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**NEW SECTION! TIPS -
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MANGER

Manger MSM c1, the reference monitor

Although to exist it has more than 30 years and it withhold world-wide patents on its technology, capable to produce the best monitors of reference of the world , the Manger mark remains unknown of the great majority of the professional users. During some years, this German company, established for Josef W. Manger invested in the inquiry and development of transducers and columns that obtained to answer to the necessities of perfect hearing, similar the most possible to the proper hearing human being. This inquiry gave to origin the diverse products of high-allegiance that, unhappyly, if had lost in the immense forest that is this market of esoteric sound where génios and quacks coexist gladly. Happily, the Manger decided to create a system of monição of reference for the professional market, the monitors of studio MSM c1 that they finally promise to bring the mark for a segment where its effort could recognized and be used to advantage. The mark also gained recently distribution in Portugal, through the Filmebase/Cinesonics.

16.07.2011

After 30 years more than dedicated developing the perfect transducer, Josef W. Manger presented to the market the Manger Sound Transducer that, according to its Daniela son, current responsible of the Manger Products, allows to give to the technician of sound as to all in such a way the audiófilos and loving of music the perfect transducer. In our transducer, the typical peculiarities that exist due to construction of drivers conventional disappear soon to the head, of form to prevent the errors that all the others have. We made immense studies, since the physiology of the hearing of the human being, passing for all the type of listening who must be perfected, until arriving at a base that we considered the starting point for the natural and faithful reproduction of any sound. Of followed it was the choice of the materials to use, the production technique and quality of the same we are to speak of microns of error tolerance, the precision acoustics of the tests and everything more, taking to the creation of a capable transducer of a perfect reproduction .



The new monitor of reference MSM c1, created for the Manger. The new reference of professional listening? Who tried already it says that it is the most faithful monitor of studio until today created

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In first place it must be said that this transducer of the Manger had as base of proper development heard the human one and the form as this interacts with the environment where it is, that is, the reply of the ear is also conditional for the place where this if finds. If to remove this place of the equation, are with the bases for a perfect hearing, something that if becomes obvious for who makes audiologia tests and/or works in this branch.

Of one it forms fast, our direction of hearing does not have to only see with the frequencies that we hear and the pressure the one that they arrive in them at the ears (and remain body, is necessary not to forget that all the body is resonant), but also and very especially has to see with the calls transient waves, that allow in them to have the perception of \square so great \square and distance of the sound ear. According to audiologia specialists, in first place we hear the noise that is emitted of sequential form secular (that is the evolution of the sound during determined period of time), feeling and hearing transient, and alone later the tones, composites for the frequencies first, repetitions, etc. Each tone has, always, thus transient at the beginning, and are these that they communicate to our direction of hearing the localization of determined noise, sound, music, speaks, be that as it may, at the same time that also in the aid to identify to which the type of sound that we are to hear. He is in such a way, that music, being a complex tone and it mixture extremely transient is heard by our ears and perceived by our direction of hearing. But this does not want to say that let us be to hear everything, when hears music or other sounds reproduced through electrónicos components. For this a transducer capable is necessary to faithful reproduce (and not possible more faithful it) the natural sounds (they of digital natural or electromecânica form are generated/). E this transducer has extremely of being fast necessary e.

Code MSW

Transducer MSW created by Josef W. Manger operates being based on the principle \square bending wave \square , where the sonorous wave passes to be carried from the center to the periphery of the transducer always to the same speed, being at the same time a transducer of broad band, capable to reproduce an enormous gamma of frequency, without any type of delay and energy expense of impulsioneamento of the same waves, what it makes with that these if \square do not eat \square ones to the others. According to manufacturer, this transducer functions to an inferior speed the 13 micron-second, answering of the 80 Hz to the 40 kHz, allowing in such a way that exactly transient the faster and musical structures or sonorous complex are reproduced faithful, allowing the perception of some points of the sonorous source, from an only point of emission, the transducer. He is thus possible to have a truly space representation of the instruments or sources of sound, as well as of all the details that make with that these instruments or sonorous sources are identified.

On the other hand, one another problem that if put was of if creating an engine capable to generate a reply that afectasse the transducer in such a way. Thus the Manger created an amplifier that placed internally in its monitor of reference, with a performance that reach the 250 kHz, and with a time of reply of only 2 micron-second. This speed assures thus the total reply of the transducer since \square the more slow answers \square of the frequencies most serious, until \square the

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more fast answers □ of the highest frequencies, guaranteeing at the same time that the signal that leaves a mixture table is □ transformed □ when the time of reply arrives at the amplifier, recriando necessary to pass to the transducer the frequency and the certain speed for this frequency, of form that let us can hear of perfect form, keeping the naturalness of the sound.

Monitor MSM c1

In such a way the creation of this monitor of reference MSM c1 appears as one of the enormous new features of the actualidade. The wave guide, in form of star of nine tips is integrant part of the transducer, being responsible for the form as the frequencies if they involve ones with the others and at the same time they are broken up and they are carried. To guarantee the apercebido sound better, the manufacturer still created a altifalante of serious that she marries the transducer perfectly, being responsible for this domain of frequency. Same an additional unit to the serious ones was created only dedicated, that it can directamente be connected to the monitor, of form to strengthen these frequencies, also being able to be mounted on of proper column MSM c1, being in such a way situated transducer MSW in the way them two altifalantes of serious. But it was not only this way that the Manger was.

The company already has name in the market hi-end of installation and home-cinema and was also with this in mind that the responsible ones of engineering of projecto had still placed in the monitor the possibility of filters that allow the adaptation of the reply to the room, of form to remove the most possible this type of situations of listening most critical. Equalizações specific for nearfield and ecrãs of cinema, a period of training of level of entrance, that allows of necessary form to choose enters a listening of two canals (stereo) and a listening multicanal (5,1, 7,1, 7,2, etc), with a precision of rightness of each column that goes until the one tenth of one dB.

To finish, and to think about the form as she is that the monitorial column/can be carried and be moved of a place for another one until its final rightnesss, the manufacturer still placed two lateral handles, since the 30 column weighs kg. For that they specifically want (and they can) the Manger disponibiliza two supports still drawn for it, with some sizes available, and treated to form all to minimize and any contact of the column with the surrounding way, guaranteeing a total desacoplamento.

Clearly that everything this has a price and although not to arrive the extremities that the customers of the high allegiance know, is exactly thus a monitor of high values, going up to around the 5000 euros for each main unit. But also everything depends □ if we want optimum, we have to be prepared to pay the price. The Cinesonics already has this system in demonstration who to want to hear. The Audio Production goes to make a listening and later we count.

www.manger-msw.de

Distribution: **www.cinesonics.pt**

Martins João

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