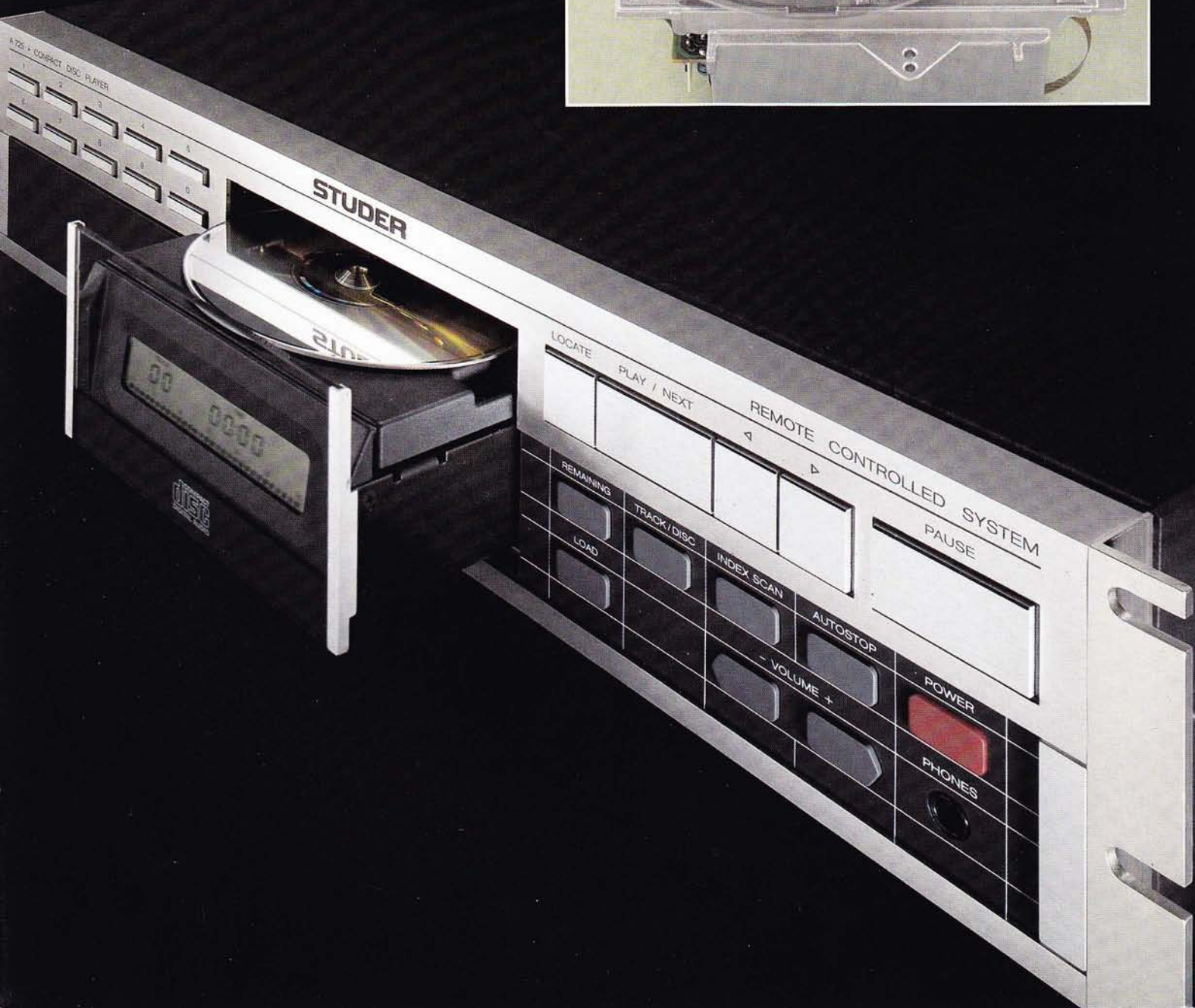
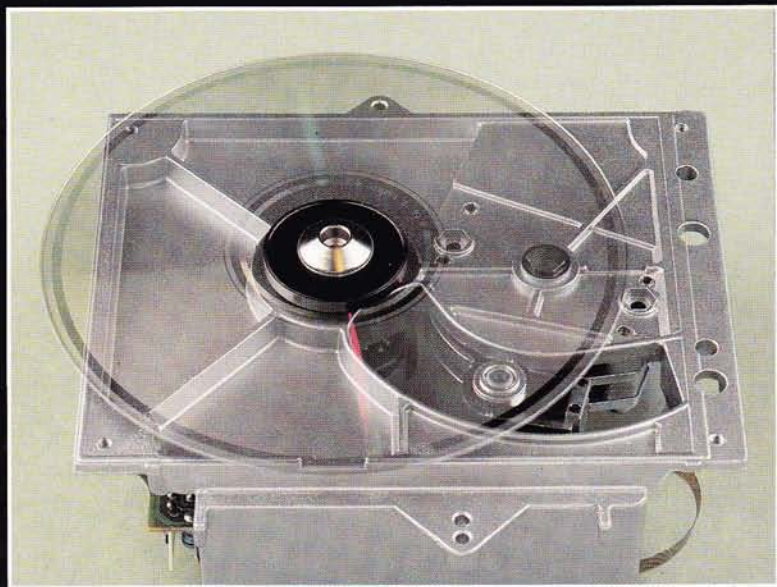


STUDER

A725 Professional Compact Disc Player



Studer A725 – The alternative!

Professional quality for professional requirements



STUDER A725: ergonomic and uncomplicated operating with large-surface keys for the primary functions.

A725 – THE SENSIBLE SOLUTION TO THE CD DILEMMA

Sooner or later every radio station will have to consider the evaluation criteria for a CD player. Without doubt the question concerning the professionalism of its design will present itself.

Like with other audio equipment, judging the professionalism by the audio quality alone would not lead to meaningful results. The choice was limited to buying either CD players designed for hi-fi home use or very expensive CD systems.

This is how it was in the past. But now there is the STUDER A725. As you know it has been a long-standing tradition at Studer to offer truly professional solutions. And this solution is just as sensible as it is elegant: the A725 features uncompromising professional quality combined with the flexibility for upgrading to user-expandable systems.

THE PROFESSIONAL CONCEPT

The hi-fi version of the A725, the Revox B225 has already established itself as a CD player of the top premium category. It is rated as a professional unit and is used by broadcasting stations. The fully professional A725 therefore benefits from this situation, is reasonably priced,

and offers even more features for professional requirements. In addition the A725 is designed to function in a future computer-controlled multi-CD system – the corresponding interface as well as the following design characteristics are part of the future-safe concept:

- Short access times (average less than 1 second)
- Direct track and index selection
- Accurate and practical CUE facilities
- Balanced output stage with transformer and XLR sockets (optionally available in transformerless version)
- Fader start
- Extremely stable transport mechanism with die-cast aluminum alloy chassis
- Brushless CD motor with non-contacting servo control via Hall elements
- Short starting time (typical 0.3 s from PAUSE)
- High starting accuracy of ± 1 frame (13.3 ms)
- Built-in digital level calibration generator
- Phase-linear oversampling principle
- Full mono compatibility by means of two separate D/A converters (essential for broadcasting applications)

- All printed circuit boards are of the plug-in type; no alignment necessary, offering simple maintenance
- Test CD and other accessories available for maintenance

ERGONOMICALLY OPTIMIZED OPERATING

The controls are ergonomically arranged for professional requirements. Large metal keys are available for the most frequently used CUE functions; with a STUDER CD player you can forget about miniature keys that you can't find in semidarkness!

The secondary function controls are grouped in the lower right field; the lower left field contains the controls for the comprehensive programming functions (since these functions are less frequently required in professional applications, this field can be completely covered with a metal shield).

PRACTICAL CUE FUNCTIONS

The A725 features special software for controlling the accurate CUE functions. The access times, start times, and starting accuracy satisfy professional requirements. Cueing and starting is performed with the minimum of key strokes.

MULTIFUNCTION LC DISPLAY

One of the outstanding features of the A725 is the logical implementation of its controls. Only two buttons need to be pressed for quickly and accurately retrieving the elapsed time per track or disc as well as the remaining time per track and disc. In addition a bar graph indicates the approximate time in analogous form.



Track elapsed time



Track remaining time



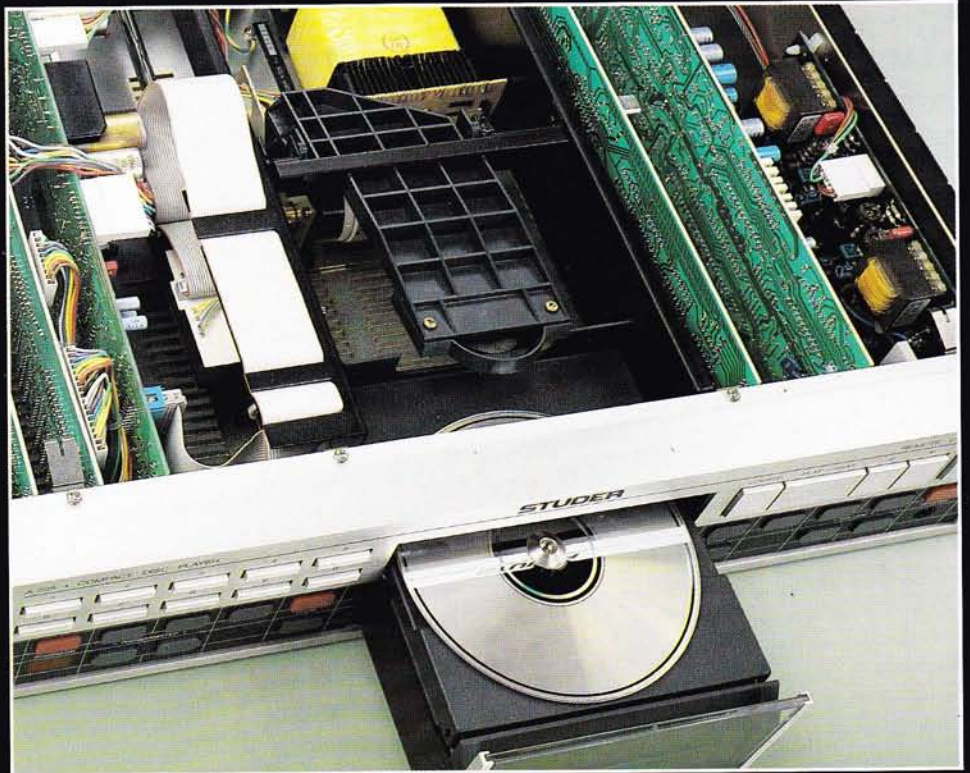
Disc elapsed time



Disc remaining time

HIGHEST AUDIO QUALITY

The A725 operates according to the oversampling principle (176.4 kHz) and uses a combination of digital and analog filters for ultimate top audio quality.



Professional design with plug-in PCBs and microprocessor board specifically developed for the A725.

REMOTE CONTROL SYSTEM WITH STATUS FEEDBACK

All essential control commands can be transmitted through a serial remote control system (SERIAL LINK); functions and display data can be retrieved.

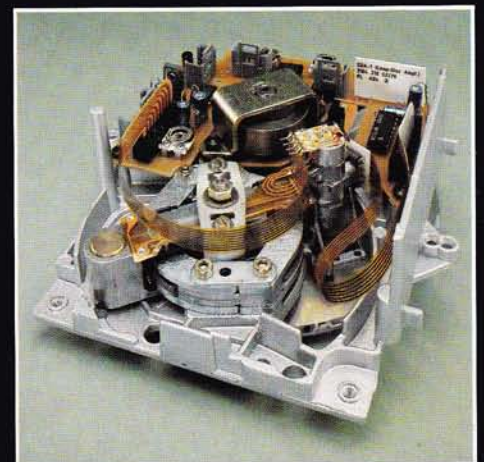
decoder PCB that features an output for further processing of the signals to be checked.

A725 QUALITY CONTROL CD PLAYER IN SPECIAL QC VERSION

For testing the block error rate of discs, the A725 QC is equipped with a special



Sockets for audio and control signals: balanced XLR, unbalanced CINCH fixed and variable level, as well as fader start and remote control.



Highly rigid design of the A725 transport mechanism on die-cast aluminum alloy chassis and with brushless, half-commutated DC motor.

Technical data

AUDIO-DATA

Number of channels:	2
Frequency response:	20 Hz ... 20 kHz, +0/-0.6 dB
Harmonic distortion:	< 0.006 % (20 Hz ... 20 kHz)
S/N ratio, linear:	> 94 dB (20 Hz ... 20 kHz)
S/N ratio, weighted:	> 100 dB (corresponding to IEC179, A curve)
Channel separation:	> 90 dB (10 kHz)
Output level:	
- AUDIO OUTPUT FIXED	2 V, $R_i < 500$ ohms, short-circuit proof
- AUDIO OUTPUT VARIABLE	0...2 V, $R_i < 500$ ohms, short-circuit proof
- AUDIO OUTPUT LINE	+15 dBm, (at 0 dB, $R_i = 600$ Ohm), adjusting range 3 ... 15 dBm, $R_i < 50$ ohms
Phones output:	4.5 V, $R_i < 50$ ohms, short-circuit proof
Channel balance (L/R):	< 0.2 dB
Phase linearity through digital filtering (oversampling)	
Mono compatibility through separate D/A converters L and R	

OPTICAL SYSTEM

Sampling frequency:	44.1 kHz
Quantization:	16 bit linear/channel
Pickup:	AlGaAs semiconductor laser
Wave length:	0.78 μ m
Error correcting system:	CIRC (Cross Interleave Reed Solomon Code)
Preemphasis:	50/15 μ s, selected automatically by the subcode on the CD

DISK DRIVE / CONTROL

CD-rotation speed:	500 ... 200 rpm
Scanning velocity:	1.2 ... 1.4 m/s
Wow and flutter:	quartz crystal precision
Maximum playing time:	74 minutes
Starting precision:	± 1 Frame (13.3 ms)
Start delay from pause:	< 0.6 s
Search time for any location:	< 3 s

DISPLAY

Multifunction LC display supplies the following status information:

TRACK:	the current position can be determined either from the displayed TRACK number or the 30-segment bar
INDEX:	indices are displayed automatically
TIME:	either time can be read out: TRACK ELAPSED TIME TRACK REMAINING TIME (up to track 37) DISK ELAPSED TIME DISK REMAINING TIME

PAUSE, AUTOSTOP, LOOP:	special operating modes are indicated
PROGRAM MODE:	each program step is indicated with a resolution of one second

PROGRAMMING FACILITIES

Number of program steps:	19
Content of program steps:	TRACK, TIME or mixed
Programming methods:	keyboard entry or setting of marks
Step resolution:	each step can be defined with a resolution of one second
Special functions:	special functions such as LOOP, PAUSE, etc. can be programmed

GENERAL

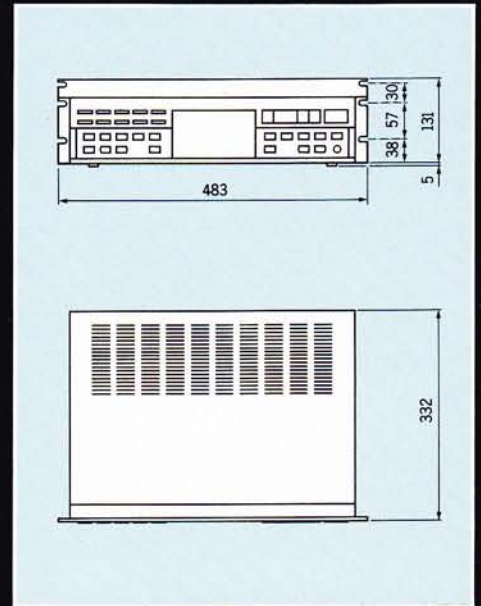
Power requirement:	100/120/140 V, 200/220/240 V ± 10 %, 50/60 Hz adjustable on voltage selector
Power fuses:	100 ... 140 V = T 500 mA slow 200 ... 240 V = T 250 mA slow
Power consumption:	40 Watt max.
Dimensions:	450 x 109 x 332 mm (w x h x d)
Weight:	8.5 kg

SPECIAL VERSION

A725 with line output trafoless

Adjusting range
AUDIO OUTPUT LINE: 0 ... 18 dBm

The other technical data are the same.



Dimensions (mm)

Ordering information

A725 Professionel	
Compact Disc Player	60.077.69590
PCB line output trafoless	1.769.275.00

Maintenance accessories

Test CD frequency response	10.241.023.00
Test CD drop-outs	10.241.025.10
CD for adjusting the optical system	10.241.029.00
Mirror for adjusting the optical system	10.241.029.50
Set of service PCBs and cables	1.769.487.00
Measuring filter for laser focus	10.023.042.00
Torx key No. 8	10.258.003.44
Torx key No. 10	10.258.003.46
Adhesion magnet for operating the transport mechanism with opened drawer	10.241.030.00

Sales Offices:

Australia, North Sydney 4064700. **Austria**, Vienna 47 33 09 / 47 34 65. **Belgium**, Bruxelles (02) 735 21 93. **Canada**, Toronto (416) 423-2831. **Denmark**, Gentofte 451652340. **Finland**, Helsinki 80/742133. **France**, Paris (1) 533 58 58+. **Germany**, Löffingen 07654/1021. **Great Britain**, London/Herts. 01-9530091. **Hong Kong** 5-441-310 / 5-412-050. **Italy**, Milano (02) 7384751. **Japan**, Tokyo 03-320-1101. **Netherlands**, Gennep 08851-11956. **Norway**, Oslo (02) 356110. **Singapore** 2507222/3. **Spain**, Madrid 2317840. **Sweden**, Solna 08/7340750. **USA**, Nashville (615) 254-5651. **Worldwide**: Studer International AG, Regensdorf, Switzerland, (01) 840 29 60.

Some photos show options offered at additional cost.

We reserve the right to make alterations as technical progress may warrant.

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