

YAMAHA

Natural Sound RF Demodulator

APD-1

OWNER'S MANUAL
MODE D'EMPLOI
BEDIENUNGSANLEITUNG
BRUKSANVISNING
MANUALE DI ISTRUZIONI
MANUAL DE INSTRUCCIONES
GEBRUIKSAANWIJZING
使用说明书

ENGLISH

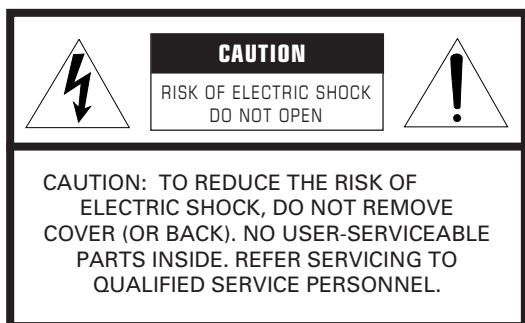
Thank you for selecting this YAMAHA RF demodulator.

This unit converts DOLBY DIGITAL AC-3 RF signal sent from a laserdisc player (with DOLBY DIGITAL AC-3 RF output) etc. to both optical and coaxial digital signals.

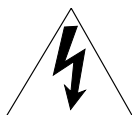
Digital signals converted in this unit are output from both the OPTICAL and COAXIAL digital signal output terminals respectively.

This unit is useful for connecting a laserdisc player etc. whose DOLBY DIGITAL AC-3 output is an RF output only to a Dolby Digital Decoder or an amplifier equipped with a Dolby Digital Decoder which does not have a DOLBY DIGITAL AC-3 RF signal input terminal.

SAFETY INSTRUCTIONS



• Explanation of Graphical Symbols



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert you 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 you to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

- 1 Read Instructions – All the safety and operating instructions should be read before the unit is operated.
- 2 Retain Instructions – The safety and operating instructions should be retained for future reference.
- 3 Heed Warnings – All warnings on the unit and in the operating instructions should be adhered to.
- 4 Follow Instructions – All operating and other instructions should be followed.
- 5 Water and Moisture – The unit should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.
- 6 Carts and Stands – The unit should be used only with a cart or stand that is recommended by the manufacturer.
- 6A A unit and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the unit and cart combination to overturn.



- 7 Wall or Ceiling Mounting – The unit should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8 Ventilation – The unit should be situated so that its location or position does not interfere with its proper ventilation. For example, the unit should not be situated on a bed, sofa, rug, or similar surface, that may block the ventilation openings; or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- 9 Heat – The unit should be situated away from heat sources such as radiators, stoves, or other appliances that produce heat.
- 10 Power Sources – The unit should be connected to a power supply only of the type described in the operating instructions or as marked on the unit.
- 11 Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- 12 Cleaning – The unit should be cleaned only as recommended by the manufacturer.
- 13 Nonuse Periods – The power cord of the unit should be unplugged from the outlet when left unused for a long period of time.
- 14 Object and Liquid Entry – Care should be taken so that objects do not fall into and liquids are not spilled into the inside of the unit.
- 15 Damage Requiring Service – The unit should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the unit; or
 - C. The unit has been exposed to rain; or
 - D. The unit does not appear to operate normally or exhibits a marked change in performance; or
 - E. The unit has been dropped, or the cabinet damaged.
- 16 Servicing – The user should not attempt to service the unit beyond those means described in the operating instructions. All other servicing should be referred to qualified service personnel.
- 17 Power Lines – An outdoor antenna should be located away from power lines.
- 18 Grounding or Polarization – Precautions should be taken so that the grounding or polarization is not defeated.

IMPORTANT

Please record the serial number of this unit in the space below.
Serial No.:
The serial number is located on the rear of the unit.
Retain this Owner's Manual in a safe place for future reference.

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby", "AC-3", and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

SPECIAL NOTES FOR FCC COMPOSITE DEVICE (for US customers only)

This device is a composite system. The digital device component may not cause harmful interference.

FCC INFORMATION (for US customers only)

1. IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT!

This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.

2. IMPORTANT : When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.

3. NOTE : This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620.

The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries.

CAUTION (FOR CANADA MODEL)

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT.

FOR CANADIAN CUSTOMER

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

We Want You Listening For A Lifetime (for US customers only)

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion – and, most importantly, without affecting your sensitive hearing.

Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



CAUTION : READ THIS BEFORE OPERATING YOUR UNIT.

1. To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference.
2. Install this unit in a cool, dry, clean place – away from windows, heat sources, sources of excessive vibration, dust, moisture and cold. Avoid sources of humming (transformers, motors). To prevent fire or electrical shock, do not expose the unit to rain or water.
3. Never open the cabinet. If something drops into the set, contact your dealer.
4. Do not use force on switches, controls or connection wires. When moving the unit, first disconnect the power plug and the wires connected to other equipment. Never pull the wires themselves.
5. Digital signals generated by the unit may interfere with other equipment such as tuners, receivers or TVs. Move the system farther away from such equipment if interference is observed.
6. Do not attempt to clean the unit with chemical solvents; this might damage the finish. Use a clean, dry cloth.
7. When not planning to use this unit for long periods of time (ie., vacation, etc.), disconnect the AC power plug from the wall outlet.
8. To prevent lightning damage, disconnect the AC power plug and disconnect the antenna cable when there is an electrical storm.
9. Grounding or polarization – Precautions should be taken so that the grounding or polarization of an appliance is not defeated.
10. The voltage to be used must be the same as that specified on this unit. Using this unit with a higher voltage than that which is specified is dangerous and may result in a fire or other type of accident causing damage. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than that which is specified.
11. **Voltage Selector (General Model only)**
The voltage selector on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC main supply.
Voltages are 110-120/220-240 V AC, 50/60 Hz.

For U.K. customers

If the socket outlets in the home are not suitable for the plug supplied with this appliance, it should be cut off and an appropriate 3 pin plug fitted. For details, refer to the instructions described below.

Note: The plug severed from the mains lead must be destroyed, as a plug with bared flexible cord is hazardous if engaged in a live socket outlet.

Special Instructions for U.K. Model

IMPORTANT

THE WIRES IN THE MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE:

Blue: NEUTRAL

Brown: LIVE

As the colours of the wires in the main lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK. The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED. Make sure that neither core is connected to the earth terminal of the three pin plug.

The apparatus is not disconnected from the AC power source as long as it is connected to the wall outlet, even if the apparatus itself is turned off.

CONNECTIONS

Never plug in this unit and other components until all connections are completed.

Example of Connections (See Fig. 1 on page 8)

- 1 Laserdisc player with DOLBY DIGITAL AC-3 RF output or another unit with DOLBY DIGITAL AC-3 RF output
- 2 Dolby Digital Decoder or amplifier equipped with Dolby Digital Decoder
- 3 Coaxial cable (included)
- 4 Coaxial cable (not included)
- 5 Optical fiber cable (not included)
- 6 To AC outlet

* For connecting to the Dolby Digital Decoder or the amplifier, use either the OPTICAL or COAXIAL cable connection.

* Digital signals are output from both the OPTICAL and COAXIAL DIGITAL OUT terminals of this unit respectively.

Notes

- For connecting to the OPTICAL terminal, use an optical fiber cable that conforms to EIAJ standards. Other cables might not function correctly.
- Be sure to attach the OPTICAL terminal's cover when this terminal is not being used, in order to protect the terminal from dust.

SPECIFICATIONS

Input (RF)	75 ohms
Output (Coaxial)	0.5 Vp-p, 75 ohms
Power requirements	
U.S.A. and Canada models	120V, 60 Hz
Australia model	240V, 50 Hz
Europe and U.K. models	230V, 50 Hz
General model	110-120/220-240V, 50/60 Hz
Power consumption	8W
Dimensions (W x H x D)	100 x 62.4 x 132.5 mm (3-15/16" x 2-7/16" x 5-3/16")
Weight	0.8 kg (1 lbs. 12 oz.)
Accessories	Coaxial cable x 1

BRANCHEMENTS

Ne jamais brancher cet appareil et les autres composants avant d'avoir complètement effectué tous les raccordements.

Exemple de branchements (Voir l'illustration 1 de la page 8.)

- 1 Lecteur de disques laser avec sortie DOLBY DIGITAL AC-3 RF ou autre appareil avec sortie DOLBY DIGITAL AC-3 RF
- 2 Décodeur numérique Dolby ou amplificateur équipé d'un décodeur numérique Dolby
- 3 Câble coaxial (inclus)
- 4 Câble coaxial (non inclus)
- 5 Câble à fibres optiques (non inclus)
- 6 Vers la prise secteur

* Pour ce qui concerne le branchement du décodeur numérique Dolby ou de l'amplificateur, utiliser la connexion de câble OPTICAL ou bien COAXIAL.

* Des signaux numériques sont émis respectivement des bornes OPTICAL et COAXIAL DIGITAL OUT de cet appareil.

Remarques

- Pour raccorder la borne OPTICAL, utiliser un câble à fibres optiques conforme aux normes EIAJ. Les autres câbles risquent de ne pas fonctionner correctement.
- Veiller à fixer le couvercle de la borne OPTICAL lorsque cette borne n'est pas utilisée, afin de protéger la borne contre la poussière.

SPECIFICATIONS

Entrée (RF)	75 ohms
Sortie (Coaxial)	0.5 Vc.c, 75 ohms
Alimentation	
Modèles pour les Etats-Unis et le Canada	120V, 60 Hz
Modèle pour l'Australie	240V, 50 Hz
Modèles pour l'Europe et le Royaume-Uni	230V, 50 Hz
Modèle général	110-120/220-240V, 50/60 Hz
Consommation	8W
Dimensions (L x H x P)	100 x 62,4 x 132,5 mm
Poids	0,8 kg
Accessoires	Câble coaxial x 1

ANSCHLÜSSE

Schließen Sie dieses Gerät und die anderen Komponenten erst an einer Netzsteckdose an, nachdem alle Anschlüsse gemacht worden sind.

Anschlußbeispiel (siehe Abb. 1 auf Seite 8)

- 1 Laserdisc-Player oder anderes Gerät mit HF-Ausgang DOLBY DIGITAL AC-3
- 2 Dolby-Digital-Dekoder oder Verstärker, der Dolby-Digital-Dekoder ausgerüstet ist
- 3 Koaxialkabel (mitgeliefert)
- 4 Koaxialkabel (nicht mitgeliefert)
- 5 Lichtleiterkabel (nicht mitgeliefert)
- 6 zur Netzsteckdose

* Verwenden Sie Kabelanschluß "OPTICAL" oder "COAXIAL" für den Anschluß an einem Dolby-Digital-Dekoder oder Verstärker.

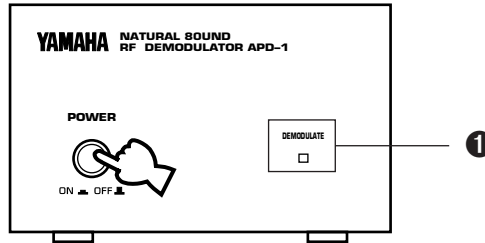
* Die digitalen Signale liegen sowohl an den Buchsen OPTICAL als auch COAXIAL DIGITAL OUT dieses Gerätes an.

Hinweise

- Für den Anschluß an der Buchse "OPTICAL" muß ein Lichtleiterkabel verwendet werden, das der EIAJ-Norm entspricht. Bei anderen Kabeln können Störungen auftreten.
- Bringen Sie an der Buchse "OPTICAL" zum Schutz vor Staubeintritt die Abdeckung an, falls die Buchse nicht verwendet wird.

TECHNISCHE DATEN

Eingang [RF (HF)]	75 Ohm
Ausgang (koaxial)	0,5 Vp-p, 75 Ohm
Spannungsversorgung	
USA- und Kanada-Modell	120V, 60 Hz
Australien-Modell	240V, 50 Hz
Europa- und Großbritannien-Modell	230V, 50 Hz
Allgemeines Modell	110-120/220-240V, 50/60 Hz
Leistungsaufnahme	8W
Abmessungen (B x H x T)	100 x 62,4 x 132,5 mm
Gewicht	0,8 kg
Zubehörteile	Koaxialkabel x 1



ENGLISH

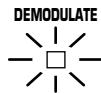
TURNING THE POWER ON/OFF

When you use this unit, depress the **POWER** switch on the front panel inward (on).

When you finish using this unit, press the **POWER** switch to release it outward (off).

① DEMODULATE indicator

* This indicator lights up when this unit is demodulating input signals normally.



ITALIANO

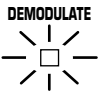
ATTIVAZIONE E DISATTIVAZIONE DEL DISPOSITIVO

Per poter utilizzare questo dispositivo premere in dentro (attivazione) il tasto **POWER**, ubicato sul pannello anteriore.

Terminato l'uso del dispositivo, premere di nuovo il tasto **POWER** per farlo fuoriuscire (disattivazione).

① Indicazione di demodulazione (DEMODULATE)

* L'indicazione si illumina quando l'apparecchio demodula normalmente i segnali in ingresso.



FRANÇAIS

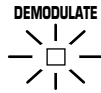
MISE SOUS/HORS TENSION DE L'APPAREIL

Lorsqu'on utilise cet appareil, enfoncer l'interrupteur **POWER** situé sur le panneau avant (sous tension).

Lorsqu'on a fini d'utiliser cet appareil, appuyer sur l'interrupteur **POWER** de manière à le refaire sortir vers l'extérieur (hors tension).

① Témoin DEMODULATE

* Ce témoin s'allume lorsque cet appareil démodule normalement les signaux d'entrée.



ESPAÑOL

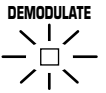
ENCENDIDO/APAGADO DEL APARATO

Para usar este aparato, presione hacia adentro el interruptor **POWER** del panel de control.

Para dejar de usar este aparato, presione el interruptor **POWER** del panel de control de manera que el interruptor quede hacia afuera.

① Indicador DEMODULATE

* Este indicador se enciende cuando el aparato está demodulando normalmente las señales de entrada.



DEUTSCH

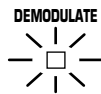
EIN- UND AUSSCHALTEN DES GERÄTES

Drücken Sie zum Einschalten den Netzschalter (**POWER**) an der Frontseite in die eingerastete Stellung (on).

Drücken Sie zum Ausschalten den Netzschalter (**POWER**) nochmals, um den Schalter auszuschalten (off).

① Anzeige DEMODULATE

* Diese Anzeige leuchtet während dem normalen Demodulieren von Eingangssignalen.



NEDERLANDS

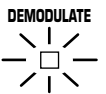
IN- EN UITSCHAKELEN

Druk wanneer u dit apparaat gaat gebruiken de **POWER** schakelaar op het voorpaneel naar binnen (aan).

Druk wanneer u het gebruik van dit apparaat gaat beëindigen de **POWER** schakelaar in zodat deze terug naar buiten springt (uit).

① DEMODULATE indicator

* Deze indicator licht op wanneer dit apparaat de ingangssignalen op de normale wijze demoduleert.



SVENSKA

ATT SLÅ PÅ OCH AV STRÖMMEN

När du använder denna enhet, tryck in **POWER**-knappen på frampanelen (till).

När du slutat använda denna enhet, tryck åter på **POWER**-knappen så att den kommer ut (av).

① DEMODULATE-indikator

* Denna indikator tänds när enheten demodulerar ingångssignalerna normalt.

