particularly in very large venues. Manufactured in metal with an adjustable swivel bracket. The panel is mains powered and has a built-in DC power supply unit. There are no user controls except for a variable output level control and the DC supply is automatically switched on when signals are received from the transmitter. The panel is convection cooled for noiseless, reliable and maintenance free operation. The emitter diodes are arranged in rows so that the failure of

an individual diode does not affect the remainder of the panel and the IR output power is not reduced by more than 2.5%. The radiator uses GaAIAs/GaAs diodes with an extended frequency range and is more powerful than the earlier models which it replaces. However it is fully compatible with the previous models and both types can be mixed in the same system. A single radiator can cover up to about 9,500 m² on one channel when used with Auditel IRX- type high sensitivity wireless infrared receivers. The radiators connect by a loop-through 50 ohm coaxial cable.

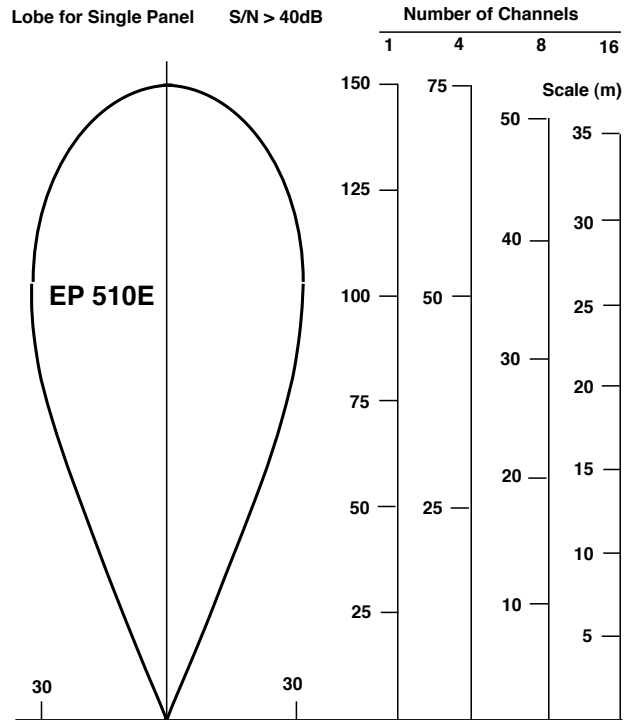
Performance

The primary factor is the S/N at the receiver output which is specific to the particular radiator/receiver combination used. The Auditel receivers and the EP510E are capable of giving a S/N better than 55dB but in most cases 40dB is considered adequate. The mounting height and inclination of the panel affects the performance as does the reflectivity of the room but to a first approximation the coverage of a panel may be represented in the form of a lobe enclosing the volume within which a particular S/N ratio will be achieved. In multi radiator systems the coverage of a single panel is enhanced by overlapping footprints and reflections and the coverage which can be achieved in practice is close to the maximum possible for the radiator.

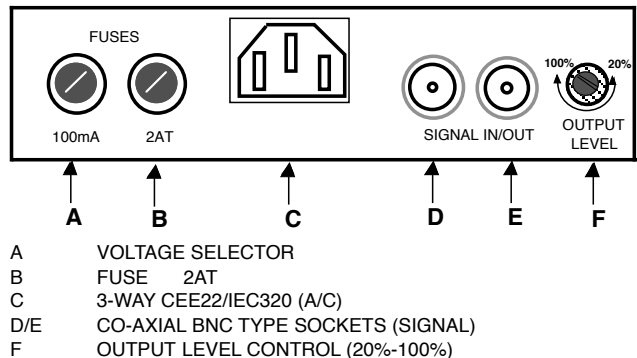
S/N	Max Coverage			Max Range		
	(m ²)			(m)		
> 40 dB						
	Angle					
	0°	45°	90°	0°	45°	90°
No. of ch.						
4	2375	1255	885	75	40	28
8	1190	630	445	55	28	20
12	790	420	295	43	23	16

Technical Data

Frequency Range	40 - 900kHz
Number of Emitter Diodes	522
Angle of Half Intensity	±25° °
Max. IR Output Power (watts)	24
Max. Coverage (single ch.) (m ²)	9500
RF input voltage	30mV - 2.0V
Power Consumption (VA)	130
Power Supply (AC)	110-240V 50/60Hz
Permissible Ambient Temperature	10 - 40°C
Size (H xW x D)	307x450x65(mm)
Weight (kg)	5.5
Complies with IEC 764 & IEC 914 standards	



Controls



Architects and Engineers specification

The high power infra-red radiator panel shall have a frequency range of at least 40kHz-900kHz and shall be self powered and automatically activated by signals from the transmitter. It shall be convection cooled and have a rotary switch to vary the output level from 20% to 100% with a maximum IR power of 24 watts. The panel shall have 522 high efficiency GaAIAs/GaAs emitter diodes with an angle of half intensity ±25°.

We reserve the right to vary the specification without notice in the interest of product improvement



conference and interpretation systems

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