FERNSEH & OLYMPIA '72



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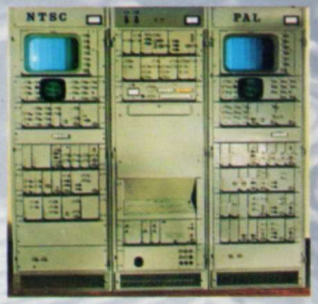
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12

12 color TV studios equipped with all the technical facilities supplied by ***FERNSEH*** are available to meet the requirements of modern program coordination from the studio control and artistic point of view, and enable individual news coverage or program preparation.



FERNSEH color standards converters permit the televised programs to be received in color throughout the world. 3 color TV systems with different scanning standards exist at the same time in the world. Only the conversion of the transmitted video signals into the standard of the receiving country allows a worldwide exchange of programs. ***FERNSEH*** color standards converters make possible technically perfect conversion between any standards.

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25

The mobile use of 25 ***FERNSEH*** remote vans enables on-the-scene coverage of all Olympic sports events. The remote vans are completely equipped mobile TV studios with all the facilities offering advanced electronic production techniques.



120

120 ***FERNSEH*** color TV cameras shoot pictures of the events. The universal color cameras of type KCU, used all over the world, are known for their perfection. High light sensitivity, high S/N ratio, fidelity of reproduction of color pictures, highest definition, are only some of their outstanding features.

Games have at all times been fascinating. Contests have always filled participants and spectators alike with enthusiasm. Scarcely any other event has had a larger audience: One million visitors are expected to attend the XX Olympiad 1972 in Munich and Kiel. One billion spectators throughout the world will follow the competitions on their TV sets — live, as if they were sitting in the stadiums. This is possible thanks to advanced television pickup and transmission techniques. An unequalled amount of video and audio equipment will make it possible to pick up the events of the Olympics and reproduce a random selection of them.
Robert Bosch Fernsehanlagen GmbH are proud to take part. For them to take part means to cooperate in planning the Munich "Olympiad of television technology" and in providing the majority of video equipment. Therefore, wherever television will be used during the Olympic Games, ***FERNSEH*** will take part; their logotype is to be found on most of the equipment:
FERNSEH-Olympia.

The essential part of the equipment required for television is the TV camera: By means of 150 advanced color cameras experienced cameramen pick up the events at the most interesting sports sites. More than 120 of these cameras are ***FERNSEH*** products of type KCU. Those who are in charge of planing and operation know why they prefer this successful camera: Fidelity of color reproduction, excellent definition, unequalled light sensitivity and ease of operation (stability and adaptability to varying environmental conditions) distinguish the KCU from all comparable cameras.
The new ***FERNSEH***-built hand-held reporter camera of type KCR will be employed in Munich for the first time. With it the cameraman can "mix with the crowd" and take pictures of persons and events at very close range. On-the-scene reporting requires mobilitiy and flexibility. Twenty-five camera remote vans and seven VTR vans supplied by ***FERNSEH*** meet this requirement. They are being used at nearly all Olympic sites.

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The worldwide TV information originates in a TV center located on the University sports grounds at the "Oberwiesenfeld". Master control on a global scale with huge switching and distributing facilities is situated there. Ninety ***FERNSEH*** monitors permit the sports events, picked up at the various sites in Munich and Kiel, to be selected for transmission of a round-the-clock Olympic program. This program is offered to all TV organizations throughout the world. Twelve TV studios supplied by ***FERNSEH*** with complete studio control equipment are available to broadcasters preferring their own news coverage. In these studios individual programs can be produced permitting for example interviews and summaries. A total of 1,200 hours of sports events will be recorded, of which 230 will be televised worldwide - an Olympic record.
Each TV network will freely select and combine its program sequence. Since all competitions, even if taking place at the same time, will be recorded on magnetic tape, each country can make up its own program from the great number of recorded sports events and place emphasis on certain aspects which may be of special interest to its viewers.



Sixty networks are relaying the 1972 Olympic Games to 98 countries. As many as 13 different color TV programs can be transmitted simultaneously.
Since not all the countries are using the same line standard and the same color transmission system, worldwide simultaneous transmission of the XX Olympics became possible only through the use of ***FERNSEH*** color standards converters and ***FERNSEH*** transcoders. Thus for example, two standards converters in operation at the Erdestation (earth satellite station) of RAISTING, Germany, convert the picked up 625-line PAL picture into the 525-line NTSC picture for the U.S. Further standards converters are available in Italy, Spain, France and Brazil. The transcoders are used for the SECAM countries.

Transcoders are in operation in Berlin and Prague for the OIRT countries. For the European countries the programs are relayed via Eurovision and Intervision. These distribution centers are also provided with a large amount of equipment produced by ***FERNSEH***.
The television equipment at the German Olympic Center (DOZ) is supplemented by equipment made available temporarily by German broadcasting organizations for transmitting the Olympic Games. Almost all of this equipment has also been manufactured by Robert Bosch Fernsehanlagen GmbH. Thus, for example, nearly all the units necessary for illustration and supplementation of live broadcasts, such as film and slide scanners, are ***FERNSEH*** products.

The television installations for transmitting the Munich Games are among the largest systems ever linked up. To solve this unique task, the German Olympic Center has made use of the worldwide experience of Robert Bosch Fernsehanlagen GmbH. Thus video planning was done in close cooperation with the system and project engineering departments of ***FERNSEH***.
The Olympic Games in Munich are not the first Olympiad in which ***FERNSEH*** takes part: Already in 1936 the first electronic cameras of the former Fernseh AG and a remote van using the intermediate film technique were employed for live transmissions. The installation of TV receivers with 50-cm picture tubes from the laboratories of Fernseh AG enabled many sports fans in the Berlin "television rooms" to follow the Olympic events outside the stadiums.
The world's best athletes have qualified for the 1972 competitions. ***FERNSEH*** equipment is being used in Munich in all fields of television. The choice of our products for use at the Olympics is proof of the confidence placed in their quality and reliability. We shall justify this confidence. ***FERNSEH*** is not only solving Olympic problems — let ***FERNSEH*** solve your video problems, too.

FERNSEH

ROBERT BOSCH
FERNSEHANLAGEN GMBH

D-61 Darmstadt,
P. O. Box 429

WEB 7/72 E

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