

# REMCON-2 DYNAMIC FILTER™ REMOTE INDICATOR

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## APPLICATIONS

Recording Studio  
Screening Rooms  
Home Theater  
Laboratory

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## DESCRIPTION

The REMCON-2 is a remote Dynamic Filter™ indicator designed to be placed within visual distance of the mixing engineer or listener. It provides a visual indication when the Dynamic Filter threshold is crossed. A small metal box houses both a green LED, indicating system power on, and a red LED, indicating threshold crossed. This 1" h x 1" w x 4" d box may be conveniently located anywhere. A 10 foot connection cable is included and may be extended using a standard XLR microphone cable.

The Dynamic Filter™ is a complimentary technology to the Infra™ system, taking unique advantage of the Infra™ design approach to implement a transparent, inaudible and reliable protection scheme. In self processed systems the Dynamic

Filter™ threshold is internally set. Infra™ processing uses amplifier power and driver excursion extends to a flat frequency response well below the audible range. So, as the frequency lowers, it requires significant power and excursion to maintain the acoustically flat response. Typical musical content does not contain equal energy per octave, especially in the lowermost range. As a practical matter music program does not require the extreme amplifier power or excursion that a simple calculation would indicate. Exceptions occur when a system is asked to do more than it is capable of, or if an accidentally large signal is presented. When this occurs the threshold of the Dynamic Filter™ is crossed and the system protects itself from the bottom up by reducing the lowest frequencies. Since the most power and excursion is always required at the lowest frequency, reducing the level of the lowest frequencies first avoids an overload, while at the same time allowing the system to reproduce the middle bass, upper bass and upper crossover region unaffected. This is a very natural and inaudible method to protect the system and is unique to the Infra™ technology.

Critical mixing, and sometimes critical listening or laboratory experiments, requires the engineer to know and understand if the audio presented acoustically is equal to the electrical signal on the recording. The Dynamic Filter is audibly transparent therefor good practice requires visual indication on the REMCON-2 to determine and understand the low frequency content on the recording that is not present in the listening room.

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