



ZK26480

MIXING CONSOLE

MG20XU / MG20

Technical Specifications

General Specifications

0 dBu = 0.775 Vrms, Output impedance of signal generator (Rs) = 150 Ω
All level controls are nominal if not specified.

| | | | |
|-----------------------------------|------------------------|---|---|
| Frequency Response | Input to STEREO OUT | +0.5 dB/-1.5 dB (20 Hz to 48 kHz), refer to the nominal output level @ 1 kHz, GAIN knob: Min | |
| Total Harmonic Distortion (THD+N) | Input to STEREO OUT | 0.03 % @ +14 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.005 % @ +24 dBu (1 kHz), GAIN knob: Min | |
| Hum & Noise *1 (20 Hz to 20 kHz) | Equivalent Input Noise | -128 dBu (Mono Input Channel, Rs: 150 Ω, GAIN knob: Max) | |
| | Residual Output Noise | -102 dBu (STEREO OUT, STEREO master fader: Min) | |
| Crosstalk(1 kHz) *2 | | -78 dB | |
| Input channels | | 20 channels: Mono [MIC/LINE]: 12, Mono/Stereo [MIC/LINE]: 2, Stereo [LINE]: 2 | |
| Output channels | | STEREO OUT: 2, PHONES: 1, MONITOR OUT: 1, AUX SEND: 4, GROUP OUT: 4 | |
| Bus | | STEREO: 1, GROUP: 4, AUX: 4 (MG20XU: incl. FX) | |
| Input Channel Function | PAD | CH 1 – CH 12 | 26 dB |
| | HPF | CH 1 – CH 12, CH 13/14 (MIC) – CH 19/20 (MIC) | 80 Hz, 12 dB/oct |
| | COMP | CH 1 – CH 8 | 1 knob compressor (Gain/Threshold/Ratio) Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB, Attack time: approx. 25 msec, Release time: approx. 300 msec |
| | EQ | CH 1 – CH 12 | HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving MID: Gain: +15 dB/-15 dB, Frequency: 250 Hz to 5 kHz peaking LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving |
| | | CH 13/14 – CH 19/20 | HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving MID: Gain: +15 dB/-15 dB, Frequency: 2.5 kHz peaking LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving |
| PEAK LED | CH 1 – CH 19/20 | LED turns on when post EQ signal reaches 3 dB below clipping level | |
| Level Meter | Pre Monitor LEVEL | 2 x 12 -segment LED meter [PEAK, +10, +6, +3, 0, -3, -6, -10, -15, -20, -25, -30 dB] | |
| Built-in Effect (MG20XU) | SPX Algorithm | 24 programs, PARAMETER control: 1, FOOT SW: 1 (FX RTN CH on/off) | |
| USB Audio (MG20XU) | 2 IN / 2 OUT | USB Audio Class 2.0 compliant, Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit | |
| Phantom Power Voltage | | +48 V | |
| Power Requirements | | AC 100-240 V, 50 Hz/60 Hz | |
| Power Consumption | | 36 W | |
| Dimensions (W x H x D) | | 444 mm x 130 mm x 500 mm (17.5" x 5.1" x 19.7") | |
| Net Weight | | MG20XU: 7.1 kg (15.7 lbs.), MG20: 6.9 kg (15.2 lbs.) | |
| Included Accessory | | AC power cord, Rack mount kit, Cubase AI Download Information (MG20XU), Owner's Manual, Technical Specifications (this leaflet) | |
| Optional Accessory | | Foot Switch: FC5 (MG20XU) | |
| Operating Temperature | | 0 to +40 °C | |

*1 Noise is measured with A-weighting filter.

*2 Crosstalk is measured with 1 kHz band pass filter.

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Analog Input Characteristics

0 dBu = 0.775 Vrms

| Input Jacks | PAD 26 dB | GAIN Trim Position | Actual Load Impedance | For Use With Nominal | Input level | | | Connector |
|-------------------|-----------|--------------------|-----------------------|----------------------|--------------------|--------------------|--------------------|----------------------------|
| | | | | | Sensitivity *1 | Nominal | Max. before clip | |
| MIC/LINE 1 - 12 | OFF | +64 dB | 3 kΩ | 50–600 Ω Mics/Lines | -80 dBu (0.077 mV) | -60 dBu (0.775 mV) | -40 dBu (7.75 mV) | Combo jack *2 (Balanced) |
| | | +20 dB | | | -36 dBu (12.3 mV) | -16 dBu (122.8 mV) | +4 dBu (1.228 V) | |
| | ON | +38 dB | | | -54 dBu (1.55 mV) | -34 dBu (15.46 mV) | -14 dBu (154.6 mV) | |
| | | -6 dB | | | -10 dBu (245 mV) | +10 dBu (2.451 V) | +30 dBu (24.51 V) | |
| MIC 13/14 - 19/20 | — | +64 dB | 3 kΩ | 50–600 Ω Mic | -80 dBu (0.077 mV) | -60 dBu (0.775 mV) | -40 dBu (7.75 mV) | XLR-3-31 *3 (Balanced) |
| LINE 13/14, 15/16 | — | +38 dB | 10 kΩ | 600 Ω Lines | -36 dBu (12.3 mV) | -16 dBu (122.8 mV) | +4 dBu (1.228 V) | Phone jack *4 (Unbalanced) |
| | | -6 dB | | | -54 dBu (1.55 mV) | -34 dBu (15.46 mV) | -14 dBu (154.6 mV) | |
| LINE 17/18, 19/20 | — | +38 dB | 10 kΩ | 600 Ω Lines | -10 dBu (245 mV) | +10 dBu (2.451 V) | +30 dBu (24.51 V) | RCA Pin (Unbalanced) |
| | | -6 dB | | | -54 dBu (1.55 mV) | -34 dBu (15.46 mV) | -14 dBu (154.6 mV) | |

*1 Sensitivity is the lowest level that will produce an output of +4 dBu (1.228 V) or the nominal output level when the unit is set to maximum gain.

(All level controls are at their maximum position.)

*2 1&Sleeve = GND, 2&Tip = HOT, 3&Ring = COLD

*3 1 = GND, 2 = HOT, 3 = COLD

*4 Tip = Signal, Sleeve = GND

Analog Output Characteristics

0 dBu = 0.775 Vrms

| Output Terminals | Actual Source Impedance | For Use With Nominal | Output level | | Connector |
|---|-------------------------|----------------------|------------------|-------------------|---|
| | | | Nominal | Max. before clip | |
| STEREO OUT [L, R] | 75 Ω | 600 Ω Lines | +4 dBu (1.228 V) | +24 dBu (12.28 V) | XLR-3-32 *3 Phone jack *5 (Balanced) |
| MONITOR OUT [L, R] GROUP OUT [1 - 4] AUX SEND [1 - 4] | 150 Ω | 10 kΩ Lines | +4 dBu (1.228 V) | +20 dBu (7.750 V) | Phone jack *5 (Impedance Balanced) |
| PHONES | 110 Ω | 40 Ω Phones | 3 mW + 3 mW | 100 mW + 100 mW | Stereo phone jack |

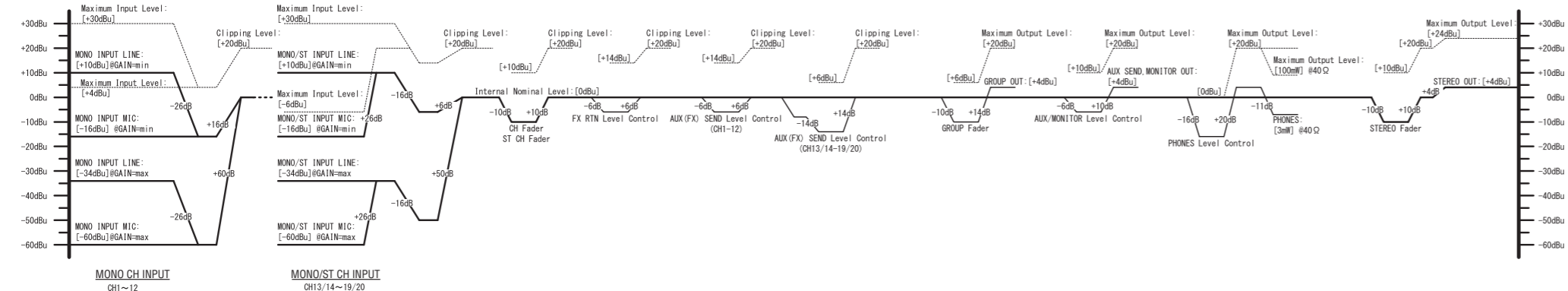
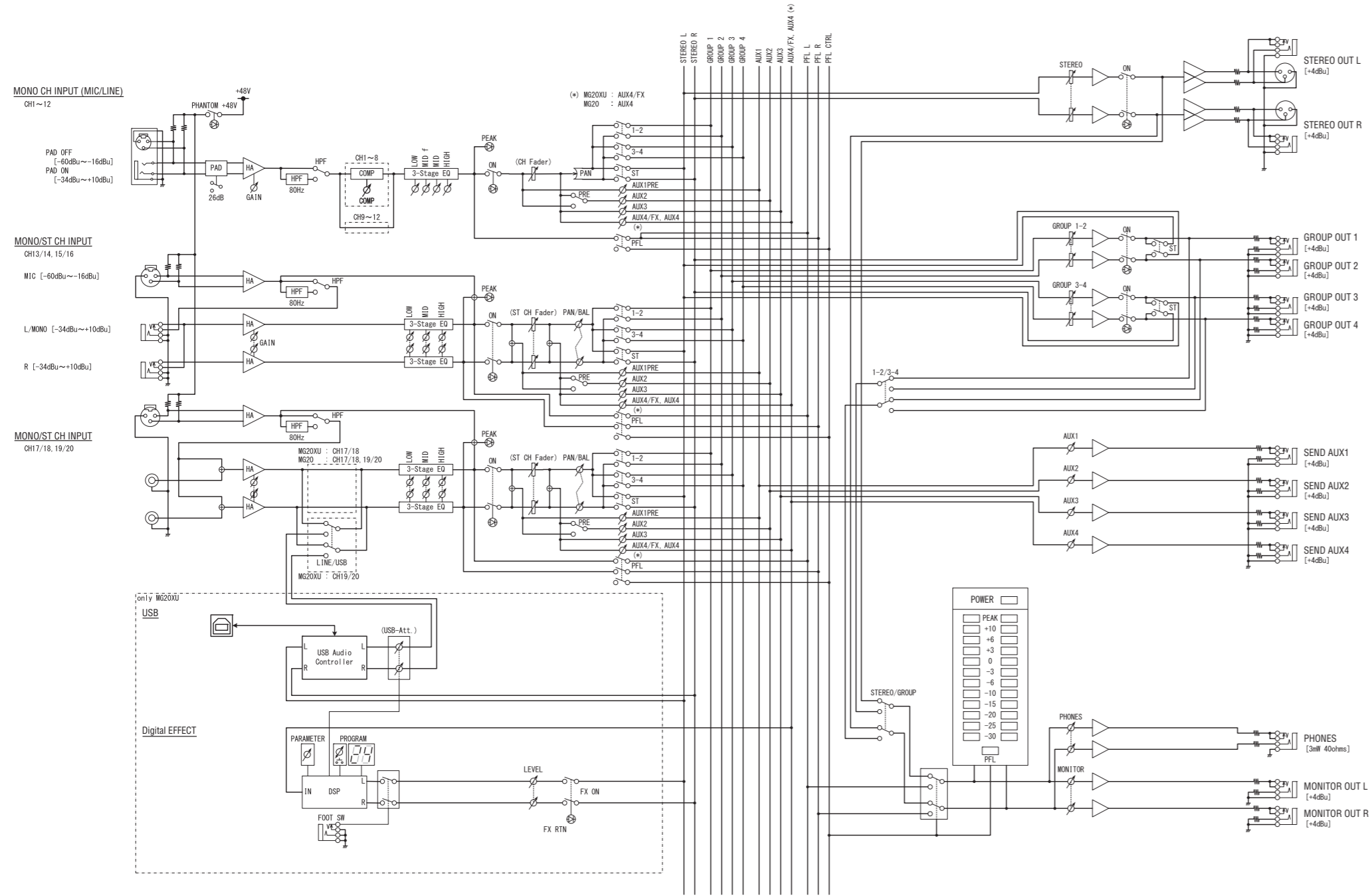
*3 1 = GND, 2 = HOT, 3 = COLD

*5 Tip = HOT, Ring = COLD, Sleeve = GND

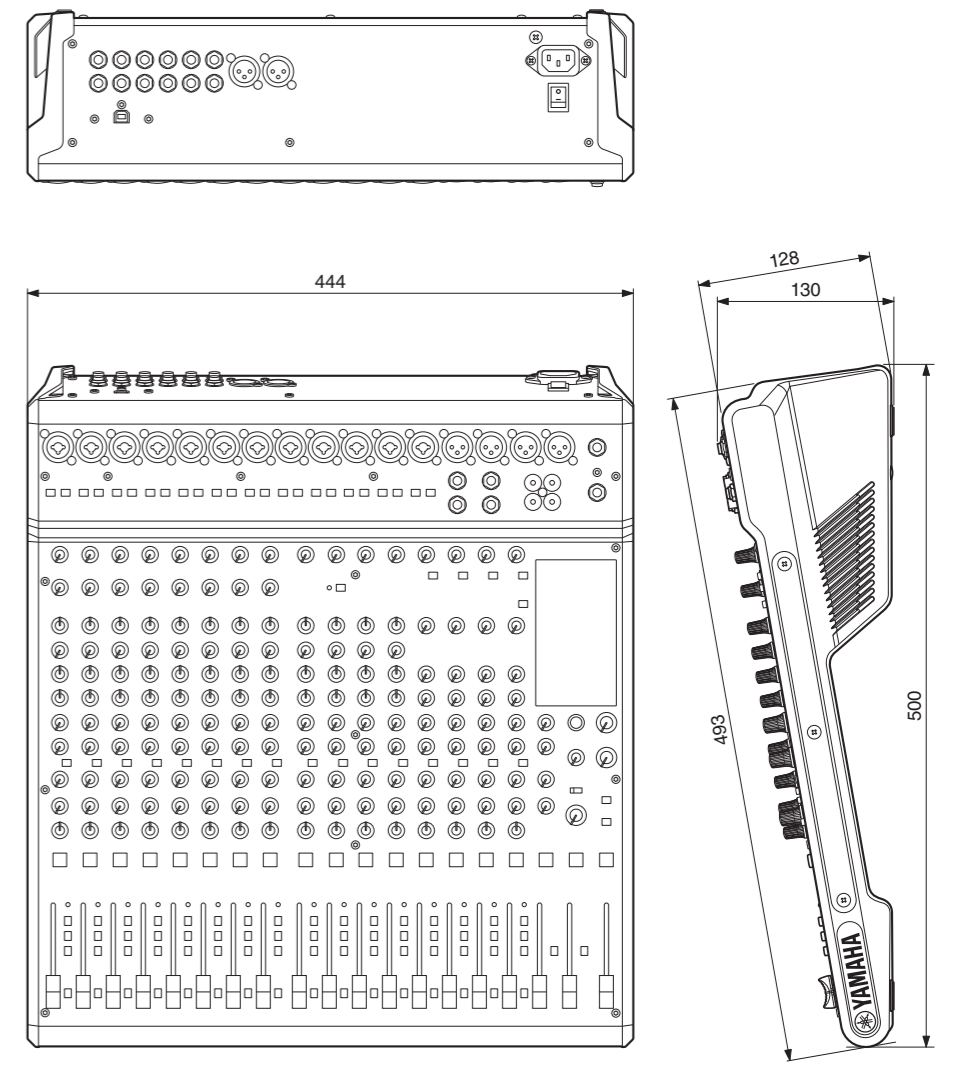
Digital Input / Output Characteristics (MG20XU)

| Terminals | Format | Data length | Fs | Connector |
|-----------|---------------------|---------------|--|----------------|
| USB | USB Audio Class 2.0 | 16-bit/24-bit | 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz | USB Standard-B |

Block and Level Diagrams



Dimensions



Unit: mm
This illustration shows the MG20XU.



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