

Thank you for purchasing the Yamaha VKE2015, VKE2012, VKE2010 Speaker System (hereinafter referred to as “the speaker”).

This guide is intended for qualified installation contractors and explains how to install the speaker and connect to an amplifier. After reading this guide, please keep it available for future reference.

\*The example illustrations used in this guide are taken from the VKE2012, if not otherwise specified.

## Precautions

### PLEASE READ CAREFULLY BEFORE PROCEEDING

Please keep this manual in a safe place for future reference.

#### ⚠ WARNING

Always follow the basic precautions listed below to avoid the possibility of serious injury or even death from electrical shock, short-circuiting, damages, fire or other hazards. These precautions include, but are not limited to, the following:

#### If you notice any abnormality

- If any of the following problems occur, immediately turn off the power of the amplifier.
    - Unusual smells or smoke are emitted.
    - Some object, or water has been dropped into the product.
    - There is a sudden loss of sound during use of the product.
    - Cracks or other visible damage appear on the product.
- Then have the product inspected or repaired by qualified Yamaha service personnel.

#### Do not open

- This product contains no user-serviceable parts. Do not attempt to disassemble the internal parts or modify them in any way.

#### Water warning

- Do not expose the product to rain, use it near water or in damp or wet conditions, or place on it any containers (such as vases, bottles or glasses) containing liquids which might spill into any openings.

#### Fire warning

- Do not place any burning items or open flames near the product, since they may cause a fire.

#### Hearing loss

- Before turning the power of all devices on or off, make sure that all volume levels are set to the minimum. Failing to do so may result in hearing loss, electric shock, or device damage.
- When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid hearing loss and speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason.

#### ⚠ CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others. These precautions include, but are not limited to, the following:

#### Location and connection

- Do not place the product in an unstable position or a location with excessive vibration, where it might accidentally fall over and cause injury.
- Keep this product out of reach of children. This product is not suitable for use in locations where children are likely to be present.
- Do not place the product in a location where it may come into contact with corrosive gases or salt air. Doing so may result in malfunction.
- Before moving the product, remove all connected cables.
- When transporting, moving, or installing the product, always use two or more people. Attempting to lift the product by yourself may result in injuries, such as back injuries, or cause the product to be dropped and broken, which could lead to other injuries.
- Do not use the speaker’s handles for suspended installation. Doing so can result in damage or injury.
- Do not hold the bottom of the product when transporting or moving it. In doing so, you may pinch your hands under the product, and result in injury.
- Do not press the rear panel of the product against the wall. Doing so may cause the plug and speaker cable to come in contact with the wall and detach from the power cord, resulting in short circuiting, malfunction, or even fire.
- Always consult qualified Yamaha service personnel if the product installation requires construction work. Improper installation might cause accidents, injuries, damage or malfunction of this product.
- Use only speaker cables for connecting speakers to the speaker jacks. Use of other types of cables may result in fire.

#### Handling caution

- Do not rest your weight on the product or place heavy objects on it.
  - When choosing a power amplifier for use with this product, make sure that the output power of the amplifier is lower than the power capacity of this product. If the output power is higher than the power capacity, malfunction or fire may occur.
  - Do not input excessively loud signals that may result in clipping in the amplifier or cause the following:
    - Feedback, when using a microphone
    - Continuous and extremely loud sound from a musical instrument, etc.
    - Continuous and excessively loud distorted sound
    - Noise caused by plugging/unplugging the cable while the amplifier is turned on
- Even if the output power of the amplifier is lower than the power capacity of this product (program), damage to the product, malfunction or fire may occur.

#### Notice

To avoid the possibility of malfunction/damage to the product, or damage to other property, follow the notices below.

#### Handling and maintenance

- Do not expose the product to excessive dust or vibration, or extreme cold or heat, in order to prevent the possibility of panel disfiguration, unstable operation, or damage to the internal components.
- Do not touch the speaker driver unit, since it might cause malfunction.
- Do not place vinyl, plastic or rubber objects on the product, since this might cause alteration or discoloration of the panel.
- When cleaning the product, use a dry and soft cloth. Do not use paint thinners, solvents, cleaning fluids, or chemical-impregnated wiping cloths, since this might cause alteration or discoloration.
- Protection Circuit  
This speaker system has an internal protection circuit that shuts off the HF driver unit when an excessive input signal is applied. If the HF driver unit emits no sound, reduce the volume level of the amplifier immediately. (The sound will return automatically in several seconds.)
- Do not place the speaker face down, as deformation of the grille may result.
- Air blowing out of the bass reflex ports is normal, and often occurs when the speaker is handling program material with heavy bass content.

#### Information

##### About this guide

- The illustrations as shown in this guide are for instructional purposes only.
- The company names and product names in this guide are the trademarks or registered trademarks of their respective companies.

##### About disposal

- This product contains recyclable components. When disposing of this product, please contact the appropriate local authorities.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the product.

## Mounting the Speaker to a Ceiling

Yamaha cannot be held responsible for damage or injury caused by insufficient strength of the support structure or improper installation.

#### ⚠ CAUTION

- Before doing any installation or construction work, consult with your Yamaha dealer.
- Do not attach the speaker to thin plywood or soft wall surface materials, as the screws may tear free from flimsy surfaces, causing the speaker to fall and be damaged, or result in personal injury.
- To avoid accidents resulting from tripping over loose speaker cables, fix these to the wall along with the speaker.
- The installation should be checked thoroughly at regular intervals. Some fittings may deteriorate over extended periods of time due to wear and/or corrosion.
- Do not fasten the speaker to the ceiling with nails, adhesives, or other unsound hardware. Long-term use and vibrations may cause them to pull free.

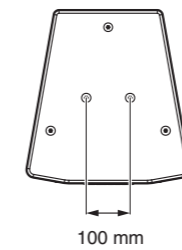
#### Notice

The required length of a screw differs depending on the mounting bracket to be used. Select a screw which is suitable for use with the mounting bracket and can be fully inserted into the hole on the speaker.

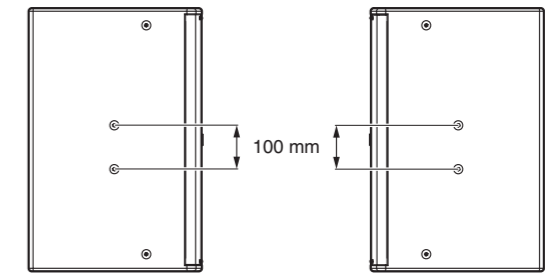
You can mount the speaker to the ceiling by using commercially available mounting brackets. To fix the speaker to a mounting bracket, use commercially available screws (M10 × 2) inserted to the screw holes on the top or both sides of the speaker as shown below.

Screw type: M10

Screw length: 35 mm or longer



Top



Sides

## Connecting to Your Amplifier

#### ⚠ CAUTION

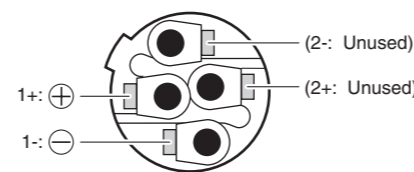
- Before making connections, make sure that the amplifier is switched off.
- Do not connect the speakers in parallel as it may cause damage or malfunction to the connected amplifier.

#### Notice

- Use only Neutrik NL4 plugs for connecting speakON connectors.
- For more details in connection, refer to your amplifier's manual.

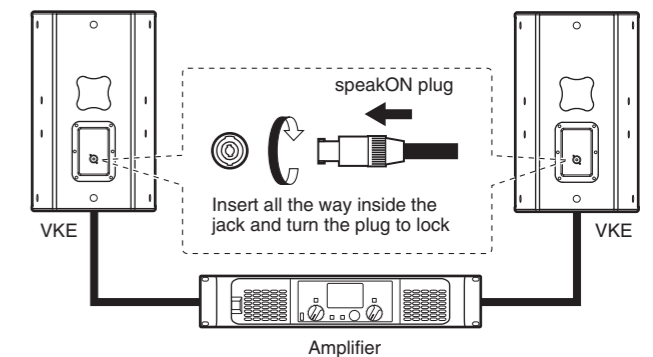
#### ■ SpeakON connector wiring

Connect the wiring for the plug as shown below.



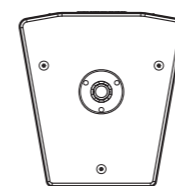
#### ■ Connection

Use speaker cables with Neutrik NL4 speakON plugs to connect an amplifier as shown below.

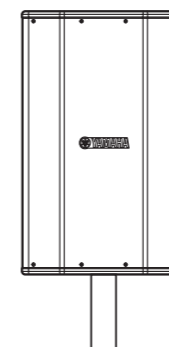


## Mounting to the Pole Socket

The socket at the bottom is compatible with commercially available speaker stands and speaker poles of 35 mm diameter.



bottom

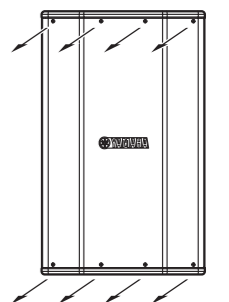


## Removing the Speaker Grille

For maintenance purposes, you can remove the speaker grille by removing the attachment screws (VKE2015: 10 pcs, VKE2012: 8 pcs, VKE2010: 6 pcs) on the grille. Be careful not to lose any of the removed screws since they will be necessary for attaching the speaker grille again.

#### Notice

- Be careful not to scratch yourself with the edge of the speaker grille.
- Be sure to work on a stable place.



## Specifications

		VKE2015	VKE2012	VKE2010
System Type		2-way bass reflex		
Components	HF	1.4" (3.6 cm) compression driver		
	LF	15" (38 cm) cone	12" (30 cm) cone	10" (25 cm) cone
Nominal Impedance		8 Ω		
Frequency Range <sup>*1</sup>	(-10 dB)	55 Hz - 20 kHz	55 Hz - 20 kHz	56 Hz - 20 kHz
Crossover Frequency		2.2 kHz	1.5 kHz	2.2 kHz
Coverage Angle <sup>*1</sup>		H70° × V100°		
Power Rating	NOISE	350 W	350 W	300 W
	PGM	700 W	700 W	600 W
	MAX	1,400 W	1,400 W	1,200 W
Sensitivity <sup>*1</sup>	(1 W, 1 m)	98 dB SPL	96 dB SPL	95 dB SPL
Maximum SPL <sup>*2</sup>	(Calculated, 1 m, Peak)	129 dB SPL	127 dB SPL	126 dB SPL
Connector		Neutrik speakON NL4MP × 1		
Overload Protection		Power limiting to protect HF transducer		
Enclosure	Material	Plywood t15		
	Finish	PU painting, black		
Grille	Material	Punching metal / cloth (back)		
	Finish	Powder coating, black		
Rigging Points		M10 × 2 - P100 mm 3 places (Top/Sides)		
Pole Socket		ø35 × 1 (Bottom)		
Dimensions (W × H × D)		431 × 700 × 456 mm	372 × 600 × 395 mm	309 × 535 × 344 mm
Weight		24.5 kg	19.9 kg	15.6 kg
Included Accessory		Installation Guide		

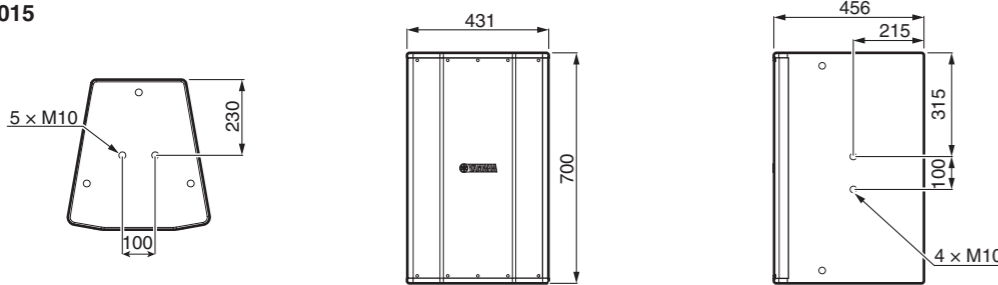
\*1: Full-space (4n)

\*2: Calculated based on power rating and sensitivity

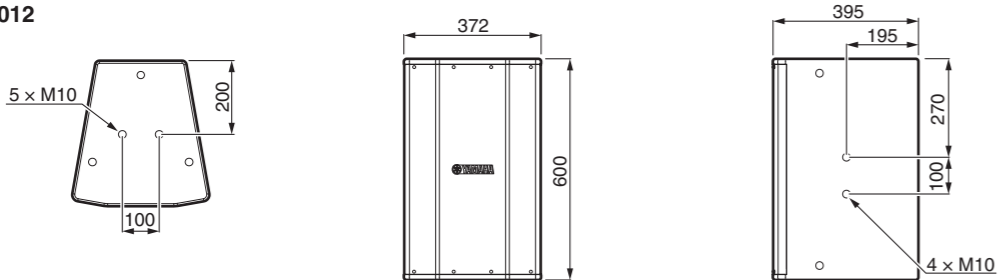
\*The contents of this guide apply to the latest specifications as of the publishing date. To obtain the latest guide, access the Yamaha website then download the guide file.

## Dimensions

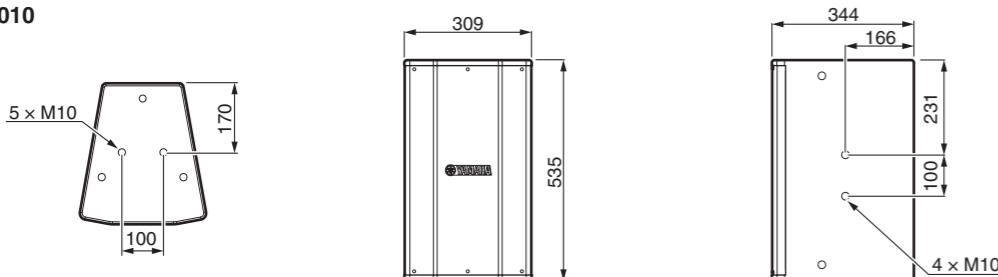
### ■ VKE2015



### ■ VKE2012



### ■ VKE2010



Unit: mm

## ADDRESS LIST

### NORTH AMERICA

#### CANADA

**Yamaha Canada Music Ltd.**  
135 Milner Avenue, Toronto, Ontario,  
M1S 3R1, Canada  
Tel: +1-416-298-1311

#### U.S.A.

**Yamaha Corporation of America**  
6600 Orangethorpe Avenue, Buena Park, CA 90620,  
U.S.A.  
Tel: +1-714-522-9011

### CENTRAL & SOUTH AMERICA

#### MEXICO

**Yamaha de México, S.A. de C.V.**  
Av. Insurgentes Sur 1647 Piso 9, Col. San José  
Insurgentes, Delegación Benito Juárez, CDMX,  
C.P. 03900, México  
Tel: +52-55-5804-0600

#### BRAZIL

**Yamaha Musical do Brasil Ltda.**  
Praça Professor José Lannes, 40, Cjs 21 e 22, Brooklin  
Paulista Novo CEP 04571-100 – São Paulo – SP,  
Brazil  
Tel: +55-11-3704-1377

#### ARGENTINA

**Yamaha Music Latin America, S.A.,  
Sucursal Argentina**  
Olga Cossettini 1553, Piso 4 Norte,  
Madero Este-C1107CEK,  
Buenos Aires, Argentina  
Tel: +54-11-4119-7000

#### PANAMA AND OTHER LATIN AMERICAN/CARIBBEAN REGIONS

**Yamaha Music Latin America, S.A.**  
Edif. Torre Banco General, Piso 7, Urbanización  
Marbella, Calle 47 y Aquilino de la Guardia,  
Ciudad de Panamá, República de Panamá  
Tel: +507-269-5311

### EUROPE

#### THE UNITED KINGDOM/IRELAND

**Yamaha Music Europe GmbH (UK)**  
Sherbourne Drive, Tilbrook, Milton Keynes,  
MK7 8BL, U.K.  
Tel: +44-1908-366700

#### GERMANY

**Yamaha Music Europe GmbH**  
Siemensstrasse 22-34, 25462 Rellingen, Germany  
Tel: +49-4101-303-0

#### SWITZERLAND/LIECHTENSTEIN

**Yamaha Music Europe GmbH, Branch  
Switzerland in Thalwil**  
Seestrasse 18a, 8800 Thalwil, Switzerland  
Tel: +41-44-3878080

#### AUSTRIA/BULGARIA/ CZECH REPUBLIC/HUNGARY/ ROMANIA/SLOVAKIA/SLOVENIA

**Yamaha Music Europe GmbH  
Branch Austria**  
Schleiergasse 20, 1100 Wien, Austria  
Tel: +43-1-60203900

#### POLAND

**Yamaha Music Europe GmbH  
Sp.z o.o. Oddział w Polsce**  
ul. Wielicka 52, 02-657 Warszawa, Poland  
Tel: +48-22-880-08-88

#### MALTA

**Olimpus Music Ltd.**  
Valletta Road, Mosta MST9010, Malta  
Tel: +356-2133-2093

#### NETHERLANDS/BELGIUM/ LUXEMBOURG

**Yamaha Music Europe Branch Benelux**  
Clarissenhof 5b, 4133 AB Vianen, The Netherlands  
Tel: +31-347-358040

#### FRANCE

**Yamaha Music Europe**  
7 rue Ambroise Croizat, Zone d'activités de Pariest,  
77183 Croissy-Beaubourg, France  
Tel: +33-1-6461-4000

#### ITALY

**Yamaha Music Europe GmbH, Branch Italy**  
Via Tinelli N.67/69 20855 Gerno di Lesmo (MB),  
Italy  
Tel: +39-039-9065-1

#### SPAIN/PORTUGAL

**Yamaha Music Europe GmbH Ibérica, Sucursal  
en España**  
Ctra. de la Coruña km. 17,200, 28231  
Las Rozas de Madrid, Spain  
Tel: +34-91-639-88-88

#### GREECE

**Philippos Nakas S.A. The Music House**  
19th klm. Leof. Lavriou 190 02 Peania – Attiki,  
Greece  
Tel: +30-210-6686168

#### SWEDEN/FINLAND/ICELAND

**Yamaha Music Europe GmbH Germany filial  
Scandinavia**  
JA Wettergrensgata 1, 400 43 Göteborg, Sweden  
Tel: +46-31-89-34-00

#### DENMARK

**Yamaha Music Denmark,  
Filial of Yamaha Music Europe GmbH, Tyskland**  
Generatorvej 8C, ST. TH. , 2860 Søborg, Denmark  
Tel: +45-44-92-49-00

#### NORWAY

**Yamaha Music Europe GmbH Germany -  
Norwegian Branch**  
Grini Næringspark 1, 1332 Østerås, Norway  
Tel: +47-6716-7800

#### CYPRUS

**Yamaha Music Europe GmbH**  
Siemensstrasse 22-34, 25462 Rellingen, Germany  
Tel: +49-4101-303-0

#### RUSSIA

**Yamaha Music (Russia) LLC.**  
Room 37, entrance 7, bld. 7, Kievskaya street,  
Moscow, 121059, Russia  
Tel: +7-495-626-5005

#### OTHER EUROPEAN REGIONS

**Yamaha Music Europe GmbH**  
Siemensstrasse 22-34, 25462 Rellingen, Germany  
Tel: +49-4101-3030

### AFRICA

**Yamaha Music Gulf FZE**  
JAFZA-16, Office 512, P.O.Box 17328,  
Jebel Ali FZE, Dubai, UAE  
Tel: +971-4-801-1500

### MIDDLE EAST

#### TURKEY

**Yamaha Music Europe GmbH  
Merkezi Almanya Türkiye İstanbul Şubesi**  
Mor Sumbul Sokak Varyap Meridian Business  
1.Blok No:1 113-114-115  
Bati Atasehir Istanbul, Turkey  
Tel: +90-216-275-7960

#### OTHER REGIONS

**Yamaha Music Gulf FZE**  
JAFZA-16, Office 512, P.O.Box 17328,  
Jebel Ali FZE, Dubai, UAE  
Tel: +971-4-801-1500

### ASIA

#### THE PEOPLE'S REPUBLIC OF CHINA

**Yamaha Music & Electronics (China) Co.,Ltd.**  
2F, Yunhedasha, 1818 Xinzha-lu, Jingan-qu,  
Shanghai, China  
Tel: +86-400-051-7700

#### INDIA

**Yamaha Music India Private Limited**  
P-401, JMD Megapolis, Sector-48, Sohna Road,  
Gurugram-122018, Haryana, India  
Tel: +91-124-485-3300

#### INDONESIA

**PT Yamaha Musik Indonesia Distributor**  
Yamaha Music Center Bldg. Jalan Jend. Gatot  
Subroto Kav. 4, Jakarta 12930, Indonesia  
Tel: +62-21-520-2577

#### KOREA

**Yamaha Music Korea Ltd.**  
11F, Prudential Tower, 298, Gangnam-daero,  
Gangnam-gu, Seoul, 06253, Korea  
Tel: +82-2-3467-3300

#### MALAYSIA

**Yamaha Music (Malaysia) Sdn. Bhd.**  
No.8, Jalan Perbandaran, Kelana Jaya, 47301  
Petaling Jaya, Selangor, Malaysia  
Tel: +60-3-78039000

#### SINGAPORE

**Yamaha Music (Asia) Private Limited**  
Block 202 Hougang Street 21, #02-00,  
Singapore 530202, Singapore  
Tel: +65-6740-9200

#### TAIWAN

**Yamaha Music & Electronics Taiwan Co.,Ltd.**  
2F., No.1, Yuandong Rd., Banqiao Dist.,  
New Taipei City 22063, Taiwan (R.O.C.)  
Tel: +886-2-7741-8888

#### THAILAND

**Siam Music Yamaha Co., Ltd.**  
3, 4, 15, 16th Fl., Siam Motors Building,  
891/1 Rama 1 Road, Wangmai,  
Pathumwan, Bangkok 10330, Thailand  
Tel: +66-2215-2622

#### VIETNAM

**Yamaha Music Vietnam Company Limited**  
15th Floor, Nam A Bank Tower, 201-203 Cach  
Mang Thang Tam St., Ward 4, Dist.3,  
Ho Chi Minh City, Vietnam  
Tel: +84-8-3818-1122

#### OTHER ASIAN REGIONS

<http://asia.yamaha.com/>

### OCEANIA

#### AUSTRALIA

**Yamaha Music Australia Pty. Ltd.**  
Level 1, 80 Market Street, South Melbourne,  
VIC 3205, Australia  
Tel: +61-3-9693-5111

#### REGIONS AND TRUST TERRITORIES IN PACIFIC OCEAN

<http://asia.yamaha.com/>

Head Office/Manufacturer: Yamaha Corporation 10-1, Nakazawa-cho, Naka-ku, Hamamatsu, 430-8650, Japan

Importer (European Union): Yamaha Music Europe GmbH Siemensstrasse 22-34, 25462 Rellingen, Germany

Importer (United Kingdom): Yamaha Music Europe GmbH (UK) Sherbourne Drive, Tilbrook, Milton Keynes, MK7 8BL, United Kingdom

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