

Microprocessor-controlled learning laboratory AS 100 Mk II

ASC, founded in 1964, is a pioneer in the field of Communications Engineering Technology and is today one of the World's leading producers of professional Learning Laboratories and Multi Media Systems. Almost 70 percent of ASC products are exported to over 60 countries worldwide. A high percentage of ASC's annual turnover is reinvested for research and development and with its renowned reputation for manufacturing efficiency, the highest quality of innovative electronic and mechanical design is ensured to meet the growing demands from discriminating customers throughout the world. Since the foundation of ASC well over 8.000 systems have been delivered by ASC. The delivery range of educational products comprises computer workstations, microprocessor-controlled Language Laboratories as well as fully equipped Multi Media Systems with interactive Multi Media software. Unquestionably, language learning laboratories have contributed toward great improvements in education technology and the mastering of foreign languages in past years, making individual learning progress highly motivated and achievable. In a modern learning laboratory students can study foreign languages in an undisturbed atmosphere of privacy enabling them to overcome any speech inhibitions they may have. With the versatile training possibilities available, students need no longer be restricted to perform basic exercises, but can progress at their own pace. This, together with the opportunity for direct comparison with original speech enables students to detect and correct their own mistakes. The teacher can intervene at any time in order to monitor students discreetly and provide appropriate help if required.

A major advantage of the microprocessor-controlled Learning Laboratory AS 100 is the easy operation of the system. All operating elements for functions which are used most often are clearly arranged so that just the press of a button is required to start any desired function.

The learning system AS 100 can be used as Flush mount-version for static installations as well as Desktop-version for mobile installations wherever required. In order to achieve highest possible flexibility, all the user needs to provide is one mains socket and the system is ready for operation. The ASC sales representative will inform you about the various features.

- Latest generation of microprocessor technology
- Simultaneous transfer of up to 2 programmes to students
- Control panel for up to 56 student positions (Flush mount-version) or 20 student positions (Desktop-version)
- Master console with lockable storage compartment for up to 20 cassette recorders, headsets and connection cables (Flush mount-version)
- Ease of use through tactile operating buttons

- Image of original seating arrangement in class room control panel (Flush mount-version)
- Mixed configurations of AAC-recorders and AA-positions possible
- Individual programme source selection for each programme group
- "Fixed Pairing"-function
- Partner work in conference mode
- Copying between the master cassette recorders
- Programme dubbing from an external source
- Assignment of students to a self study group (library)
- Monitoring, two-way-conversation, All Call
- Recording of selected students voice and as signed grade directly on the masters recorder
- Connecting facilities for up to 4 external sources

The AA-student position consists of a control panel with separate volume control for both the programme and the student's voice, a teacher call button and a light-weight, yet exceptionally durable microphone headset combination.

The AAC-student position consists of the versatile recorder AS 100, which can be delivered in Flush mount-version for static installations or in Desktop-version for mobile installations and a light-weight, yet exceptionally durable microphone headset combination. Nearly 40 years of experience with Language Laboratories has proved that only cassette recorders with a unique four (4) motor drive mechanism can offer dependability with constant and prolonged daily use. For this important reason the AS 100 system is equipped with the most reliable four motor drive mechanism which eliminates such wearing pads as belts, clutches and pulleys. Without these wearing parts long-term maintenance costs are significantly reduced.

- 4-motor direct drive tape transport
- No wearing parts such as belts, clutches and pulleys
- Soft touch cassette eject mechanism
- Opto electronic cassette scanning
- Automatic repetition (A/B-repeat)



- Large multi-function display for counter and operating functions
- 4 digit real time counter
- Automatic tape positioning after rewind and automatic resetting of the counter
- Digital volume control individual for teacher and students track
- Logically grouped and color coded operating buttons

Furniture Options

Individual Student workstations are available with a number of furniture options, in terms of material, colour and design and can be configured in many different ways. Any combination of open plan and booth construction designs may be assembled to meet individual requirements. Whether you wish to create an individual executive learning environment, or a multifunctional communications Laboratory, then the AS 100 system can be designed to meet any specification, within the confines of available space. The very modern design, with its neutral colours, was specially developed for use in universities, colleges, schools, etc. The laminated surface is extremely strong and scratchproof. If required, partition walls and glass front screens can be supplied for the acoustic and optical separation of the student positions.

Technical Data

Master Console AS 100 Mk II

Student capacity:	56 students max. (Flush mount) 20 students max. (Desktop)
Power requirements:	110/220/240 V AC \pm 10%
Power consumption:	for 24 students 500 VA
Safety classification:	VDE 0551
Operating temperature:	5-40 degrees centigrade ambient
Dimensions:	1334 mm x 851 mm x 759 mm (Flush mount) 475 mm x 150 mm x 350 mm (Desktop)

Signal input

Aux:	77,5 mV - 10 V / 100 kOhms
Radio:	15 mV / 33 kOhms
Tape:	775 mV / 100 kOhms
Phono MM:	2,0 mV / 47 kOhms, acc. RIAA
MIC:	0,5 mV / 200 Ohms

Signal output

External speaker:	25 W into 4 Ohms
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Cassette recorder

Power supply:	24 V AC/24 VA
Operating temperature:	5-40 degrees centigrade ambient
Track configuration:	2 track/2 channel acc. DIN 45 471/2 or 4 track/2 channel
Speed:	4,76 cm/s (1 7/8 ips) \pm 1 %
End stop:	Automatic, microprocessor-controlled
Wind/rewind time:	40 sec/C 60
Tape counter:	4-digit LCD „real time“,
Frequency response:	30-12.500 Hz \pm 3 dB
Wow and flutter:	< 0,12% (DIN 45 507 wtd.)
Signal to noise ratio:	(weighted A-Curve) 52 dB (A)
Erasure:	better than 65 dB (both tracks)
Motors:	4
Tape transport:	direct drive, with brush less capstan motor-PLL-controlled (no belts or pulleys)

Microphone Headset

Microphone

Frequency response:	200-15.000 Hz
Characteristic:	Dynamic, directional
Sensitivity:	1,2 mV / Pa
Impedance at 1 kHz:	200 Ohms

Headphone

Frequency response:	20-18.000 Hz
Impedance:	2 x 400 Ohms
Sound pressure level:	96 dB
Weight with cord:	285 grams

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