

USER'S MANUAL



KLASIK

NEAR FIELD ACTIVE STUDIO MONITOR

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INTRODUCTION

Congratulations on your purchase of the APS KLASIK active studio monitor. KLASIK is designed to provide many years of excellent and trouble free audio reproduction. It is most important, however, that you take a few minutes to read this manual. It contains essential information to make you get the best from your new KLASIK.

KLASIK is a professional active studio monitor, designed for accurate sound realization.

This monitor is suitable for small/mid-sized:

- recording studios,
- broadcasting studios,
- TV studios,
- multimedia studios,
- post production facilities,
- mastering,
- digital workstations,
- home recording studios,
- audio monitoring systems of the highest quality.

KLASIK is a professional active studio monitor equipped with 19 mm metal dome tweeter, bass loudspeaker driver of 18 cm in diameter, class AB power amplifiers (each 75W at 8Ohm) mounted on the rear panel, there are also calibrated controls, protections and the input terminals.

KLASIK is designed for operation in stereophonic or multi-channel systems (5+1 or 7+1 and larger) such as DOLBY, DTS, THX, etc.

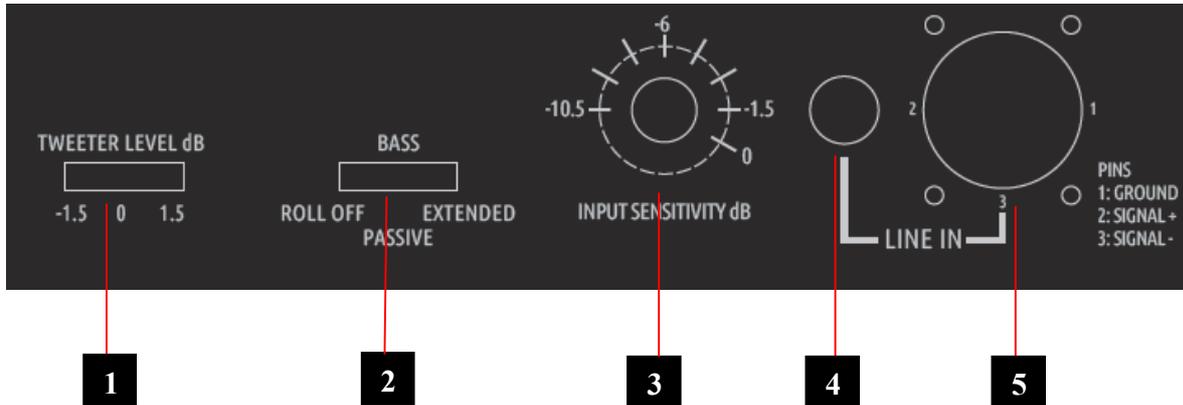


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REAR PANEL

Correct setup and placement in the room is essential to achieve optimal performance from your monitor. Please follow the instructions on the following pages.



1. Tweeter level 3-position switch (-1.5dB, flat 0 dB, + 1.5 dB)
2. 3-position switch – bass controller (see description page 6)
3. 8-position, precise switch – input sensitivity dB (step 1.5 dB)
4. Unbalanced input RCA
5. XLR symmetrical (balanced) input



6. GROUND LIFT switch

Inputs

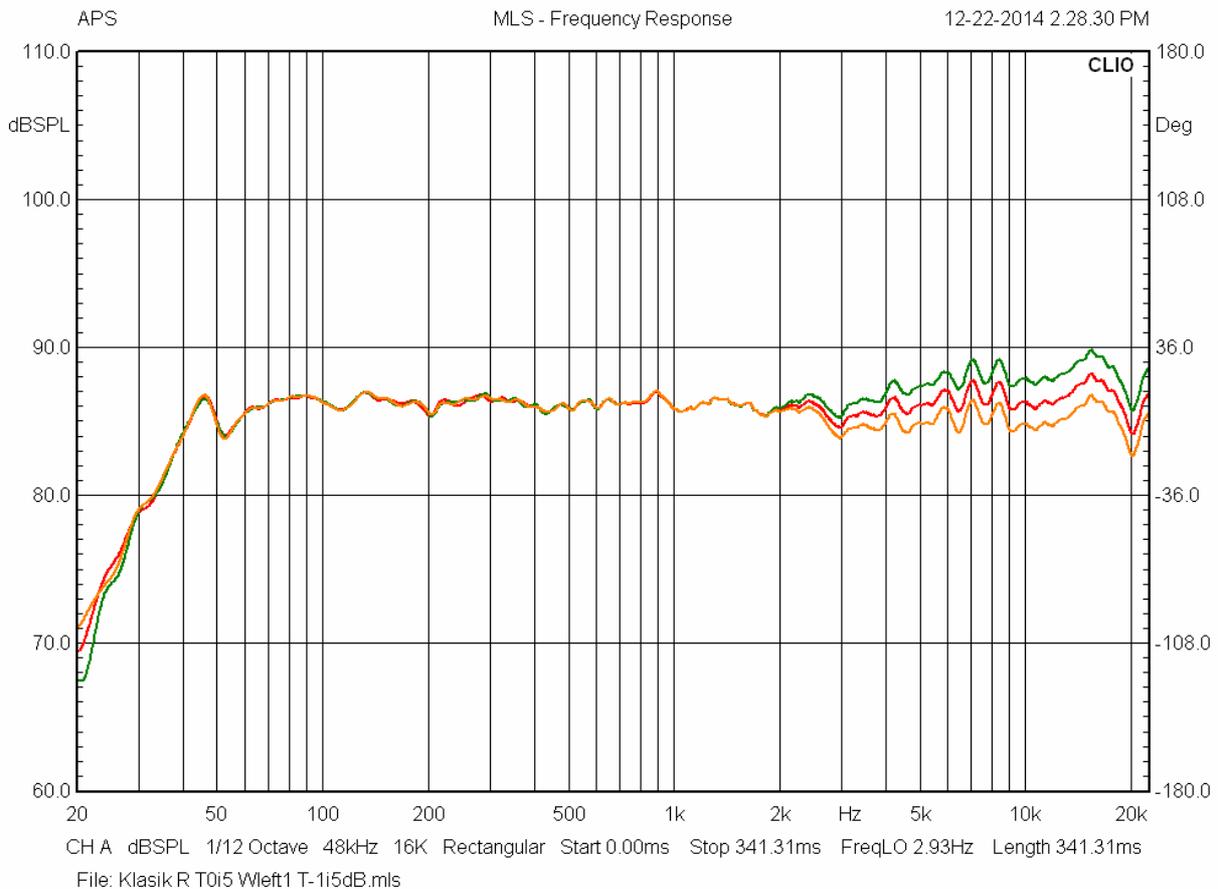
The KLASIK monitor is equipped with one balanced XLR input and also one unbalanced RCA input.

Switches

The monitor's rear panel features switches used to find the optimal settings of the device in order to work in a variety of acoustic and electric conditions. Each of the switches is described below.

1. TWEETER LEVEL 3-position switch

Measurement chart below shows how the tweeter level switch works. Green line represents + 1.5 dB position of the switch, red line represents 0 dB position of the switch, and the orange line represents -1.5 dB position of the switch.



Stimuli: Mls Clio at -10dBu.

Dimple, peak and dimple again in a range of 30-60Hz is an artifact of anechoic chamber; Klasik's frequency response is very smooth in this range.

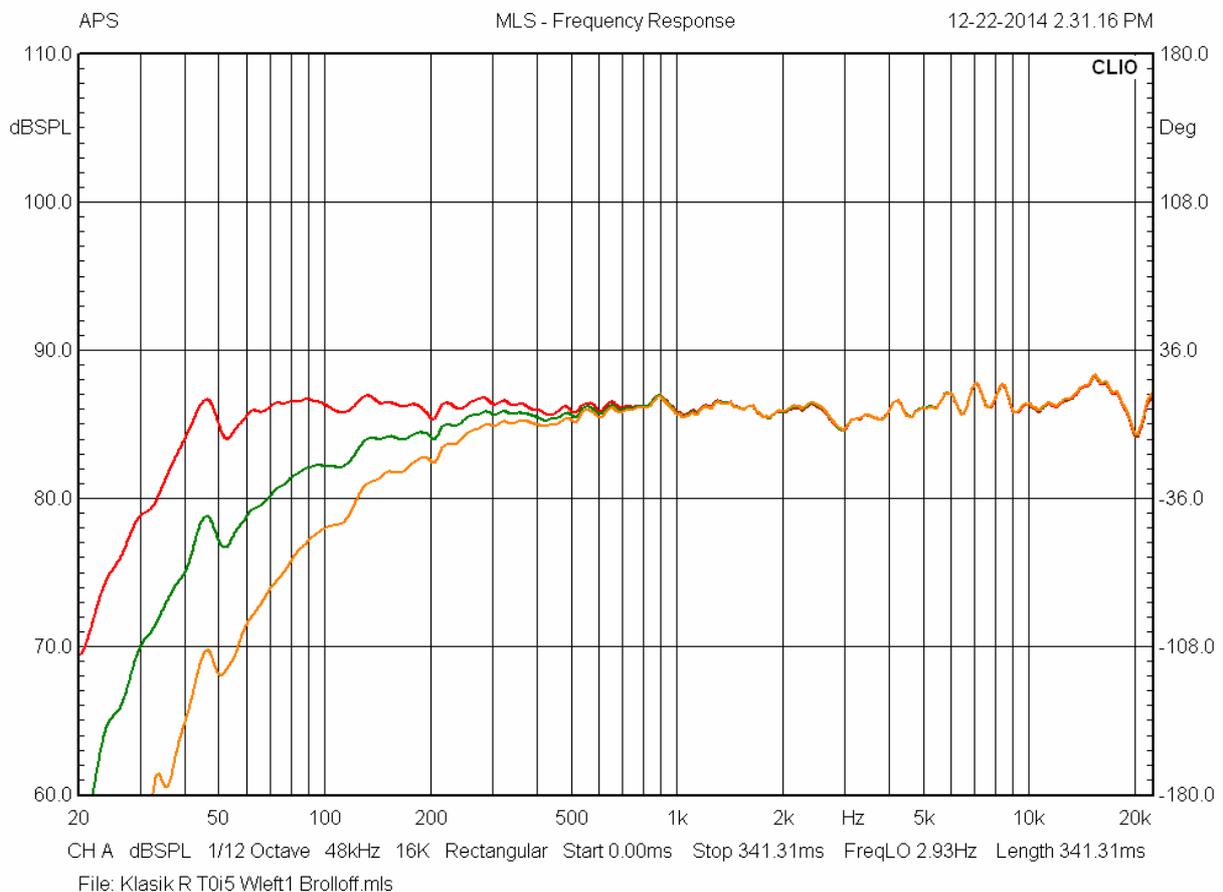
2. BASS CONTROLLER switch

Measurement chart below shows how the bass controller switch works. Red line represents the measurement result of monitor with bass controller switch set in EXTENDED position. We recommend to use KLASIK monitor set at this position as a starting point.

Green line represents the measurement result of monitor with bass controller set in PASSIVE position. This might be optimum solution for a system supported by active subwoofer.

Orange line represents the measurement result of monitor with bass controller set in ROLL OFF position. Room gain as well as the reflections of mixers and similar surfaces usually result in boosting of low frequencies and low mids.

With the bass controller set in ROLL OFF you can lessen this effect effectively. The ROLL OFF position is also suitable for a system with subwoofer.



Stimuli: Mls Clio at -10dBu.

Dimple, peak and dimple again in a range of 30-60Hz is an artifact of anechoic chamber; Klasik's frequency response is very smooth in this range.

3. INPUT SENSIVITY (VOLUME) switch

Fine-tuning the sensitivity of the KLASIK monitor, or simply its volume, is possible using the eight-position VOLUME switch.

The monitor is equipped with a switch instead of a potentiometer. This allows for, among other things, repeatable and reliable adjustment of the monitor sensitivity to the sensitivity of monitor speakers, or for repeating the same settings in subsequent monitors in the system, or restoring the settings used in the past.

The switching interval is 1.5dB.

With all calibrated regulators set in 0dB positions and bass controller set in EXTENDED position the SPL in Free Field @ 1m of KLASIK monitor is 96dB at 0dBu input signal level. SPLmax In Free Field @ 1m is 103dB..

KLASIK can be used with a variety of signal sources. The switches make it possible to precisely and evenly adjust the levels in each of the monitors in both a stereophonic and multichannel system.

KLASIK Active Studio Monitor

Field Monitor	Near
Type	Active – two power amplifiers – AB class:
System	Two-way
Crossover Frequency	3.2 kHz
Dimensions: Height × Width × Depth	32 cm × 21 cm × 28 cm / 12.6" x 8.3" x 11"
Free Field Frequency Response	± 2 dB: 35 Hz ÷ 25 kHz
SPL in Free Field @ 1m	RMS: 103 dB (single) Peak: 111 dB (pair)
Weight (single)	8,3 kg / 18 lbs
Loudspeakers	
Bass/Mid-Range Loudspeaker	φ 18 cm (7") Diaphragm: cellulose, surround: rubber
Tweeter Loudspeaker	φ 1.9 cm (3/4") aluminium dome (double magnet)
Amplifiers	
Bass/Mid-Range Power Amplifier	75 W RMS @ 8 Ω
Tweeter Power Amplifier	75 W RMS @ 8 Ω
THD Distortions	0.005 % – P _O = 5 W, f = 1 kHz 0.1 % max – P _O = 0.1 up to 50 W, f = 20 Hz up to 20 kHz
Input Voltage Level for 96 dB SPL In Free Field @ 1m	0 dBu (i.e. 0.775 V) – calibrated regulators in 0dB positions
Calibrated Controls	
Input Sensitivity Switch	-10.5dB, -9dB, -7.5dB, -6dB, -4.5dB, -3dB, -1.5dB, 0dB
Tweeter Loudspeaker Level Switch	-1.5dB, 0 dB, 1.5dB
Inputs	
Input	XLR symmetrical (balanced) RCA asymmetrical (unbalanced) Input impedance 10 kΩ
Protections	
Power Amplifiers Protections	Thermal, short circuit and over-current limiters
Prevention from Interferences and Hums	GROUND LIFT switch
Signaling Devices	
Power Switching On	Lit up green LED

SAFETY INSTRUCTIONS



The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. 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.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. 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.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.

Warning!

- ⇒ To reduce the risk of fire or electrical shock, do not expose this equipment to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the equipment.
- ⇒ This apparatus must be earthed.
- ⇒ Use a three wire grounding type line cord like the one supplied with the product.
- ⇒ Be advised that different operating voltages require the use of different types of line cord and attachment plugs.
- ⇒ Always observe the local safety regulations. Ensure that the factory-set power requirements for the device (refer to the label on the back of the monitor) corresponds to the mains supply in your region.
- ⇒ This equipment should be installed near the socket outlet and disconnection of the device should be easily accessible.
- ⇒ To completely disconnect from AC mains, disconnect the power supply cord from the AC receptacle.
- ⇒ The mains plug of the power supply shall remain readily operable.
- ⇒ Do not install in a confined space.
- ⇒ Do not open the unit - risk of electric shock inside.

MISCELLANEOUS

Care

Components of the high quality are used in your KLASIK monitor. This assures years of trouble free operation. Following precautions should still be made though. Avoid running the system into severe clipping. Even there is an advanced protection system, you may be able to destroy your monitor by severe overpowering.

When a noticeable distortion occurs, please turn down the level to your monitor. Avoid hot plugging the equipment connected to the monitor. Always turn off the monitor and other equipment when plugging or unplugging signals, or switching equipment on or off.

Do not touch the bass loudspeaker driver by hand.