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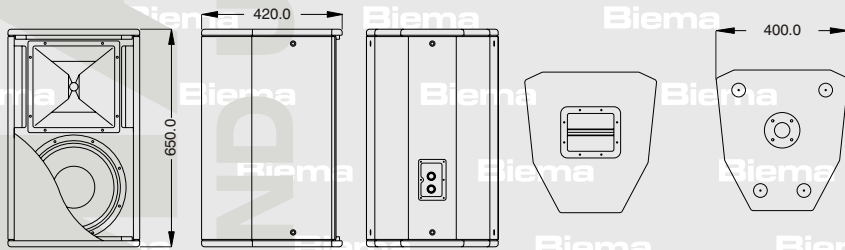
## Product Specification Sheet

Brand: Biema

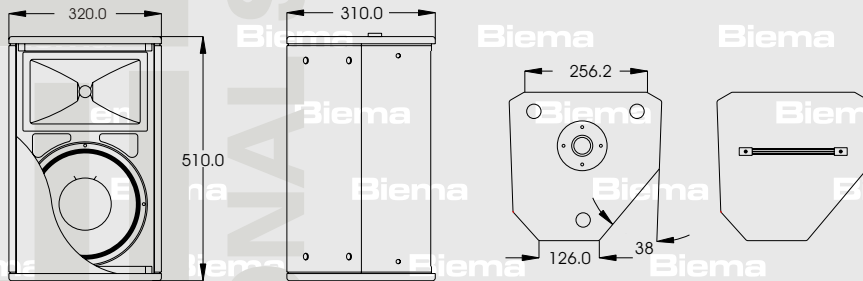
Part No	Description	Supplier Ordering Info
C 1029	SPK PRO PA 2WAY 10" 300WRMS	N/A

# OWNER'S MANUAL

## BIEMA GOLD SANGPRO® SERIES PROFESSIONAL SPEAKER 4000T II -1 4000T II -2



4000TII-1satellite(4001/112a)



4000TII-2satellite(2412/110a)



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**Biema**  
PROFESSIONAL SOUND U.S.A.

# BIEMA GOLD SANGPRO® SERIES 4000T II -1

## PROFESSIONAL SPEAKER 4000T II -2

### 5. Subsonic Filter

- 1) Protected power amp and speakers from harmful ultra-sub-low frequencies;
- 2) Achieved more output power in the usable frequency range.

### 6. 24dB/octave Electronic Crossover

- 1) Steep slope of 24dB per octave for purer signal;
- 2) Unlike passive crossovers, no signal power loss.

### 7. Easy set-up and handling

- 1) All functions integrated into one system;
- 2) Easy handling and faster setup,

## 2. STRUCTURE AND CHARACTER

- Ideal for all kinds of outdoors gigs, conference statio and house parties.
- 100° x 50° constant directivity horns with 3/4" compression drivers, Built in EQ adjusts the sound for high mid and low range.
- Dual 150W RMS low/mid/high-range power amp with limiter for pure and transparent sound.
- Mid/high speaker has 12dB two way crossover, which can strengthen fluent frequency response of system sound.
- Subsonds filter protects power amp and speakers from any existing harmful ultra-sub-low frequencies.
- Balanced XLR and 1/4" input and output.
- Two-color LEDs show limiter status for bath sub-woofer and satellite.
- Automatic circuit breaker
- Ground controlling switch to eliminate hum.
- Locking SPEAKON connectors.
- Equipped with several types power cable for user to choose.

## 3. FUNCTION OF REAR PANEL (fig1 and fig 2)

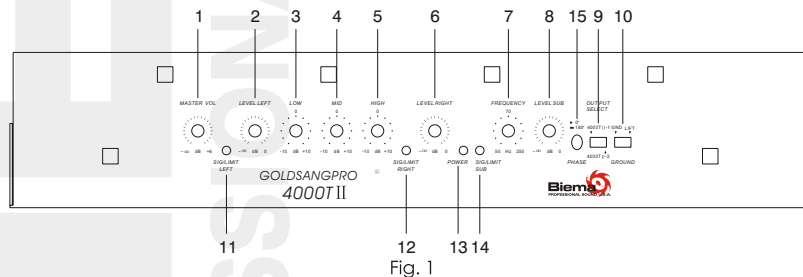


Fig. 1

- (1) MASTER VOL: adjust left, right channel volume.
- (2) LEVEL LEFT: in the system of 4000T II -2, the function is to control left channel volume. In the system of 4000T II -1, the function is to control full range input volume.
- (3) LOW: adjust left, right channel low volume.
- (4) MID: adjust left, right channel middle volume.
- (5) HIGH: adjust left, right channel high volume.
- (6) LEVEL RIGHT: in the system of 4000T II -2, control right volume.
- (7) FREQUENCY: adjust low crossover, from 50 to 250Hz, frequency cut in the speed of 24dB/OCT.
- (8) LEVEL SUB: adjust low volume .
- (9) OUTPUT CHOICE SWITCH: can use it choose the model you need.
- (10) GROUND: ground switch, can choose directly ground or lift.
- (11) SIG/LIMIT LEFT: left channel signal indicator (green) and compress indicator (red).
- (12) SIG/LIMIT RIGHT: right channel signal indicator (green) and compress indicator (red).

# BIEMA GOLD SANGPRO® SERIES 4000T II -1

## PROFESSIONAL SPEAKER 4000T II -2

- (13) POWER: power indicator .
- (14) SIG/LIMIT SUB: low signal indicator (green) and compress indicator (red).
- (15) PHASE: woof phase switch, press in is in-phase, press out is out-phase.

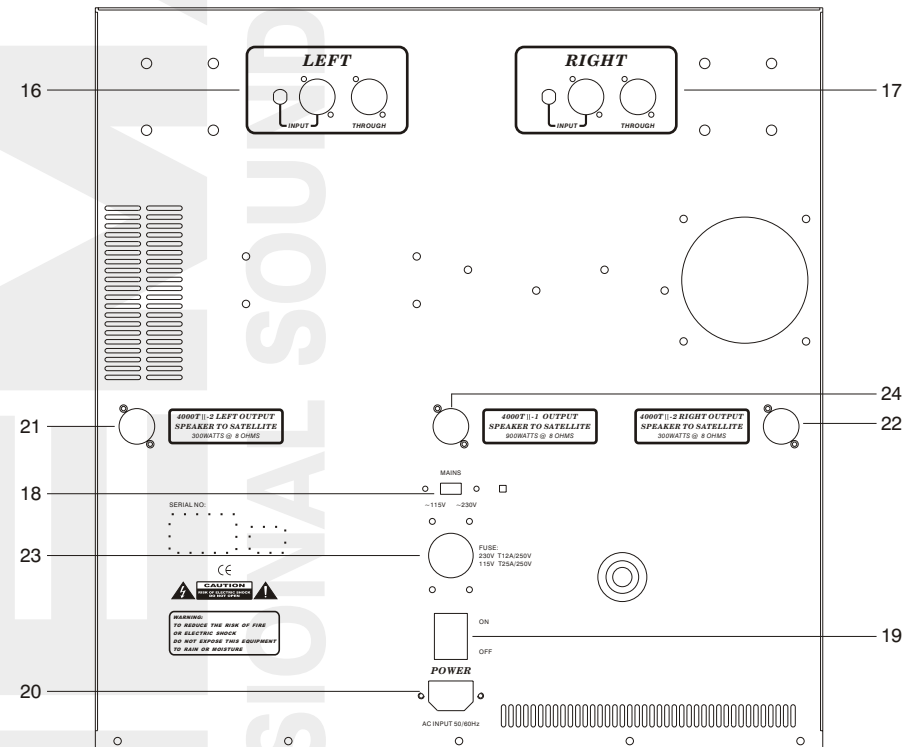


Fig. 2

- (16) LEFT SIGNAL INPUT (1/4" single plug or XLR) and line output (XLR).
- (17) RIGHT SIGNAL INPUT (1/4" single plug or XLR) and line output (XLR).
- (18) VOLTAGE SWITCH: the power of 115V or 230V can be used.
- (19) POWER SWITCH.
- (20) POWER INPUT SOCKET: input power can choose 115V/60Hz or AC 230V/50Hz.
- (21) Left channel full range amplifier output , SPEAKON can connect left channel satellite speaker. (only used for 4000T II -2 mode and connected to 2412/110a satellite speaker)
- (22) Right channel full range amplifier output, SPEAKON can connect right channel satellite speaker. (only used for 4000T II -2 mode and connected to 2412/110a satellite speaker)
- (23) FUSE: When use the power of 115V, use the fuse of T25A/250V, When use the power of 230V, Use the fuse of T12A/250V.
- (24) When use the system of 4000T II -1, the output of full range amplifier is available. The impedance of connected is 8 Ω. (only used for 4000T II -1 mode and connected to 4001/112a satellite speaker)

# BIEMA GOLD SANGPRO® SERIES 4000T II -1

## PROFESSIONAL SPEAKER 4000T II -2

### 4. TECHNICAL DATA AND INTRODUCTION

MODEL	4000T II -1 satellite(4001/112a)	4000T II -2 satellite(2412/110a)
Frequency response	60Hz-18KHz, ± 3dB	80Hz-18KHz, ± 3dB
Axial sensitivity 1W/1m	99dB	97dB
Maximum SPL@1m	129.5dB@10%THD	122dB@10%THD
Nominal impedance	8Ω	8Ω
Low/mid driver	1x12"	1x10"
HF driver	2"	1.5"
Directivity	H60° x V40°	H60° x V90°
Crossover frequency	2KHz; 12dB per octave	2KHz; 12dB per octave
HF protection(passive)	Bulb	Bulb
Power handling capacity	600W RMS	300W RMS
Connector	1xSpeakon@Neutrik NL 4(Red)	2xSpeakon@Neutrik NL 4(Black)

MODEL	4000T II sub woofer	
Frequency response	30-250Hz, ± 3dB	
Axial sensitivity 1W/1m	101dB	
Maximum SPL@1m	137.81dB@10%THD	
Bass woofer	P18W600x1	
Sub woofer power amp	900W RMS for bass	
Satellite power amp	4000T II -1	900W RMS for satellites(8Ω)
	4000T II -2	300Wx2 RMS for satellites(8Ω)
Active protection circuitry	Opto-limiter, subsonic filter	
Input sensitivity	0.775V	
Connectors	2x XLR through	
	2x Speakon(4000T II -2)@satellite out+ 1x Speakon(4000T II -1)@satellite out	
	2x XLR input	
EQ	Low	75Hz ±10dB
	Mid	1.3kHz ±10dB
	High	10kHz ±10dB
Low pass turning frequency	50-250Hz -3dB	

# BIEMA GOLD SANGPRO® SERIES 4000T II -1

## PROFESSIONAL SPEAKER 4000T II -2

### OWNER'S MANUAL

The information furnished in this manual does not include all of the details of design, production, or variations of the equipment, Not does it cover every possible situation that may arise during installation, operation or maintenance. If you need special assistance beyond the scope of this manual, please contact our Technical Support Group.

#### CAUTION

**RISK OF ELECTRIC SHOCK  
DO NOT OPEN**

TO PREVENT ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE REFERS SERVICING TO QUALIFIED SERVICE PERSONNEL.

#### MAGNETIC FIELD

CAUTION! Do not locate sensitive high-gain equipment such as preamplifiers or tape decks directly above or below the unit. Because this amplifier has a high power density, it has a strong magnetic field, which can induce hum into unshielded devices that are located nearby. The field is strongest just above and below the unit.

If an equipment rack is used, we recommend locating the amplifier(s) in the bottom of the rack and the preamplifier or other sensitive equipment of the top.

#### WATCH FOR THESE SYMBOLS:



The lightning bolt triangle is used to alert the user to risk of electric shock



The exclamation point triangle is used to alert the user to important operating or maintenance instructions.



#### WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE!

### 1. INTRODUCTION

BIEMA 4000T II serial compounding speakers system is the most popular big power but small cabinet, movable active speaker system in the international market. With its versatility, its convenience and easy handling, it adapt to a wide range of application areas.

4000T II -1 comprises a single 12" two-way full range speaker(4001/112a) and a single 18" sub-woofer. 4000T II -2 comprises two single 10" two-way full range speakers(2412/110a) and a single 18" sub-woofer. The sub-woofer meticulously equipped with a four-channel amplifier module, which enable the speaker having those functions as respective gain for high, mid and low range; total output control; PEQ control and crossover point control, the total power is above 1100W.

#### 1.MH-Limiter for mid/high-range power amp

- 1)Improved signal quality owing to lower distortion near threshold;
- 2)Reinforced the performance resulting from higher usable volume levels;
- 3)Applied studio technology to optimize the performance system;
- 4)Integrated with specialized limiter module to protect speaker from overload.

#### 2.LC-limiter for low-range power amp

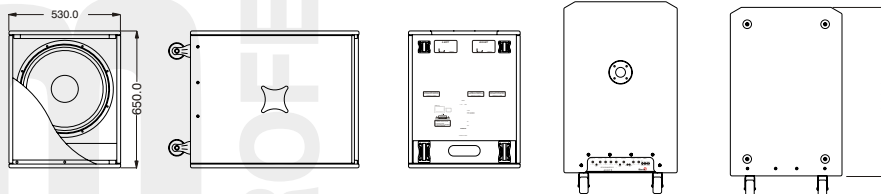
- 1)More low-end punch as more efficient energy is being used;
- 2)Protected the speakers from the damage of inharmonic distortion;
- 3)Meticulously matched with the low-range power amp.

#### 3.Three- band EQ for low/mid /high-range

- 1)Balanced the sound in different environments;
- 2)Perfectly matched to the sub-woofer;
- 3)Remarkable sound compensation make it good for studio as well as house parties.

#### 4.RF Frequency processing technology

- 1)Reduced self-noise;
- 2)Eliminated sound-destroying phase problems;
- 3)Perfectly matched to each system;



4000T II serial sub-woofer