

**STUDEER**

Studer  
Creates

**STUDEER**

**Solutions and Products – an Overview**

# Studer Creates Solutions for:

## **Radio Production and Broadcasting 5**

Consoles - On-Air and Production, digital and analog  
Radio Automation Systems  
Consoles - Production and Live, digital and analog  
Routing Systems  
Small Consoles, Tape Recorders, Loudspeakers

## **TV Production and Broadcasting 11**

Consoles - Production and Broadcasting, digital and analog  
Routing Systems, Loudspeakers

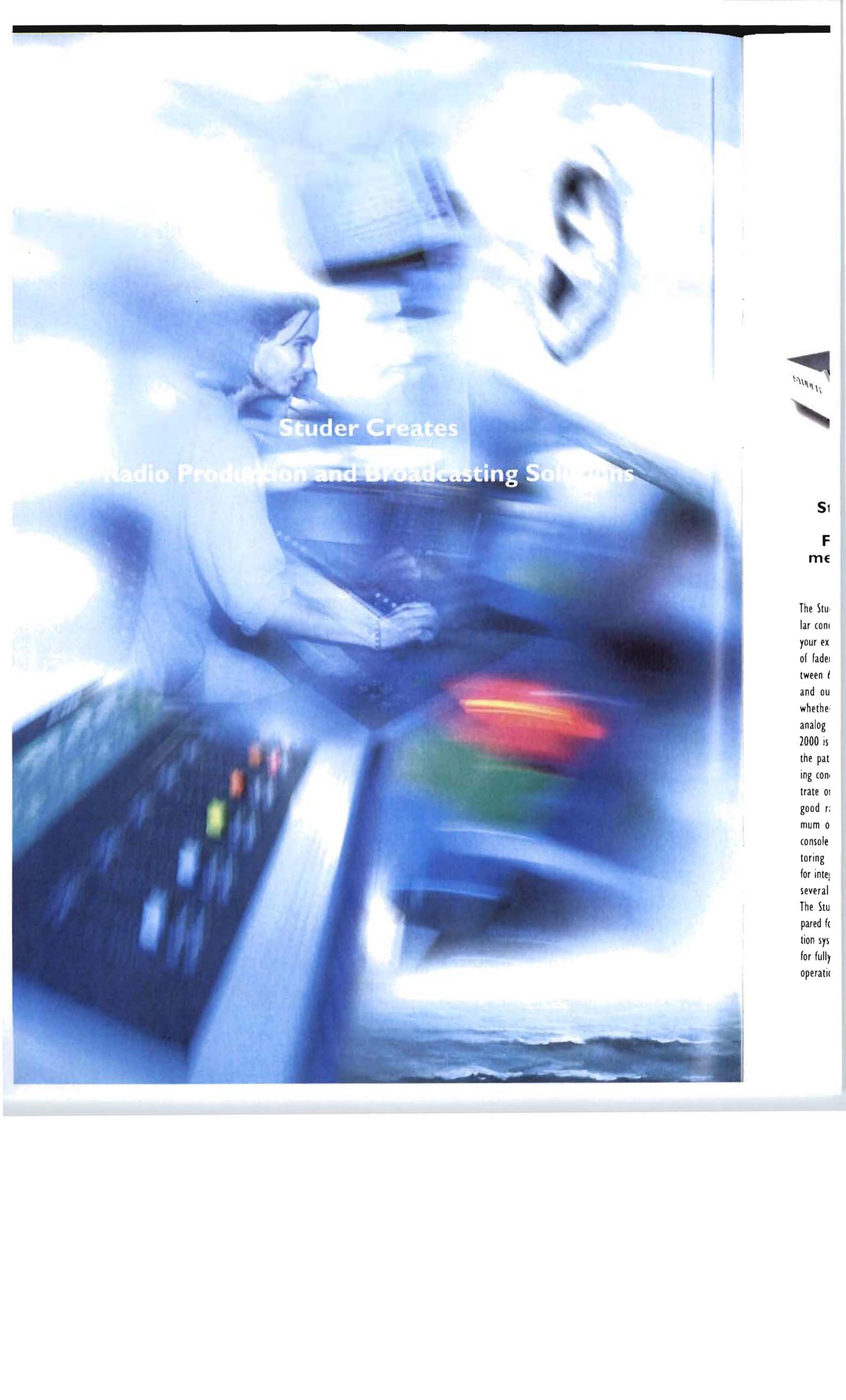
## **Production and Post Production 13**

Consoles - Production and Broadcasting, digital and analog  
Multitrack Tape Recorders: digital and analog  
Routing Systems, Loudspeakers

## **Customizing and System Integration 15**

Routing Systems, Control Systems  
Digital Interfaces, System Components and Accessories  
Analog System Components  
Loudspeakers and Studio Monitors, active

## **Studer Original Equipment 23**



**Studer Creates**  
**Radio Production and Broadcasting Solutions**

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The Studer console provides your exacting requirements for fidelity and output, whether analog or digital. The Studer 2000 is the patented console that concentrates on good recording, minimum console distortion for intelligent editing. The Studer 2000 provides several features for fully automatic operation.

## reliable and future-proof

Studer's digital broadcasting solutions are designed to meet the requirements of today's radio broadcasters: intuitive, flexible and reliable - easy to learn, easy to use and easy to maintain.



### Studer On-Air 2000 Flexibility for medium to large studios

The Studer On-Air 2000 has a modular concept which can be adapted to your exact requirements. The number of fader channels can be chosen between 6 and 24, in units of 6, input and output modules, according to whether specific signal sources are analog or digital. The Studer On-Air 2000 is very simple to use, thanks to the patented „Touch'n'Action“ operating concept. The operator can concentrate on his specific task, making a good radio program, using a minimum of operating elements on the console surface. Comprehensive monitoring and talkback facilities allow for integration into large systems with several studios and control rooms. The Studer On-Air 2000 is also prepared for operation with radio automation systems like the Studer DigiMedia for fully automatic or semi-automatic operation.

### Studer DigiMedia Made by radio professionals for radio professionals

Automation becomes increasingly important when positioning a radio format effectively in the open market. CAB systems (Computer Assisted Broadcasting) give the program director the ability to sequence titles she or he wants to play, the required airplay weighting and time window during the day. A CAB system also helps to improve efficiency and reduce cost as a consequence, decreasing access times to program material by using hard disc digital storage methods. The Studer DigiMedia allows for completely automatic operation, semi-automatic operation or manual use.



Studer DigiMedia is able to interface with a variety of third party studio products, and can fully control the Studer On-Air 2000 digital console.



Ask for detailed product brochures.

**Studer On-Air  
5000**  
Powerful signal  
processing for  
large broadcast  
houses

The Studer On-Air 5000 is based on the core technology of Studer's D950 flagship digital mixing system, combined with a very easy-to-use modular control surface, dedicated to radio use. This combination allows for utmost flexibility and virtually unlimited digital signal processing power. The system can be tailored exactly to the customer's needs in respect of monitoring, metering, signaling and general configuration. Unique to the Studer On-Air 5000 is the MPX (Multiplex Talkback) system, allowing for conference calls for up to 16 outside reporters, the program director and several other signal sources in the background next to the continuity program for preparation purposes.



The control panels may be freely positioned precisely where the user wants them, either in existing studio furniture or on a custom console.



**Studer On-Air  
1000**  
High quality for  
small budgets

Studer's legendary precision engineering is also available to radio professionals in a compact and inexpensive digital package.

The Studer On-Air 1000 is a 10-fader digital console with a large graphical user interface and intuitive ergonomics. Sharing the same operating philosophy and impressive feature set that has made the Studer On-Air 2000 so successful, the Studer On-Air 1000 integrates seamlessly with radio automation systems such as Studer's DigiMedia to provide a complete broadcast solution.



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## reliable and future-proof

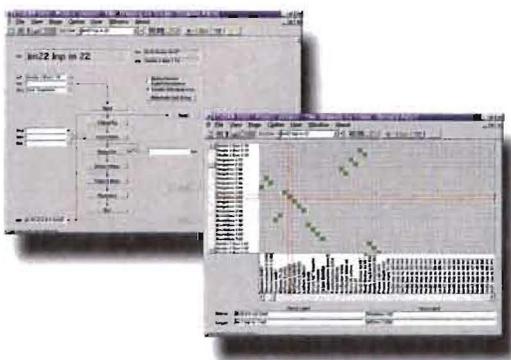
At Studer, we also understand the importance of tomorrow. All our systems architecture is open to further development - easy to expand, easy to upgrade. Because protecting your financial investment is all part of the Studer broadcasting solution.



The Studer D950 M2's flexibility and design allow this console to grow with changes in technology and adapt to different working practices - the ideal future-proof investment.

### Studer D950 M2 Digital flexibility in a variable footprint

Studer's largest digital console has many features to appeal to radio professionals. The Studer D950 M2's control surface can accommodate a large number of physical channel strips and be run in an analog style, or, for the smaller spaces of the radio studio and outside broadcast truck, be configured with a smaller console surface, controlling the audio in layers.



### Studer DI9m

A range of digital modules (cards and frames) that can be used for expanding the interfaces of the Studer D950 and Studer On-Air 5000 digital consoles, or Studer audio routers. They may also be used in standalone applications and provide the „glue“ in digital audio systems. See page 18 for details.

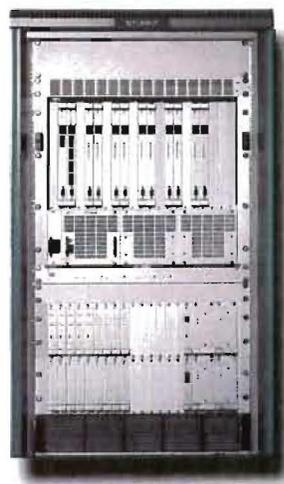
Reliability has been designed into every aspect of the Studer D950 M2. The console uses the Studer DSP Core which has the ability to switch processing automatically to a redundant DSP card in the event of processor failure, while all cards are 'hot pluggable'. There is provision for redundancy in all key areas. Very low power consumption makes the Studer D950 M2 the ideal console for remote trucks.

The console is also fully configurable. So, should the application change or the number of buses or channel processing needs to alter, it is possible to reconfigure the console, entirely under software control.

All the facilities that might be expected in a console of this standard are present - snapshot automation, dynamic automation, full surround mixing and monitoring in all popular formats, clean feeds, comprehensive talkback and monitoring facilities.

### Studer Route 5000

The powerful Studer Route 5000 lies at the heart of most systems in radio broadcasting, handling multiformat switching and distribution of signals. See page 15 for details.



Ask for detailed product brochures.

Analog products such as tape recorders are still valued, even in a digital world. Designed by experts and carefully optimized over many years, the continuity of the 1/4" recorder reflects the very best of Studer.

### Studer A807 Mk II

Studer's tape machines gained unparalleled fame for reliability, flexibility and great audio quality that resulted in over 700'000 units sold over the last 50 years. Designed with application as a priority and built to last under the most demanding circumstances, the Studer A807 Mk II is the essence of optimal tape recorder design.

16 different machine versions for 1/4" tape with more than 100 options ensure complete flexibility in application. Transport case or a trolley with separate meter-bridge, built-in monitor speaker and a selection of remotes are just a few of the possible options.

The renowned sound quality is always there. It's pure Studer.



### Studer A1, A3 and A5

Studer's A Series comprises three high-performance active loudspeakers to cover most monitoring requirements. All models are ideal for professional use. See page 19 for details.



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## reliable and future-proof

For more than 50 years, Studer has developed and built analog circuits and products of renowned quality. Reliability and a high grade of customization have established Studer's analog mixers as the most flexible and versatile in the market. This is underlined by sales of over 11,000 consoles worldwide.

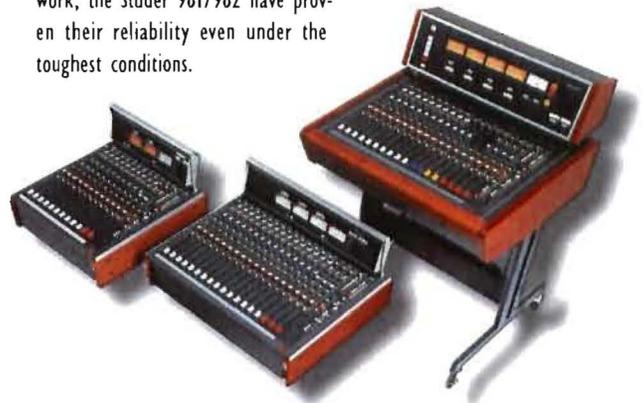


### Studer 928 Worldwide proven analog excellence

The highly popular Studer 928 has a broad range of applications worldwide. With up to 96 channels, packaged in space-saving 30 mm technology, it is used as a broadcast production console or an on-air mixer, as well as in broadcast OB trucks, and as a live console in sports and concert applications. Up to 96 channels, 8 subgroups, 4 master buses and 4 independent VCA groups can be specified. A wide range of metering options are available as standard as is an additional monitor mixer for multitrack recording applications and multichannel surround sound mixing. Customization is part of the concept of this versatile mixer.

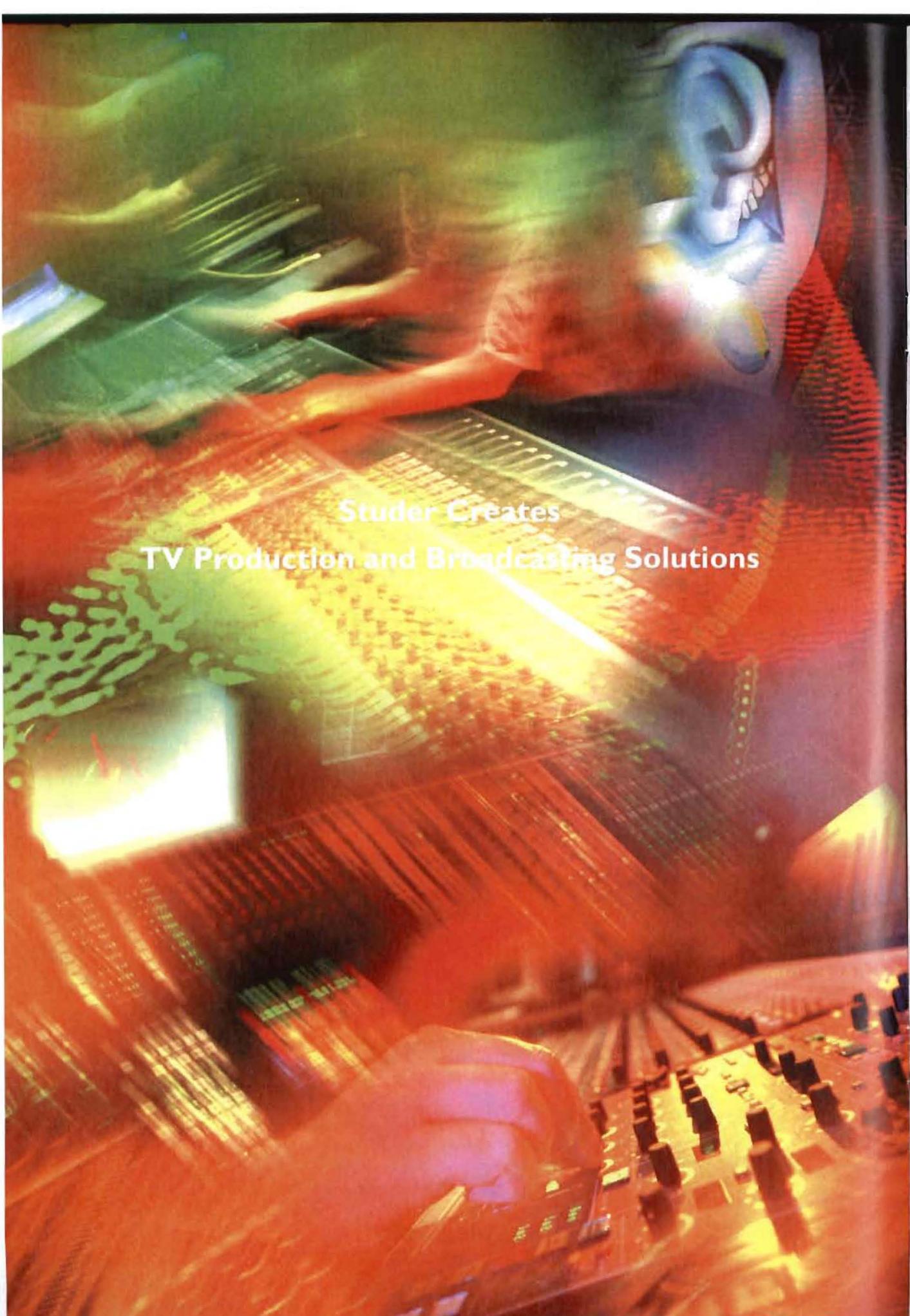
### Studer 961/962

The Studer 961/962 are famous for their superb audio quality. They are modular analog consoles in a portable form for use in any application requiring a versatile compact mixer. Built for the rigours of day-to-day work, the Studer 961/962 have proven their reliability even under the toughest conditions.



The models differ only in frame size and offer 8 to 16 inputs and 2 to 4 master output channels sharing the same application-oriented, simple channel layout. A wide range of accessories including stereo modules, a range of metering options, slave expansion mixer to expand input modules, flight cases and console mounting options are available. Custom-built.

Ask for detailed product brochures.



**Studer Creates  
TV Production and Broadcasting Solutions**

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Studer's digital solutions make sense to today's television broadcasters. Studer systems can be quickly and reliably integrated at every operational level. And, at Studer, we also understand the importance of tomorrow. We have built in the opportunities for expansion and upgrading to new formats. Because protecting your financial investment is all part of the Studer broadcasting solution.



### Studer D950 M2 Simple operation, complex capability

The Studer D950 M2 is Studer's largest digital console and fits naturally into the demanding world of TV production and broadcasting. The control surface allows the console to be run in various ways and its simplicity of operation ensures that the learning curve is minimized.

Configurability is another major feature for TV use. So, should the application change or the number of buses or channel processing needs to alter, it is possible to reconfigure the console, entirely under software control. Based around Studer's DSP Core, the Studer D950 M2 can automatically switch processing to a redundant DSP card in the event of processor failure while all cards are 'hot pluggable', with virtually no interruption of audio.

Multi-format surround sound is becoming critically important to television. The Studer D950 M2 has all the standard surround formats catered for but also boasts the inclusion of Studer's

unique Virtual Surround Panning system, a true audio positioning system which overcomes most limits of today's surround mixing techniques.

The Studer D950 M2's flexibility, reliability, and future expansion possibilities make it an excellent and unique means of handling the complexities of television sound.



The Studer D950 M2 has many unique contributions to make to TV whether in live broadcasting, studio production or in a remote truck.

While not rivalling the convenience and technical finesse of Studer's digital flagship, these analog desks are fully comparable in terms of reliability, excellent sound quality and adaptability to customer specifications.



### Studer 980

The Studer 980 is a digitally-controlled analog production console for TV broadcast and multi-format surround sound productions. The digital control allows for snapshot automation with saving and recall of all data onto on-board memory and user identification via personalized memory card system. Considerable provision for adapting the Studer 980 to specific customer needs is offered by many optional modules and specially designed hardware.

range of metering options are available as standard as is an additional monitor mixer for multitrack recording applications and multi-channel surround sound mixing. Customization is part of the concept of this versatile mixer. The Studer 928 can also be equipped for multi-format film or TV surround productions.

### Studer Route 5000

With a large number of audio sources and destinations, internal or external, a versatile router is an essential part of a TV studio. See page 15 for details.

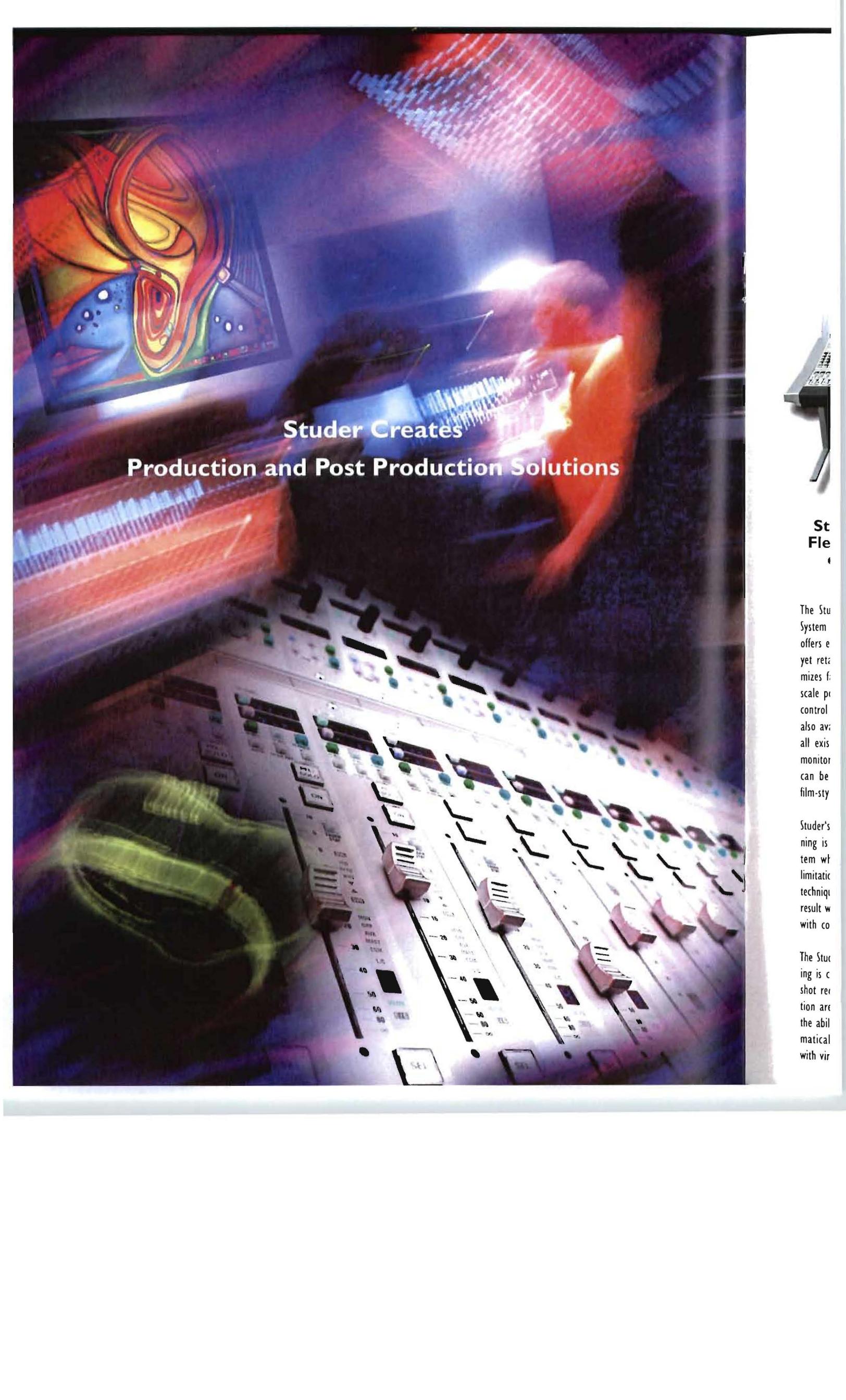
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### Studer A1, A3 and A5

Studer's A Series comprises three high performance active loudspeakers to cover most monitoring requirements. All models are ideal for professional use. See page 19 for details.

Ask for detailed product brochures.



**Studer Creates  
Production and Post Production Solutions**

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# sound with the power of picture

As digital television becomes a reality, postproduction in surround sound becomes an essential. With over 11,000 analog and digital consoles installed worldwide, Studer has the experience to offer the finest surround sound solutions to postproduction facilities. Studer systems deliver the creativity and flexibility to make sound as powerful and colorful as picture.



## Studer D950 M2 Flexible, versatile, configurable, practical

The Studer D950 M2 Digital Mixing System is a large-format console that offers extreme flexibility in operation yet retains an ease of use that minimizes familiarization time. For large-scale post production work, a larger control surface for dual operation is also available. The mixer can handle all existing and future multi-format monitoring standards. An RCU panel can be fitted which adds standard film-style PEC/DIRECT switching.

Studer's unique Virtual Surround Panning is a true audio positioning system which overcomes most of the limitations of today's surround mixing techniques. VSP improves the creative result while saving time when dealing with complex surround effects.

The Studer D950 M2's channel processing is comprehensive, and both snapshot recall and full dynamic automation are available. The DSP Core has the ability to switch processing automatically to a redundant DSP card with virtually no interruption of audio.

**STUDER**   
VIRTUAL SURROUND PANNING

Through its design, the D950 M2 will be able to fulfill whatever abilities the post production industry requires.

## Studer 980

A digitally-controlled analog production console for multi-format surround sound productions. See page 11 for details.

## Studer 928

A flexible analog mixing console providing a comfortable channel strip layout in a very compact design, ideal for smaller postproduction application. See page 9 for details.

**Recording workhorses with superior sound quality and unparalleled reliability, ideal for the most demanding.**

## Studer D827 Mk II

The Studer D827 Mk II digital multitrack tape recorder, available as 24- or 48-track, represents one of the fastest and most convenient methods of handling large numbers of digital audio tracks. A wide range of options can be added to enhance or extend performance as needed. It is the most sophisticated way to record digital audio.



## Studer A827 Gold Edition

The Studer A827 Gold Edition 2" 24 track recorder packs 50 years of Studer know-how into one single package. It is acclaimed as the best analog multitrack recorder ever made.



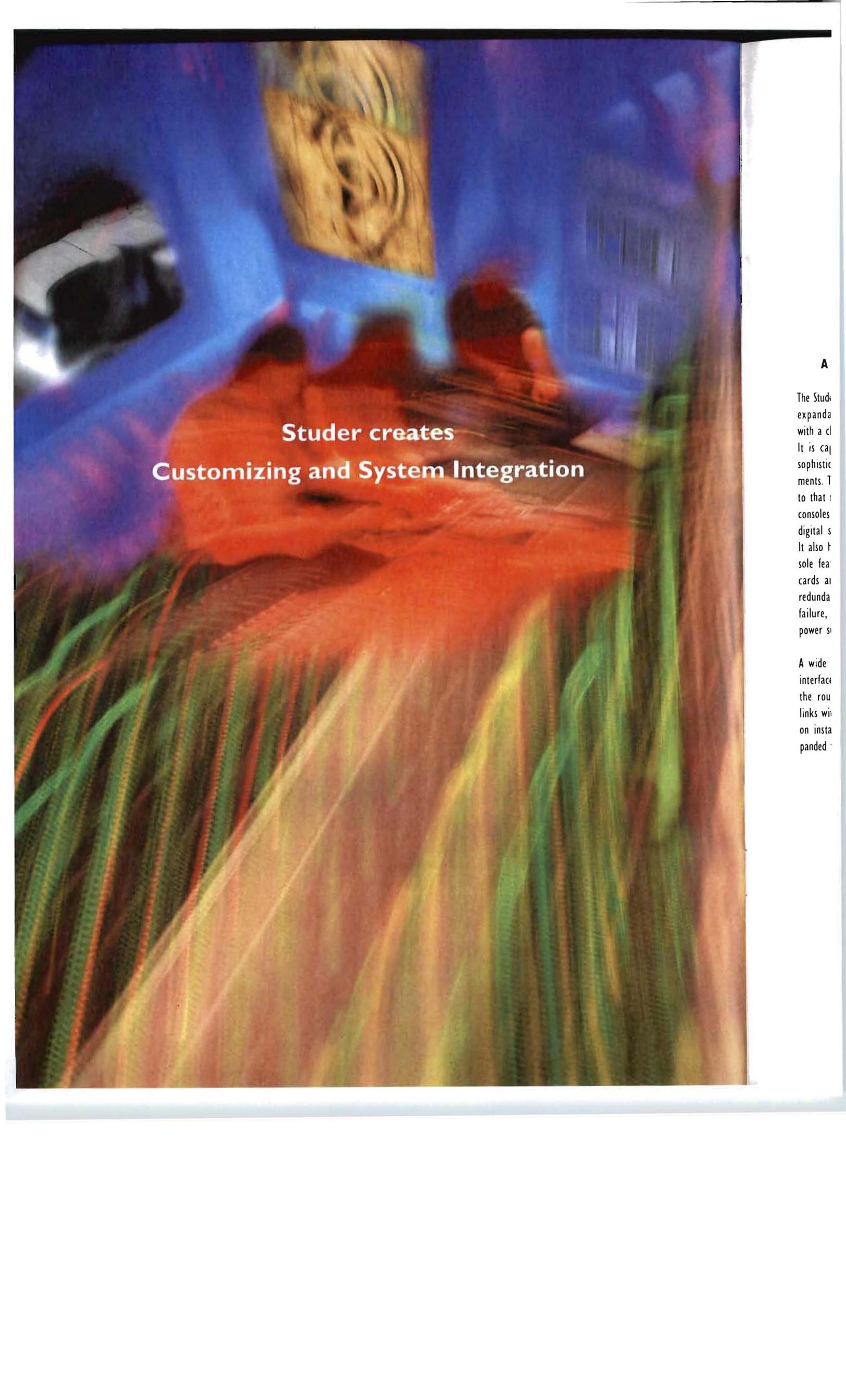
## Studer Route 5000

With a large number of audio sources and destinations, internal or external, a versatile router is an essential part of a postproduction studio. See page 15 for details.

## Studer A1, A3 and A5

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Customizing and System Integration**

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## your input shapes our output

Studer's turnkey solutions for radio and television broadcasting incorporate not only the highly visible mixing consoles and monitor loudspeakers, but also the invisible but critical routing systems that are at the heart of any installation. Easy to program, the Studer Route 5000 allows the maximization of studio resources, and its easy upgrade path ensures it keeps pace with technology changes.



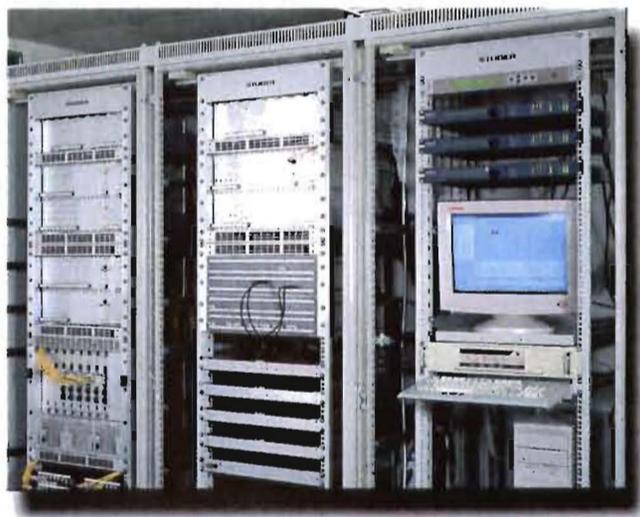
### Studer Route 5000 A new concept in digital signal distribution

The Studer Route 5000 is a TDM based expandable digital routing system with a clear structured control system. It is capable of handling the most sophisticated of operational requirements. The use of a DSP Core similar to that used in Studer digital mixing consoles, allows routers a variety of digital signal processing to be used. It also has all the Studer digital console features of 'hot pluggable' DSP cards and automatic switch-over to redundant DSP cards in the event of failure, backed up by a redundant power supply.

A wide range of analog and digital interfaces are available. They link to the router core using fiber optical links with the addition of cost saving on installations. The core can be expanded to handle a maximum of over

1100 I/Os. The Control System is based on a PC platform and ethernet network, and is also capable of controlling video switcher and other non-audio signal switchers, making this a versatile addition to any single or mixed media environment. All workstations connected to the system may display and control all or part of the switching available.

Easy programmability of the system allows maximization of studio resources in any environment while the provision of DSP facilities creates an entirely new concept of the router's role. And the totally modular nature of both hardware and control system ensures a steady upgrade path as technology changes, thereby offering a future-proof investment.

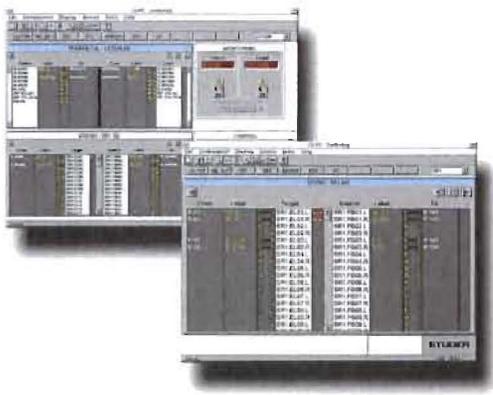


The impressive broadcasting house of Cesky Rhozhlas Praha in Prague was completely designed and built under the responsibility of Studer as General Contractor. A total of 16 Studer On-Air 2000 digital mixing consoles and 6 DigaStudios mixing consoles / edit workstation controls distributed among 20 control rooms and a journalists' production suite are connected through a large Studer Route 5000 (288 inputs, 472 outputs) in the master control room and four Studer Route 56, which form the audio-technical backbone of the operation.

Ask for detailed product brochures.

## Studer CS-PC Controller

An open architecture Control System for the Studer Route 5000 based on a PC platform and using an ethernet network. It has an easily-understood operator interface with password-protected levels of access to an entire Studer Route 5000 system installation including switching presets, control of integrated processing and time scheduled switching of routing configurations. It may also be used to control other forms of signals including video, signalling and others.

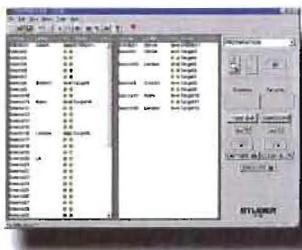


## Studer CS-Panel XY Studer CS-Panel XN

Control panels which enhance the operation of the Studer Route 5000 and Studer Route 56. Ideal for areas and workplaces where no PC screen is suitable or where a dedicated push-button unit has to be chosen for ergonomic reasons. An unlimited number of inputs can be routed either to an unlimited or a defined, limited number of targets.

## Studer CS-56 Controller

A PC based Control System for the Studer Route 56 routing matrix, with many of the features used in the larger router control systems.



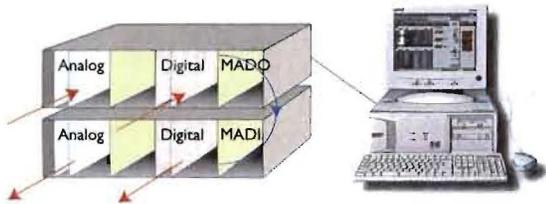
## Studer CS-Controller LXB

Ergonomically-shaped controllers giving direct access to a defined number of sources for monitoring purposes. The table-top controllers in slim-line design fit perfectly in just about any environment and ensure direct and easy access. A total of 20 pushbuttons can route 20 sources for monitoring purposes, either with or without headphone outlet on the unit itself. Connected via RS485 to the server.



## Studer Route 56

A simple compact router handling a maximum of 56 inputs and 56 outputs. Derived from the larger Studer Route 5000, it uses the same interface cards but has no DSP core and therefore no DSP functions.



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# your input shapes our output

Studer's definition of the turnkey solution incorporates all the vital components of a system. Ultra-precise peripherals offer the highest level of reliability, ensuring failsafe operation throughout the whole system. Which means you are getting the maximum return on your investment.



## Studer DI9 Series

A range of digital problem-solving units that can be interfaced with Studer digital products or wherever required within a larger installation.

### Studer DI9 MasterSync

An essential part of a larger digital audio installation, the MasterSync combines digital clock generation with clock distribution capabilities. The generator can be synchronized with external video, AES/EBU or Wordclock signal, or use its accurate internal reference to generate clock rates at five frequencies between 32kHz and 48kHz. The built-in distribution amplifiers supply six wordclock outputs and up to 16 AES/EBU reference signals.



### Studer DI9 MultiFeed

Digital clock and AES/EBU signal distribution system with similar features to the Studer DI9 MasterSync but without the digital clock generation facility. The 16 AES/EBU outputs can be used individually (in groups of four) for AES/EBU signal distribution or reference signal distribution.



### Studer DI9 Echo Canceller

Digital processor designed to suppress echoes and delays in live broadcasting situations where audio signals, delayed after digital transmission. This prevents the use of the broadcast signal as a monitoring source. Echo signals delayed by up to a second can be processed.



### Studer Telephone Hybrid

Digital unit providing bi-directional interface between mixing console and standard telephone line. Handles telephone-to-studio line switching, and signal processing to remove line echoes in auto or manual modes, while compensating for level fluctuations. Complies with regulations of major telephone companies.

Ask for detailed product brochures.

# your input shapes our output

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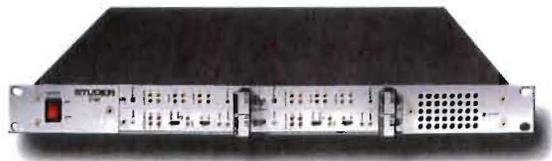
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Ask for detailed product brochures.



## Studer D19m

A range of digital modules that can be used for expanding the interfaces of the Studer D950 and Studer On-Air 5000 digital consoles, or Studer audio routers. They may also be used in standalone applications. Two mounting frames are available as part of the Studer D19m range - a 3U 19 inch rack that holds 16 cards, and a 1U 19 inch rack that holds 4 cards. Both are equipped with power supplies. Further details on these racks and series of cards can be found in the Studer D19m brochure, available on request.

The Digital System Component cards can interface a minimum of 4 channels, some up to 8 - an overview:

- A/D and D/A converters  
A/D also with noise shaper
- AES/EBU inputs and outputs  
AES/EBU inputs with SFC
- TDIF format input and outputs  
also with AES/EBU interfaces for standalone use
- ADAT format input and outputs  
also with AES/EBU interfaces for standalone use
- MADI format fiber optic inputs and outputs  
MADI input also with through port
- MADI format coaxial inputs and outputs
- Microphone preamplifier and separate remote control interface

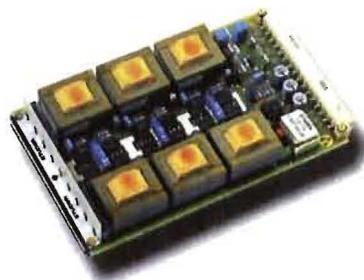


## Studer Analog System Components

When installing a complete studio system, or even a single piece of equipment, there is often a need for additional components to handle specific functions not addressed by the major items of equipment. Studer have two ranges of analog modules to meet such requirements - both designed to be used within an Eurocard Format frame. A selection of Eurocard frames, in 3U and 1U sizes, together with power supplies, transformers, card mounting kits, rear panels and accessories complete this range. A summary of the available modules and cards is given below. For more details please request the full Analog Modules brochure.

Individual cards for direct mounting in Eurocard format frame - an overview:

- Power Supplies and Regulators
- Test tone generator card
- Monitoring preamplifier and monitoring relay cards
- Distribution amplifiers
- Power amplifier from 3 to 40 Watts
- Signalling relay card
- Dual limiter card
- Equalizer cards, 3-band parametric
- Balancing amplifier
- MSC Miniature Cards - more functions in a small space. Up to four can be fitted on an MSC Eurocard which is then placed in a Eurocard rack - an overview:
  - Eurocard and universal support cards
  - Line output amplifier
  - Line level input cards, wide selection
  - Microphone preamplifiers
  - VCA cards, modules and interfaces
  - Limiter
  - Relay cards
  - Flip-flop unit
  - 90 degree filter for mono summing
  - Detector cards for level and overload



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# input equals output

Studer's definition of the turnkey solution extends to and includes high-definition active studio monitors, designed to meet the requirements of surround sound formats as well as standard applications.



## Studer A Series Precision monitoring for any application

Studer's A Series comprises three high-performance speakers to cover most monitoring requirements. All are active designs with low distortion and flat frequency response, both on and off-axis. The use of group-delay compensated crossovers and power amplifiers with negative output impedance gives precise stereo imaging and an accurate impulse response. All models are ideal for surround sound monitoring and may be used in different combinations while still maintaining a correct phase relationship.

### Studer A1

Compact and practical 2-way active design ideal for close-field monitoring or use in small spaces. It is portable and easily mounted on stand or from ceiling using metal bracket. Comes fitted with a front panel volume control.



### Studer A3

High-performance active 2-way monitor for near-field monitoring use. Wide frequency response and high power handling. Prepared for stand or ceiling mounting.



### Studer A5

A high-precision monitor system suitable for the most demanding of applications. The Studer A5 is notable for delivering performance beyond what may be expected of a medium-sized monitor and is capable of maintaining a high SPL over its full frequency range. Carefully matched HF units, and the ability to adjust the position of the HF and MF front section, allow optimised response whether used horizontally or vertically.



Ask for detailed product brochures.



Dome Audio Video & Effects DAVE in Toronto, Canada.  
Studer D950 used for IMAX film sound mixing.



Cesky Rozhlas Praha in Prague, Czech Republic.  
Studer Route 5000 and 16 Studer On-Air 2000, complete radio broadcasting house installed by Studer as general contractor.



Pinewood TV in Iver Heath, Great Britain.  
Studer D950 M2 for television production.



Example of a custom project:  
The faderbox inside the studio controls the dedicated channels ...



... of the Studer On-Air 2000 in the control room  
(Cesky Rozhlas Praha).



Radio Suit  
One of 22  
broadcast  
Control R



**Solutions provided by Studer have satisfied hundreds of professionals. Every system, in fact even most of the standard products, have been customized to meet user's specifications and needs. Precision engineering tailored to application is the key to Studer's success.**



Radio Suisse Romande in Lausanne, Switzerland.  
One of 22 Studer On-Air 2000, used in production and live radio broadcasting in conjunction with a CAB System and an all digital Master Control Room from Studer.



Disney i.d.e.a.s. in Orlando, USA.  
First Studer D950S installed at Disney i.d.e.a.s., second studio equipped with Studer D950 M2, both are used in post production.



TVC Yamamoto in Tokyo, Japan.  
Studer D950, used in video post for television.



Egyptian Radio and Television Union in Cairo, Egypt.  
Studer D950 and Studer D827 MKII digital 48 track recorder, used for music production.



Buying Studer Means Buying Original Equipment

STUDER

For some, the name of Studer carries with it a worldwide reputation for quality and reliability. To others, the name suggests high technology and innovation. To many, the Studer name is synonymous with providing solutions - in Radio, in Television, and in Post Production - either in the form of dedicated products or complete custom-made systems.

For over 50 years, Studer's commitment to continuous investment in R&D has made it a world leader in both analog and digital audio technology. Spending a considerable amount of turnover on research has been justified by the award of over 20 technology patents, and, more importantly, it has given Studer the engineering and design skills to turn these technologies into innovative and unique products.

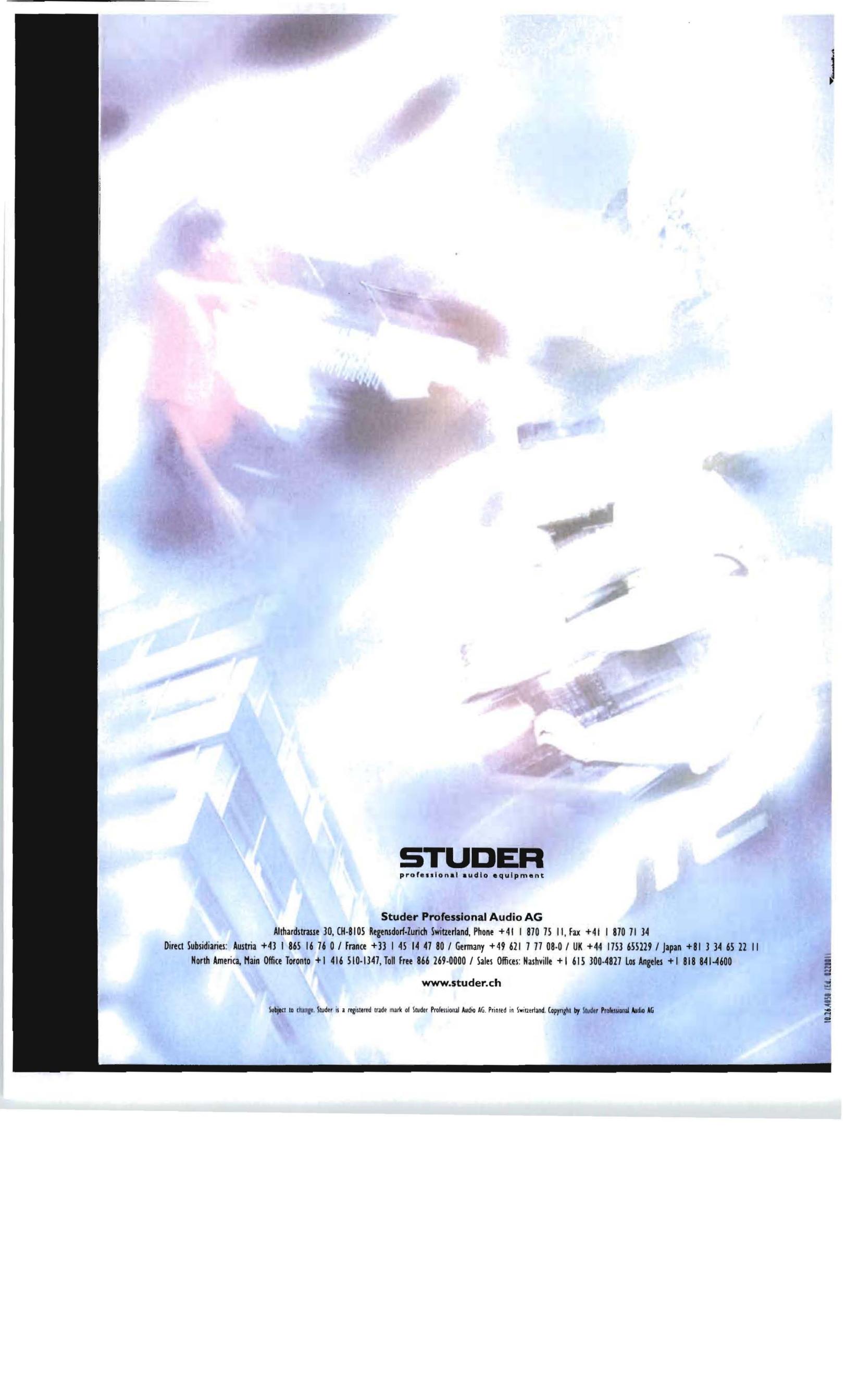
If you are looking for technical solutions, ergonomic solutions, speed-of-operation solutions and future-proof solutions, we can offer them. Because of our experience in assembling complete systems, we also know about the smaller items that make the products work together, in both the analog and digital domains. All developed and manufactured in Switzerland.

Studer prides itself on maintaining close contact with its customers at all stages and for all technical needs, from initial consultancy, planning, installation and training, through to maintenance, repair, spare parts, upgrading and technical support. Being an engineering company, we also have the expertise to customize our products to meet specific customer needs. Customization is one of our strengths and an integral part of our business.

**More information?**

**Ask your Studer representative for detailed product information on any of the products in this brochure, or if you would like to discuss what innovative solutions Studer may have for you.**





**STUDER**  
professional audio equipment

**Studer Professional Audio AG**

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