

POWER AMPLIFIER

PX10/PX8
PX5/PX3

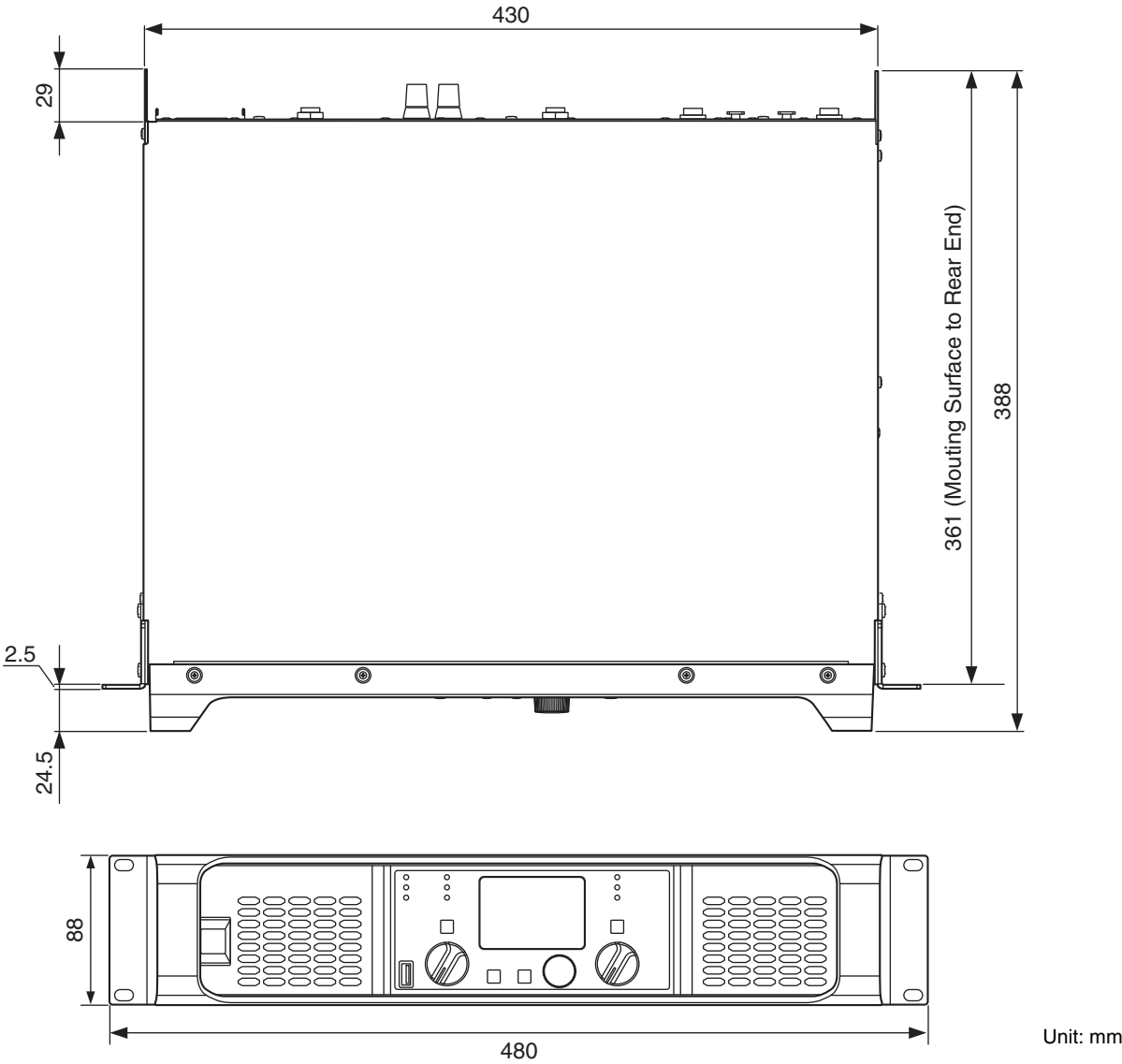
Technical Specifications

Specifications

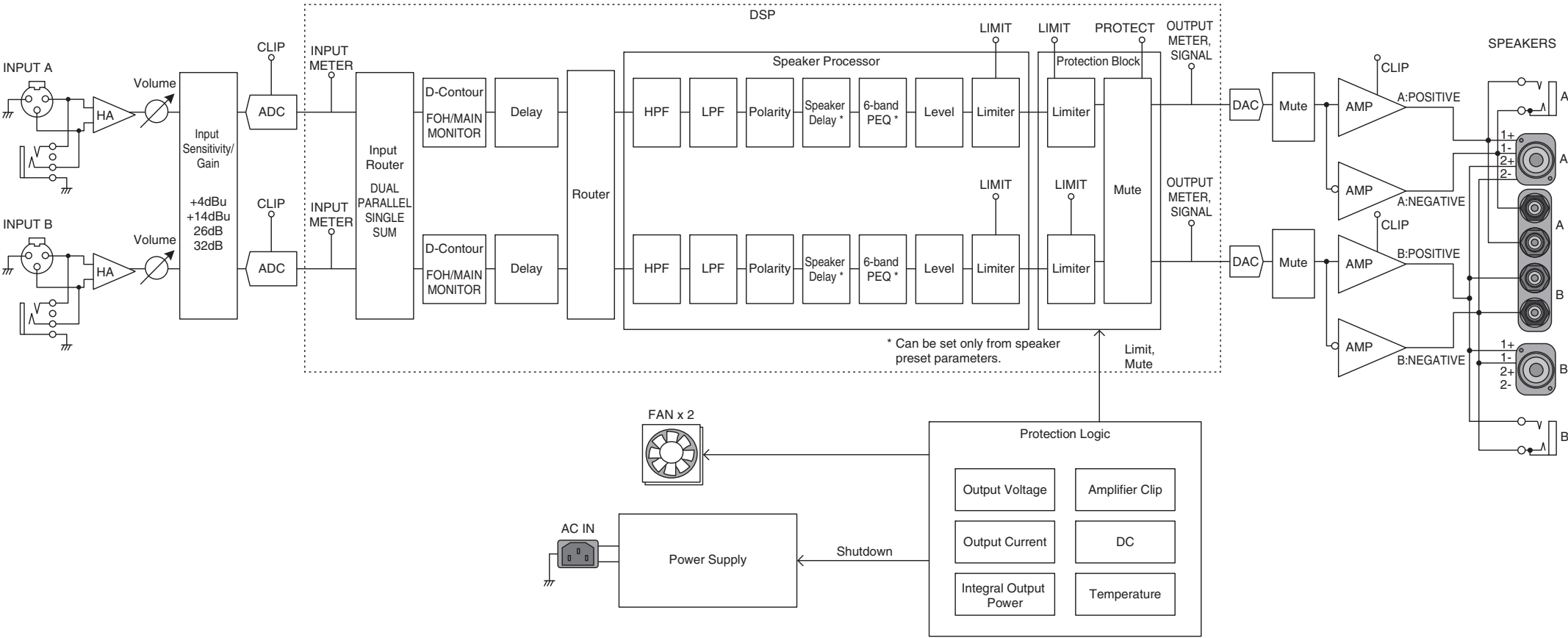
		PX10	PX8	PX5	PX3
Output Power		120 V 60 Hz, 220 V~240 V 50 Hz/60 Hz			
1 kHz, non-clip, 20 msec burst, both channels driven	8Ω	1000 W × 2	800 W × 2	500 W × 2	300 W × 2
	4Ω	1200 W × 2	1050 W × 2	800 W × 2	500 W × 2
	2Ω	700 W × 2	600 W × 2	500 W × 2	300 W × 2
1 kHz, non-clip, 20 msec burst	8Ω/Power Boost mode	—	—	800 W × 1	600 W × 1
	4Ω/Power Boost mode	—	—	1400 W × 1	1000 W × 1
Output Power		100 V 50 Hz/60 Hz			
1 kHz, non-clip, 20 msec burst, both channels driven	8Ω	1000 W × 2	800 W × 2	500 W × 2	300 W × 2
	4Ω	1200 W × 2	1050 W × 2	800 W × 2	500 W × 2
	2Ω	700 W × 2	600 W × 2	500 W × 2	300 W × 2
1 kHz, non-clip, 20 msec burst	8Ω/Power Boost mode	—	—	800 W × 1	600 W × 1
	4Ω/Power Boost mode	—	—	1200 W × 1	1000 W × 1
Amplifier Type (Output Circuitry)		Class D, balanced output circuit (BTL)			
THD+N	1 kHz, 10 W	0.1 %			
	1 kHz, half power	0.3 %			
Frequency Response	1 W, 8Ω, 20 Hz to 20 kHz	±1.0 dB			
Crosstalk	Half power, 8Ω, 1 kHz, vol. max., input 150Ω shunt	≤ -60 dB			
S/N Ratio	A-weighted, 8Ω, gain setting = +14 dBu	101 dB	101 dB	100 dB	100 dB
Voltage Gain/Sensitivity					
8Ω, Volume max	Gain setting: 32 dB	32.0 dB/+9.3 dBu	32.0 dB/+8.3 dBu	32.0 dB/+6.3 dBu	32.0 dB/+4.1 dBu
	Gain setting: 26 dB	26.0 dB/+15.3 dBu	26.0 dB/+14.3 dBu	26.0 dB/+12.3 dBu	26.0 dB/+10.1 dBu
	Gain setting: +4 dBu	37.3 dB/+4 dBu	36.3 dB/+4 dBu	34.3 dB/+4 dBu	32.1 dB/+4 dBu
	Gain setting: +14 dBu	27.3 dB/+14 dBu	26.3 dB/+14 dBu	24.3 dB/+14 dBu	22.1 dB/+14 dBu
8Ω, Volume max, Power Boost mode	Gain setting: 32 dB	—	—	34.0 dB/+6.3 dBu	35.0 dB/+4.1 dBu
	Gain setting: 26 dB	—	—	28.0 dB/+12.3 dBu	29.0 dB/+10.1 dBu
	Gain setting: +4 dBu	—	—	36.3 dB/+4 dBu	35.1 dB/+4 dBu
	Gain setting: +14 dBu	—	—	26.3 dB/+14 dBu	25.1 dB/+14 dBu
Maximum Input Voltage		+24 dBu			
Input Impedance		20 kΩ (Balanced), 10 kΩ (Unbalanced)			
Signal Processing		Input summing D-CONTOUR: FOH/MAIN, MONITOR, OFF Delay: 0~74msec HPF/LPF: cutoff frequency 20Hz~20kHz with polarity control Speaker processor: 6 band PEQ + limiter + delay			
User Amplifier Preset		8 user amplifier presets			
Factory Speaker Preset		Speaker presets for Yamaha passive speakers			
Connectors	Analog input	XLR-3-31 × 2, 1/4 PHONE(TRS) × 2			
	Speakers	Neutrik speakON NL4 × 2, Binding post × 2 pairs, 1/4" PHONE(TS) × 2			
	AC IN	AC inlet × 1 with AC cord clamp			
	USB	USB 2.0 Standard-A Connector (Female) for data save/load (amp settings, speaker preset, log) and firmware update with USB memory			
AC Power Requirement		Depending on area of purchase; 100 V, 50 Hz/60 Hz, 120 V 60 Hz, 220 V~240 V 50 Hz/60 Hz *1			
Power Consumption	1/8 MAX power, 4Ω, pink noise at all channels	310 W	280 W	230 W	160 W
	Idle, 4Ω	60 W	60 W	55 W	55 W
Operating Temperature		0°C to +40°C			
Storage Temperature		-20°C to +60°C			
Dimensions (W × H × D)		480 × 88 × 388 mm (18.90 × 3.46 × 15.28 inch)			
Net Weight		7.4 kg (16.31 lbs)	7.2 kg (15.87 lbs)	6.9 kg (15.21 lbs)	6.9 kg (15.21 lbs)

*1 Device operation has been confirmed within +/- 10% of the rated power supply voltage.
* The contents of this manual apply to the latest specifications as of the printing date. To obtain the latest manual, access the Yamaha website then download the manual file.

Dimensions



Block Diagram



Current Draw

● PX10

		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	57	0	57	195	49
1/8 out	8Ω/ch	2.6	213	125	88	300	76
	4Ω/ch	3.1	261	150	111	379	95
1/3 out	8Ω/ch	5.6	472	333	139	474	120
	4Ω/ch	7.2	608	400	208	710	179

		Line Current (A)	Watt (W)			Thermal Dissipation	
		120V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.7	60	0	60	205	52
1/8 out	8Ω/ch	2.2	213	125	88	300	76
	4Ω/ch	2.7	263	150	113	386	97
1/3 out	8Ω/ch	4.6	466	333	133	454	114
	4Ω/ch	5.9	597	400	197	672	169

		Line Current (A)	Watt (W)			Thermal Dissipation	
		230V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.5	62	0	62	212	53
1/8 out	8Ω/ch	1.4	219	125	94	321	81
	4Ω/ch	1.6	271	150	121	413	104
1/3 out	8Ω/ch	2.7	471	333	138	471	119
	4Ω/ch	3.3	602	400	202	689	174

● PX8

		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	57	0	57	195	49
1/8 out	8Ω/ch	2.2	178	100	78	266	67
	4Ω/ch	2.9	237	131	106	362	91
1/3 out	8Ω/ch	4.6	386	267	119	406	102
	4Ω/ch	6.4	543	350	193	659	166

		Line Current (A)	Watt (W)			Thermal Dissipation	
		120V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.7	60	0	60	205	52
1/8 out	8Ω/ch	1.9	182	100	82	280	71
	4Ω/ch	2.5	237	131	106	362	91
1/3 out	8Ω/ch	3.8	385	267	118	403	101
	4Ω/ch	5.4	542	350	192	655	165

		Line Current (A)	Watt (W)			Thermal Dissipation	
		230V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.5	62	0	62	212	53
1/8 out	8Ω/ch	1.2	184	100	84	287	72
	4Ω/ch	1.5	242	131	111	379	95
1/3 out	8Ω/ch	2.2	385	267	118	403	101
	4Ω/ch	3.0	544	350	194	662	167

● PX5

		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	46	0	46	157	40
1/8 out	8Ω/ch	1.9	122	63	59	201	51
	4Ω/ch	2.7	189	100	89	304	77
1/3 out	8Ω/ch	3.6	253	167	86	293	74
	4Ω/ch	5.6	424	267	157	536	135

		Line Current (A)	Watt (W)			Thermal Dissipation	
		120V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	54	0	54	184	46
1/8 out	8Ω/ch	1.7	130	63	67	229	58
	4Ω/ch	2.4	196	100	96	328	83
1/3 out	8Ω/ch	3.1	259	167	92	314	79
	4Ω/ch	4.8	428	267	161	549	138

		Line Current (A)	Watt (W)			Thermal Dissipation	
		230V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.5	57	0	57	195	49
1/8 out	8Ω/ch	1.0	130	63	67	229	58
	4Ω/ch	1.4	197	100	97	331	83
1/3 out	8Ω/ch	1.9	259	167	92	314	79
	4Ω/ch	2.9	434	267	167	570	144

● PX3

		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	46	0	46	157	40
1/8 out	8Ω/ch	1.5	94	38	56	191	48
	4Ω/ch	2.0	137	63	74	253	64
1/3 out	8Ω/ch	2.6	174	100	74	253	64
	4Ω/ch	3.9	285	167	118	403	101

		Line Current (A)	Watt (W)			Thermal Dissipation	
		120V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	54	0	54	184	46
1/8 out	8Ω/ch	1.3	100	38	62	212	53
	4Ω/ch	1.8	140	63	77	263	66
1/3 out	8Ω/ch	2.3	183	100	83	283	71
	4Ω/ch	3.4	291	167	124	423	107

		Line Current (A)	Watt (W)			Thermal Dissipation	
		230V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.5	57	0	57	195	49
1/8 out	8Ω/ch	0.8	101	38	63	215	54
	4Ω/ch	1.1	142	63	79	270	68
1/3 out	8Ω/ch	1.4	181	100	81	276	70
	4Ω/ch	2.1	293	167	126	430	108

Test signal: Pink noise, bandwidth limited from 22Hz to 22kHz
1 Btu = 1,055.06 J = 0.252 kcal
(W) × 0.86 = kcal

● PX5		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	46	0	46	157	40
1/8 out	8Ω/ch	1.9	122	63	59	201	51
	4Ω/ch	2.7	189	100	89	304	77
1/3 out	8Ω/ch	3.6	253	167	86	293	74
	4Ω/ch	5.6	424	267	157	536	135

The above warning is located on the top of the unit.
 L'avertissement ci-dessus est situé sur le dessus de l'unité.

● PX5		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	46	0	46	157	40
1/8 out	8Ω/ch	1.9	122	63	59	201	51
	4Ω/ch	2.7	189	100	89	304	77
1/3 out	8Ω/ch	3.6	253	167	86	293	74
	4Ω/ch	5.6	424	267	157	536	135

The above warning is located on the top of the unit.
 L'avertissement ci-dessus est situé sur le dessus de l'unité.

IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

● PX8		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	57	0	57	195	49
1/8 out	8Ω/ch	2.2	178	100	78	266	67
	4Ω/ch	2.9	237	131	106	362	91
1/3 out	8Ω/ch	4.6	386	267	119	406	102
	4Ω/ch	6.4	543	350	193	659	166

The above warning is located on the top of the unit.
 L'avertissement ci-dessus est situé sur le dessus de l'unité.

● PX3		Line Current (A)	Watt (W)			Thermal Dissipation	
		100V	Powwer Consumption (In)	Power Consumption (out)	Watts Dissipated	Btu/h	kcal/h
Idle		0.8	46	0	46	157	40
1/8 out	8Ω/ch	1.5	94	38	56	191	48
	4Ω/ch	2.0	137	63	74	253	64
1/3 out	8Ω/ch	2.6	174	100	74	253	64
	4Ω/ch	3.9	285	167	118	403	101

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Remarque importante: informations de garantie pour les clients de l'EEE et la Suisse		Français
Pour des informations plus détaillées sur la garantie de ce produit Yamaha et sur le service de garantie applicable dans l'ensemble de l'EEE ainsi qu'en Suisse, consultez notre site Web à l'adresse ci-dessous (le fichier imprimable est disponible sur notre site Web) ou contactez directement Yamaha dans votre pays de résidence. * EEE : Espace Economique Européen		
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Voor gedetailleerde garantie-informatie over dit Yamaha-product en de garantieservice in heel de EER* en Zwitserland, gaat u naar de onderstaande website (u vind een afdrukbaar bestand op onze website) of neemt u contact op met de vertegenwoordiging van Yamaha in uw land. * EER: Europese Economische Ruimte		
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http://europe.yamaha.com/warranty/	
URL_4	

Explanation of Graphical Symbols Explication des symboles