

Cetecom ICT Services GmbH
Gerald Schmidt
Certification Manager International Type Approval
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Durchwahl
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Datum
09. Apr. 2001

FCC Approval Of The GuidePort System

Dear Mr. Schmidt,

please find our answers to the FCC questions below:

1. To qualify for professional installation, Sennheiser must explain why the hardware cannot simply be purchased and installed by the average (technically inclined) person.

This system is a complex multi-node distributed system designed to provide real time audio at a specific display or demonstration in areas such as museums, galleries, expositions, etc., At the discretion of the viewer. The system combines the strategies of a central computer controller, hardwired cabling between active display units, and coded transceivers allowing individual control of the requested information for a specific display. Specialized computer programs are required and provided only by Sennheiser to the installer that setup the requisite computer protocols. This system is designed to be installed during the construction phase or during a remodeling phase for the exhibit. All system components including cabling are provided or specified by Sennheiser in the case of non-rf related cables.

2. The device cannot be sold retail, to the general public or by mail order. It must be sold to dealers.

Sennheiser currently markets this product directly to commercial establishments only where a need for a distributed system to assist the viewing public is needed. It is not sold nor intended to be sold to the general public or by mail order. Future plans of Sennheiser are to market the product to its licensed dealers provided sufficient acceptance warrants distribution of this nature.

3. Requires professional installation. Installation must be controlled.

All installations are under the control of Sennheiser or its authorized installers

4. Installation by licensed professionals is required (EUT sold to dealer who hires installers).

As previously stated, current marketing is directly through Sennheiser and Sennheiser authorized installers are required to do the installation. Authorized installers will be either Sennheiser personnel or professional installers who have received the necessary training by Sennheiser personnel.

5. Installation requires special training (special programming, access to keypad, field strength measurements made). What is unique, sophisticated, complex, or specialized about your equipment which requires it to be installed by a professional installer?

Proper attachment of all interconnect cabling is always critical just as it would be with any distributed system such as a perimeter protection system or master antenna system installed. In addition, individual cells must be specially programmed for frequency as a function of the frequency of the adjacent cells. Since installations are indoors, multipath problems must be accounted for. Final evaluation of system performance and fine tuning system performance will be done when necessary using radiated field measuring equipment.

6. Please explain how the EUT meets all the above criteria for professional installation.

As explained above, this is a very complex system. Proper operation requires knowledgeable technicians that have received the required training. In view of the above, the Sennheiser system meets the criteria as specified in the oet letter.

Best regards,

SENNHEISER
Electronic GmbH & Co. KG



Dr. Enno Grotelüschen
Project Management