

PROTECH®

Line Monitor *LM-400*

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.



Attention on safety

Please guard.

The case where it is used by professional Tec commodity common optional AC is contained.

It explains the guard without fail to prevent the damage to harm and the property to the person and other people who use it beforehand as follows.

- It divides in the following table, and it explains the level of harm and the damage caused when a usage wrong as the content of the display is disregarded is done.



	Warning	The column of this display is "The possibility of owing the death or the serious injury, etc. is assumed" content.
	Attention	The column of this display is "The possibility that only the possibility or the physical loss or damage in which the trouble is owed occurs is assumed" content.

- It divides by the following picture display, and it explains the kind of the guarded content. (The following are one picture display example.)

	Such a picture display is an attentive "Attention rousing" content that wants to hold.
	Such a picture display is "Prohibition" content that cannot be done.
	Such a picture display is "Compulsion" content executed without fail.






About the installation

 Warning

	It doesn't put it on an unstable place.		A heavy thing is not put on the power supply code.		It doesn't set it up in the water place.
Prohibition		Prohibition		Water place use prohibition	

About the processing in abnormal circumstances

 Warning

	When this machine is dropped or is damaged, the power on/off switch is cut.		When water etc. enter in this machine, the power on/off switch is cut.		When the foreign body enters in this machine, the power on/off switch is cut.
The power supply is pulled out.	The power supply is pulled out.	The power supply is pulled out.	The power supply is pulled out.	The power supply is pulled out.	
	Smoke has risen, and when it is abnormal of hearing a strange smell and the sound etc. the power on/off switch is cut.		When the power supply code hurts, it exchanges it.		
The power supply is pulled out.	Compulsion				

Attention on safety

Please guard.

About use



Warning

 <p>Neither a container where water entered on this machine nor a small metallic thing are put.</p> <p>Prohibition</p>	 <p>The foreign body is not inserted, and not dropped from the opening of the equipment.</p> <p>Prohibition</p>	 <p>This machine is not remodeled.</p> <p>Resolution prohibition</p>
 <p>It doesn't use it in the water place.</p> <p>Water place use prohibition</p>	 <p>Neither the back cap, the cabinet nor the cover, etc. of this machine are removed.</p> <p>Resolution prohibition</p>	 <p>It is done to wet the equipment and watertight.</p> <p>Prohibition</p>

About use



Attention

About maintenance

 <p>A heavy thing is not put on this machine.</p> <p>Prohibition</p>	 <p>It doesn't take this machine.</p> <p>Prohibition</p>	 <p>When maintaining it, the switch is turned off for safety.</p> <p>The power supply is pulled out.</p>
 <p>When not using it, the power supply is pulled out for safety.</p> <p>The power supply is pulled out.</p>	 <p>The power supply is pulled out, and an external code is removed when moving.</p> <p>The power supply is pulled out.</p>	 <p>The consultation of an internal cleaning is : to the shop about once a year.</p> <p>Compulsion</p>

About after-sales service

Our product is a free repair guarantee of one year.
(I hope the carriage etc. in the customer's share.)

It does to a repair for a fee for the commodity that passes a free guaranteed term.

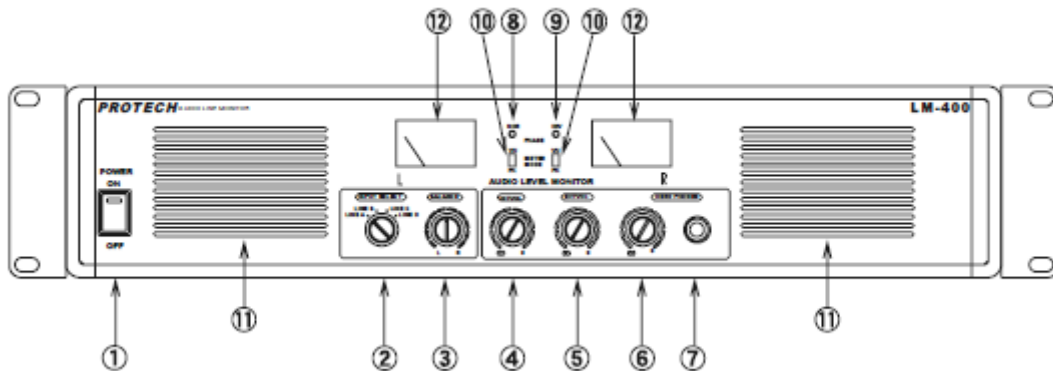
Please request the repair to the shop or our support center of purchase.

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Names and Functions of Parts

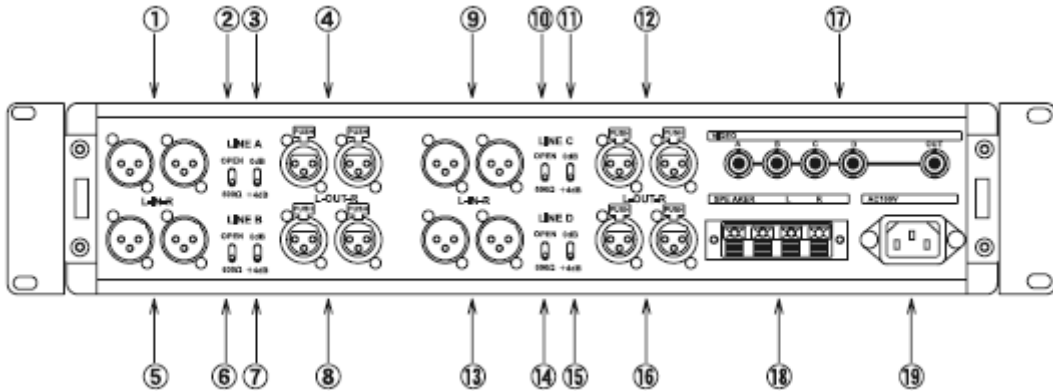
Main panel (Front panel)



- (1) Power switch
- (2) Monitor select switch
- (3) Monitor balance
- (4) Internal speaker volume
- (5) External monitor volume
- (6) Headphone level
- (7) Headphone jack
- (8) Phase display (Normal)
- (9) Phase display (Reverse)
- (10) Meter change switch
- (11) External speaker
- (12) Meter

Names and Functions of Parts

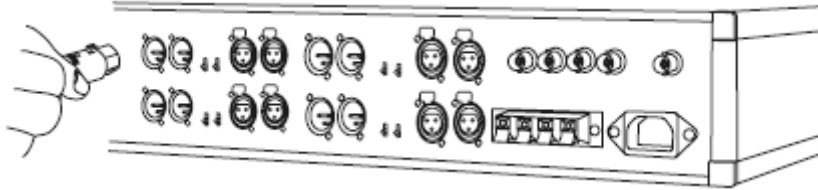
Rear panel



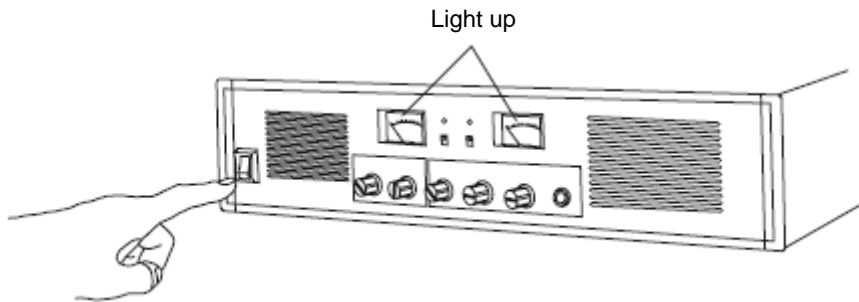
- (1) LINE A input
- (2) LINE A load switch
- (3) LINE A signal level
- (4) LINE A output
- (5) LINE B input
- (6) LINE B load switch
- (7) LINE B signal level
- (8) LINE B output
- (9) LINE C input
- (10) LINE C load switch
- (11) LINE C signal level
- (12) LINE C output
- (13) LINE D input
- (14) LINE D load switch
- (15) LINE D signal level
- (16) LINE D output
- (17) Video input/output connector
- (18) External speaker terminal
- (19) AC inlet

Main operation instructions

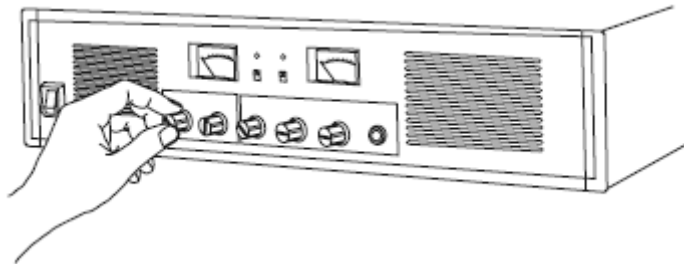
1. Connect audio cables to inputs of each CH. Set 600Ω if 600Ω is necessary. If 600Ω is not necessary, set it OPEN. Change LEVEL +4dB or 0dB according to input. If other DECK is connected via this equipment, connect through terminal of the output side.



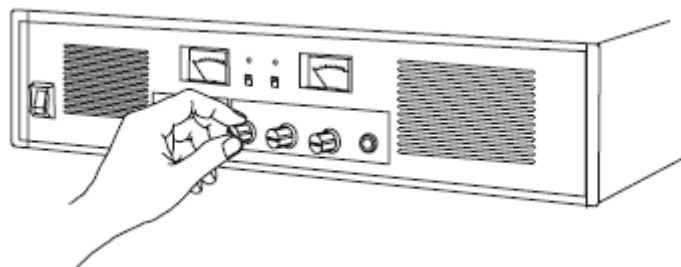
2. After the signal was connected correctly, connect AC cable and turn the power switch ON. After it, if LED of the power switch and the illumination of VU meter light up, power is ON normally.



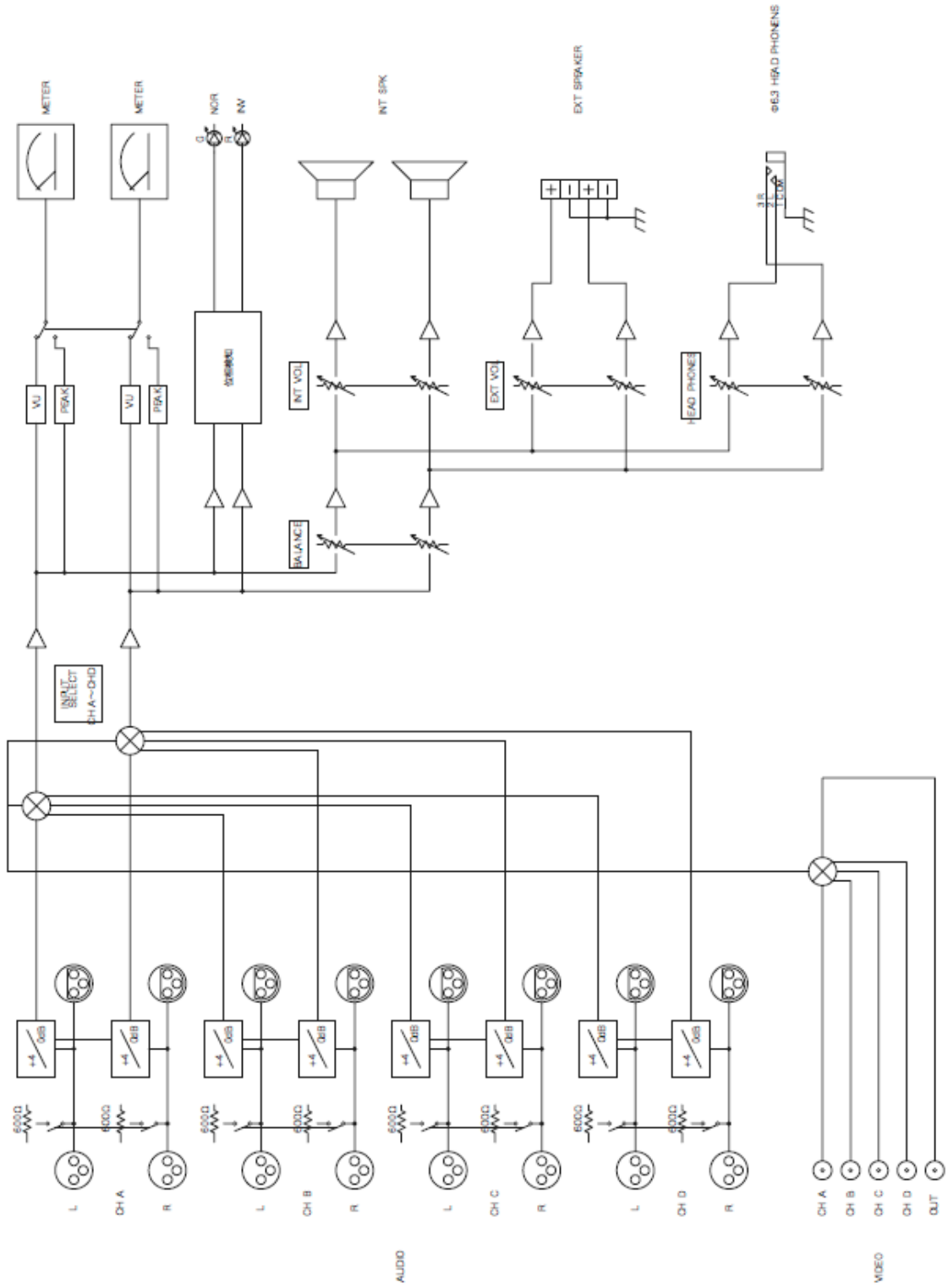
3. Select necessary CH by the change switch of CH A – CH D. Then the audio signal of the CH is displayed on VU meter. If the difference of the phase of 2 signals is over 100° , INVALED lights up and LR are reverse phase.



4. The audio sound of the selected CH can be heard from LR 2 speakers. According to necessity, adjust the audio level by VOL adjustment.



Block Diagram



Main Specifications

Input part	Canon 3P male 2CH (stereo)	x4
	BNC	x4
Output part	Canon 3P female 2CH (stereo)	x4
	BNC	x4
Function	Video Audio input change	x1
	Load change	600ohm/open x4
	Level change	+4dB/0dB x4
	VU meter	L, R x each1
	Phase display	CH A – CH D x1
	Speaker	L, R x each1
	VOL volume adjustment	x1
Power	Power	AC100 – 240V
General	Dimension	430x88x220mm (WxHxD)
	Weight	approx. 3kg
Accessory	AC cable, Rack-mount kit	