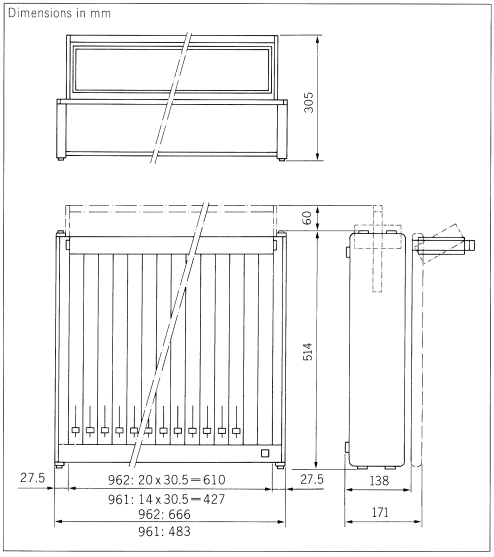
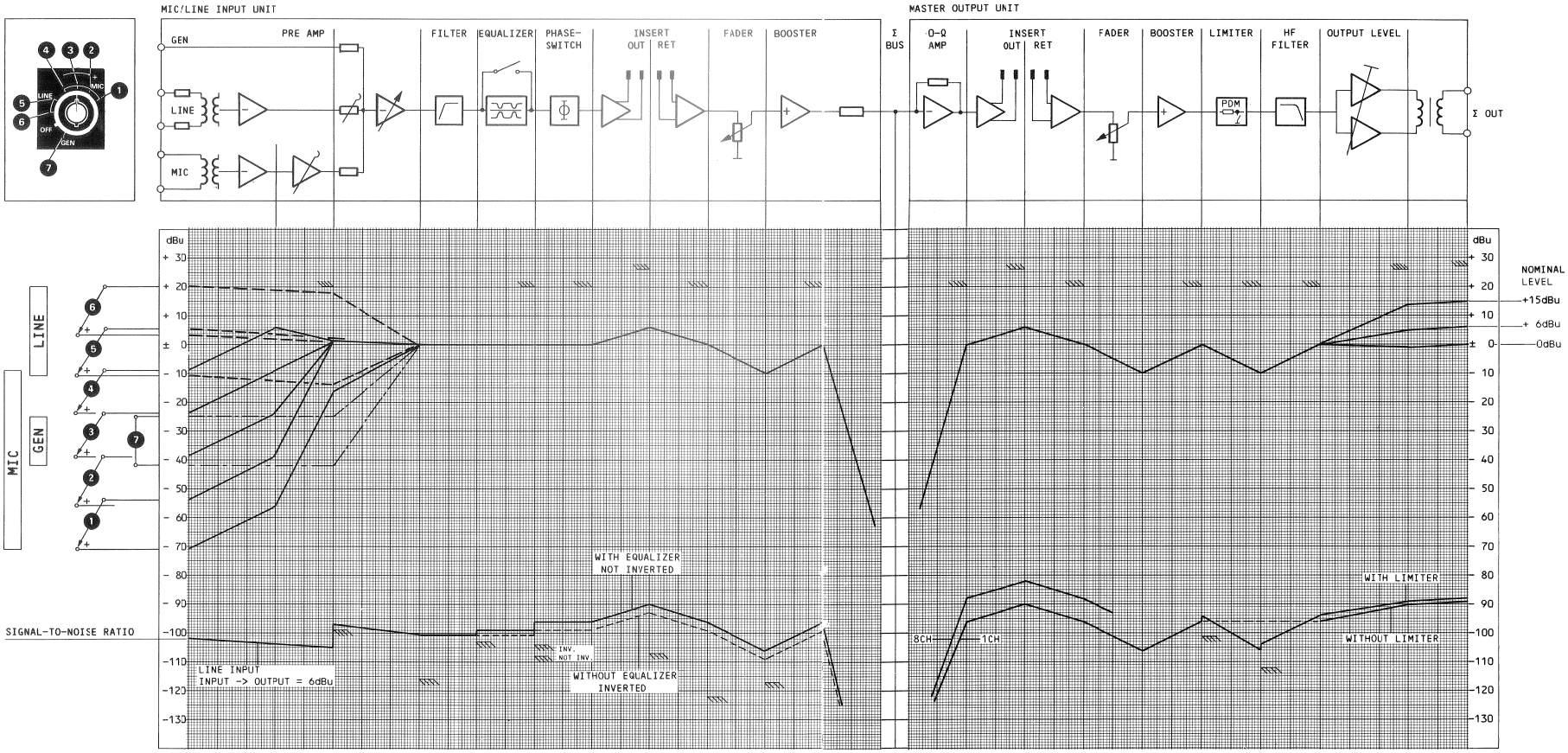
General	Voltage specification dBu:	**0 dBu ≙ 0.775 V**
	Channel input faders and master faders are set to 0 dB mark.	
	Line outputs are terminated with 600 Ohms.	
	External sources have a source impedance of ≦ 200 Ohms.	
	All data are valid within the frequency band from 31.5 Hz ... 16 kHz.	
	PPM version: line level + 6 dBu	
	VU version: nominal output level 0 VU ≙ + 4 dBu	
	Attack point of output limiter:	
	≙ peak output level + 6 VU ≙ + 10 dBu	
Levels	Microphone input sensitivity:	**– 69 ... – 9 dBu**
	Line input sensitivity:	**– 9 ... + 21 dBu**
	Level at insertion points:	**+ 6 dBu**
	Output level, adjustable within:	**+ 6 ... + 15 dBu**
	Monitor level (transformerless, balanced, unloaded):	**+ 6 ... + 15 dBu**
Common mode rejection	Microphone input:	**15 kHz ≧ 60 dB**
	Line input:	**15 kHz ≧ 50 dB**
Impedances	Impedance of microphone input:	**≧ 1.6 kOhms**
	Impedance of line input:	**≧ 10 kOhms**
	Internal impedance of line outputs:	**≦ 40 Ohms**
Frequency response	Filters switched off:	**+ 0.5 ... – 1 dB**
	3 dB points	
	filters switched off:	**4.5 Hz/approx. 40 kHz**
	(continuously decreasing outside this range)	
	Bass cut 12 dB/octave, – 3 dB:	**75 Hz ± 5 Hz**
	High frequency equalizer, shelving at 20 kHz:	**± 15 dB**
	Low frequency equalizer, shelving at 20 Hz:	**± 15 dB**
	Presence equalizer	**Q = 1**
	mid-frequency adjustable from 150 Hz ... 7 kHz:	**± 11 dB**
Overload margin	Microphone input, max. level for 1% third harmonic at 31.5 Hz:	**+ 6 dBu**
	Line input, max. level for 1% third harmonic at 31.5 Hz:	**+ 24 dBu**
	Head room before channel fader (1% THD):	**20 dB**
	Head room before master fader (1% THD):	**20 dB**
	Max. line output level, R_L = 300 Ohms:	**+ 24 dBu**
Unweighted noise voltage MICROPHONE	according to IEC 468-2 (DIN 45405)	
	Equivalent input noise at bandwith 23 kHz, 200 Ohms terminated:	**≦ – 125 dBu**
Signal-to-noise ratio	PPM version, relative to line level + 6 dBu	
	VU version, relative to peak output level + 6 VU ≙ + 10 dBu	
	On master output	
	master fader closed:	**≧ 95 dB**
	One channel	
	Input and master faders at 0 dB mark,	
	unity gain, – filters off:	**≧ 93 dB**
	– filters on, linear:	**≧ 92 dB**
	STUDER 961:	
	11 channels, all faders at 0 dB mark,	
	unity gain, – filters off:	**> 85 dB**
	– filters on, linear:	**> 83 dB**
	STUDER 962:	
	16 channels, all faders at 0 dB mark,	
	unity gain, – filters off:	**> 84 dB**
	– filters on, linear:	**> 82 dB**
Harmonic distortion	PPM version, measured with line level + 6 dBu	
	VU version, measured with nominal output level 0 VU or peak output level + 6 dBu	
	unity gain, 31.5 to 16 kHz:	**70 dB**
	All permissible levels according to level diagram, 60 Hz to 10 kHz:	**60 dB**
Crosstalk	channel to channel,	
	– without panorama potentiometer:	**> 80 dB**
	– with panorama potentiometer:	**> 70 dB**
	Channel bus selector switched off:	**> 90 dB**
	Fader attenuation input:	**> 100 dB**
	Fader attenuation master:	**> 90 dB**

Power supply	Electrical power mains, switchable:	**110 V/220 V/, ± 20 %**
	Power consumption STUDER 961:	**55 VA**
	STUDER 962:	**80 VA**
	Internal supply voltages;	
	– Amplifiers:	**± 15 V/1.5 A**
	– Logic circuits:	**– 6 V/1.5 A**
	– Microphone phantom powering:	**+ 48 V/0.1 A**
Ambient temperature	Operating temperature range:	**0 °C ... + 50 °C** (34 °F ... 122 °F)
Humidity	according to DIN 40040, category F	
Safety standard	Mains input according to IEC standard, publication 65, apparatur class I	
Weight	fully equipped with case and cover;	
	STUDER 961: approx.	**25 kg/55 lbs**
	STUDER 962: approx.	**34 kg/75 lbs**

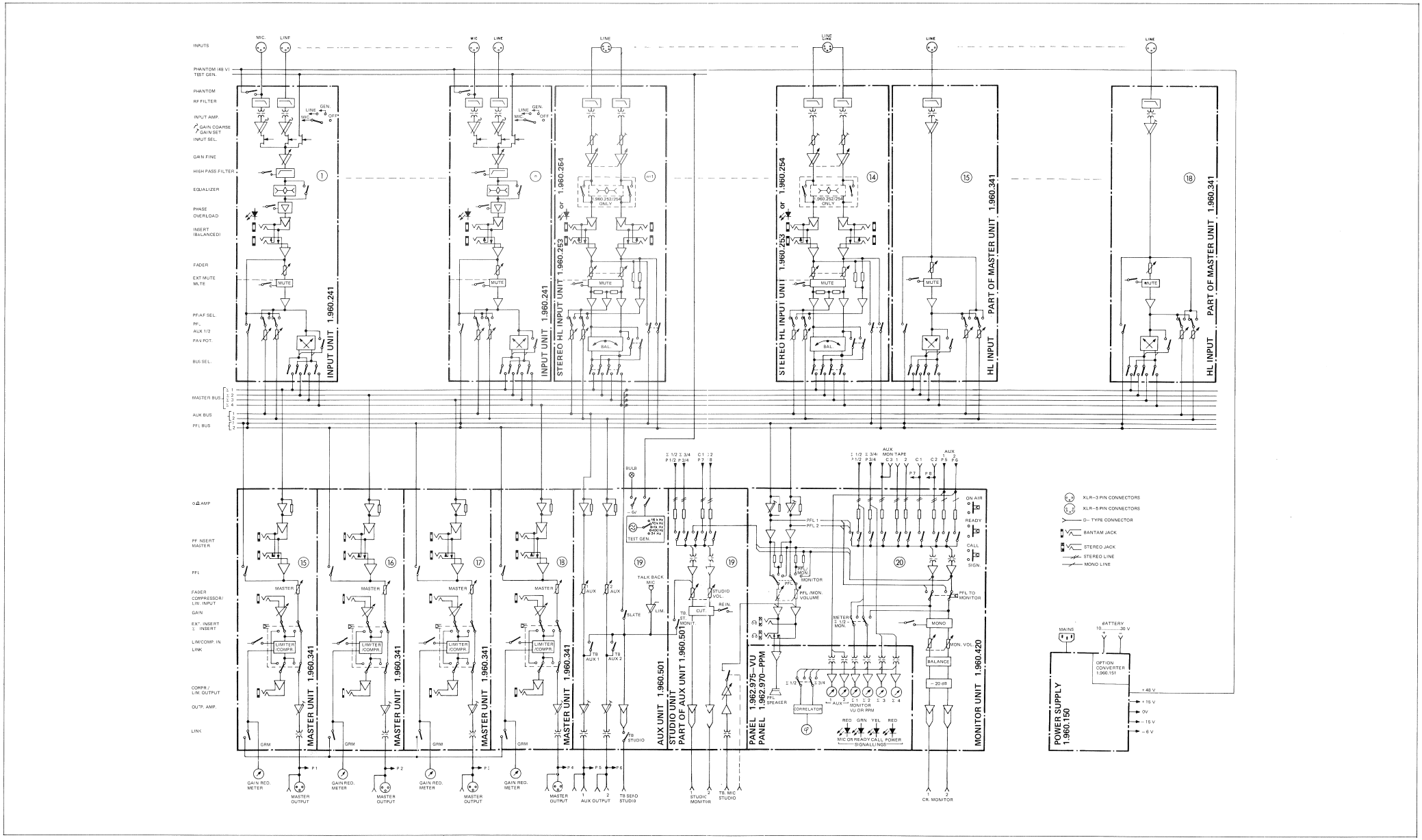
Dimensions



Level diagram



Block diagram



Ordering Information

Standard Consoles		Type	Order No.	Inputs MIC/LINE	Inputs HL	Outputs MASTER	Outputs AUX	Monitoring CR	Panel VU	Panel PPM	Instrumentation COR	Instrumentation GRM	Instrumentation AUX
STUDER **961**	2-channel	961-10/2-PPM	**71.029.61021**	10	2	2	2	1		2		2	2
		961-10/2-VU	**71.029.61022**	10	2	2	2	1	2			2	2
		961-10/2-PPM-COR	**71.029.61023**	10	2	2	2	1		2	1	2	2
		961-10/2-VU-COR	**71.029.61024**	10	2	2	2	1	2		1	2	2
	3-channel	961- 9/3-PPM	**71.029.61031**	9	3	3	2	1		3		3	2
		961- 9/3-VU	**71.029.61032**	9	3	3	2	1	3			3	2
		961- 9/3-PPM-COR	**71.029.61033**	9	3	3	2	1		3	1	3	2
		961- 9/3-VU-COR	**71.029.61034**	9	3	3	2	1	3		1	3	2
	4-channel	961- 8/4-PPM	**71.029.61041**	8	4	4	2	1		4		4	2
		961- 8/4-VU	**71.029.61042**	8	4	4	2	1	4			4	2
STUDER **962**	2-channel	962-16/2-PPM	**71.029.62021**	16	2	2	2	1		2		2	2
		962-16/2-VU	**71.029.62022**	16	2	2	2	1	2			2	2
		962-16/2-PPM-COR	**71.029.62023**	16	2	2	2	1		2	1	2	2
		962-16/2-VU-COR	**71.029.62024**	16	2	2	2	1	2		1	2	2
	3-channel	962-15/3-PPM	**71.029.62031**	15	3	3	2	1		3		3	2
		962-15/3-VU	**71.029.62032**	15	3	3	2	1	3			3	2
		962-15/3-PPM-COR	**71.029.62033**	15	3	3	2	1		3	1	3	2
		962-15/3-VU-COR	**71.029.62034**	15	3	3	2	1	3		1	3	2
	4-channel	962-14/4-PPM	**71.029.62041**	14	4	4	2	1		4		4	2
		962-14/4-VU	**71.029.62042**	14	4	4	2	1	4			4	2
		962-14/4-PPM-COR	**71.029.62043**	14	4	4	2	1		4	1	4	2
		962-14/4-VU-COR	**71.029.62044**	14	4	4	2	1	4		1	4	2

VU : Volume Unit Meter
PPM : Peak Program Meter
COR : Correlator
AUX : selective y VU/PPM
GRM: Gain Reuction Meter

Standard plug-in units			
Mono input unit	MIC/LINE	2CH	**1.960.221**
		4CH	**1.960.241**
Master unit with high-level input		2CH	**1.960.321**
		4CH	**1.960.341**
Auxiliary output unit	AUX1/AUX2		**1.960.500**
CR monitor unit	Stereo		**1.960.420**

Options

Plug-in units			
Stereo-/ high-level input unit	without Equalizer	2CH	**1.960.251**
	with Equalizer	2CH	**1.960.252**
	without Equalizer	4CH	**1.960.253**
	with Equalizer	4CH	**1.960.254**
Auxiliary output unit with studio monitor	AUX1/AUX2		**1.960.501**
Monitor extension unit	AUX MONITOR CR		**1.960.450**
	AUX MONITOR CR/STUDIO		**1.960.452**
Tape machine remote controller	for one tape machines		**1.960.511**
	for two tape machines		**1.960.512**
Tape deck remote control cable	for STUDER B67		**1.925.610.00**
	for STUDER A80		**1.925.611.00**
	for STUDER A810		**1.925.612.00**
	for STUDER A812 and A820 for controlling the tape deck via the remote control units 1.960.511/512.		**1.925.613.00**
Studio talk-back box	Operating unit for talk-back and signalization, incl. 7.5 m cable and D-type connector.		**1.924.560.00**
Console light	LITTLITE® G-12 lamp on swan neck (30 cm) with BNC connector.		**1.960.000.01**
	Spare bulb 6 VDC:		**10.581.001.00**
Connecting cables	Bantam Patch Cord	TT122/30 cm:	**10.010.102.69**
		TT124/60 cm:	**10.010.102.70**
		TT126/90 cm:	**10.010.102.71**
	Bantam Twin Patch Cord	TT164/60 cm:	**10.010.102.66**
		TT166/90 cm:	**10.010.102.67**
	Bantam Plug	TT253:	**10.010.102.80**

Converter	For external supply from DC source 10 ... 30 V in addition to the built-in power supply unit.	**1.960.051**
Audio mixer coupling kit	– For PPM working level	**1.960.067**
	– For VU working level	**1.960.068**
	Distributor board with connection cable for coupling two autonomous mixing consoles	
Slave mixer	961/2 CH & 3 CH	**71.029.61029**
	961/4 CH	**71.029.61049**
	962/2 CH & 3 CH	**71.029.62029**
	962/4 CH	**71.029.62049**
	Expansion console with 12 (961), or 18 (962) input modules, including distributor board for installation in master console, plus connecting cable.	

General Informations

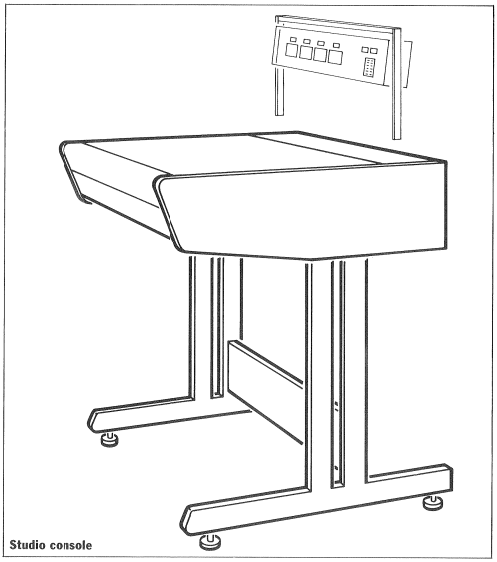
The audio inputs and outputs correspond to US standards:
– inputs: XLR female
– outputs: XLR male

Nominal output levels are aligned to the following working levels:
– PPM consoles: + 6 dBu
– VU consoles: + 4 dBu ≙ indication 0 VU
Other nominal output levels on request.

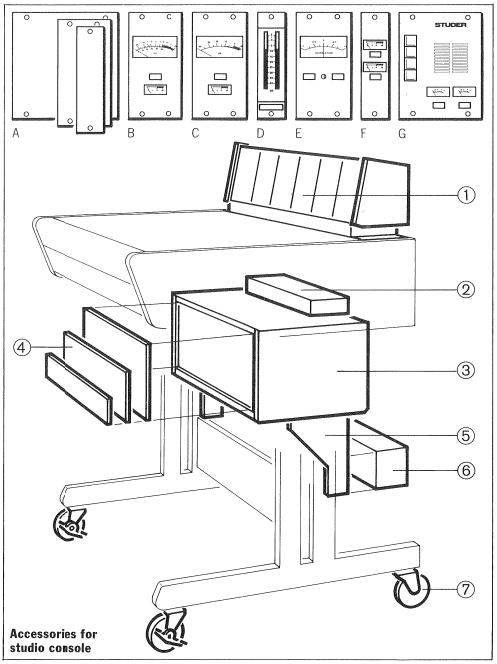
Line voltage: Set to correspond to the specifications on the mixing console order.

Microphone phantom supply:
– Standard version: 48 V
– On request: 12 V

Accessoires



Studio console



Accessories for studio console

Studio console for mixing console **961:** **1.058.121.00**
for mixing console **962:** **1.058.122.00**

With wooden side panels, artifical leather handrest, hinged front and rear section for optimum access to power fuses and connector panel.
Gliding feet as standard equipment (casters optional).
Instrument panel:
Available either with standard panel (simply plugs into the console) or extension with individually configured instrument panel as optional equipment.

Accessories for studio console

[1] **Instrument panel** **1.960.160.00**
For fixed mounting on studio console, with wooden side panels, can be fitted with Series 900 monitor modules.
Max. configurable width = 16 modules (16 E)

Monitor modules for installation in instrument panel:

[A] **Blank panels**
Element width 1 E **1.913.010.00**
Element width 2 E **1.913.020.00**
Element width 4 E **1.913.040.00**
For covering blank locations in the instrument panel.

[B] **VU meter** width limiter indicator (GRM) (2 E) **1.913.231.00**

[C] **PPM instrument** with limiter indicator (GRM) (2 E) **1.913.221.00**

[D] **Dual bargraph**
PPM characteristic STUDER (1 E) **1.091.349.00**
PPM characteristic NTP 277-200 (1 E) **10.445.200.00**
VU characteristic STUDER (1 E) **1.091.348.00**
VU characteristic NTP 277-950 (1 E) **10.445.950.00**
Matching power supply (24 V) for installation in panel **1.960.052.00**
Important: If bargraph output meters are configured the power supply 1.960.052.00 must be installed in the panel, and the power switch 1.960.163.00 is required.

[E] **Correlator** for 2-channel mixing console (2 E) **1.913.210.00**
for 4-channel mixing console (2 E) **1.913.211.00**

[F] **Limiter indicator** for 2 channels (2 E) **1.913.132.00**
(Prerequisite if instrument panel is fitted with bargraph output meters)

[G] **Monitor module** with PFL speaker, studio signalization equipment and two AUX outputs meters (3 E) **1.913.301.00**

[2] **Power switch** **1.960.163.00**
Connects up to two additional loads to the mains (e.g. peripheral equipment in pedestal base rack) when the master switch of the console is actuated. Indispensable when the instrument panel is equipped with bargraph output meters.

[3] **19" base rack** 4 HU (heights units) high **1.960.162.00**
for installing peripheral devices such as telephone hybrid (1 HU), line equalizer (1 HU), 40 W amplifier (1 HU), balancing unit (1 HU), noise reduction systems, etc.)

[4] **19" blank panels**
Element height 1 HU **1.918.001.09**
Element height 2 HU **1.918.002.09**
Element height 3 HU **1.918.003.09**

[5] **Connection box mounting bracket** **1.960.164.00**
To be fixed to the 19" base rack or directly below the studio console. For mounting the connection boxes 1.960.150/.151/.154/.155/.156

[6] **Connection boxes** External connector panels for monitor, TB, signalization equipment and audio extensions (requires mounting bracket 1.960.164.00)

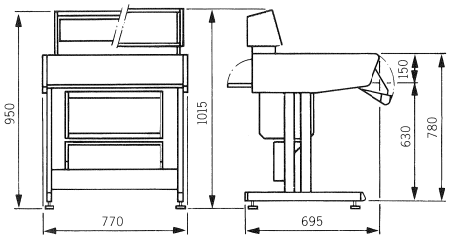
CR MONITOR
For CR monitor 2 CH and 3 CH **1.960.150.00**
For CR monitor 4 CH **1.960.151.00**

AUX/STUDIO MONITOR **1.960.154.00**
With connector panel for monitor extension unit (AUX) and studio monitor terminals.

CR/AUX/STUDIO MONITOR
2 CH/3 CH **1.960.155.00**
4 CH **1.960.156.00**
Combined connection box for CR and AUX/STUDIO MONITOR with connection facility for the STUDIO TALK BACK BOX (1.924.560.00)

[7] **Casters**
without brake **33.04.0202**
with brake **33.04.0203**
in place of the standard gliding feet.
Two caster with and two without brakes are required.

Dimensions in mm



Studio console

STUDER

PROFESSIONAL AUDIO EQUIPMENT

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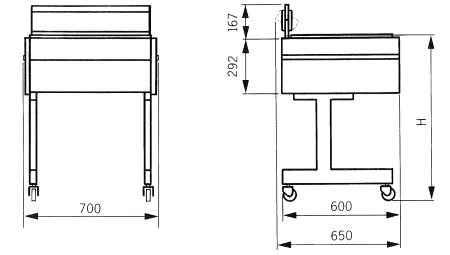
Universal console	**STUDER 961**	
	hight H = 780 mm, with floor gliders	**20.020.201.20**
	H = 840 mm, with floor gliders	**20.020.201.21**
	H = 900 mm, with floor gliders	**20.020.201.22**
	H = 840 mm, with castors	**20.020.201.25**
	H = 900 mm, with castors	**20.020.201.26**
	H = 960 mm, with castors	**20.020.201.27**
	STUDER 962	
	hight H = 780 mm, with floor gliders	**20.020.201.30**
	H = 840 mm, with floor gliders	**20.020.201.31**
	H = 900 mm, with floor gliders	**20.020.201.32**
	H = 840 mm, with castors	**20.020.201.35**
	H = 900 mm, with castors	**20.020.201.36**
	H = 960 mm, with castors	**20.020.201.37**

Dimensions in mm



Universal console

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