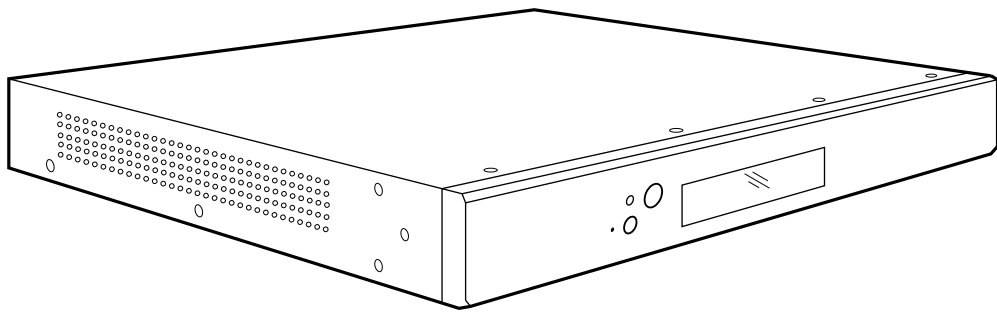
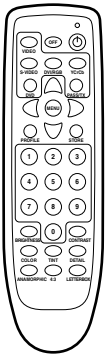


Machine Models Compatible for Connection with this Product		Appareils compatibles pouvant être connectés à ce produit	
DLA-HD2K Series	DLA-HD10K Series	Séries DLA-HD2K	Séries DLA-HD10K
<p>This product (LD-HD2KBU/LD-HD2KBE) is exclusively for the above-mentioned model. The performance cannot be guaranteed when using with other models.</p> <p>This processor is used as a dedicated machine and this manual (instruction manual) may contain description of features as well as specifications not used by the processor.</p>	<p>This product (LD-HD2KBU/LD-HD2KBE) is exclusively for the above-mentioned model. The performance cannot be guaranteed when using with other models.</p> <p>This processor is used as a dedicated machine and this manual (instruction manual) may contain description of features as well as specifications not used by the processor.</p>	<p>Ce produit (LD-HD2KBU/LD-HD2KBE) est compatible uniquement avec le modèle indiqué ci-dessus. Il est impossible de garantir la performance avec d'autres modèles.</p> <p>Ce processeur doit être utilisé tel un appareil spécialisé; il est possible que certaines des fonctions et spécifications décrites dans le présent manuel de directives ne puissent pas être utilisées avec ce processeur.</p>	<p>Ce produit (LD-HD2KBU/LD-HD2KBE) est compatible uniquement avec le modèle indiqué ci-dessus. Il est impossible de garantir la performance avec d'autres modèles.</p> <p>Ce processeur doit être utilisé tel un appareil spécialisé; il est possible que certaines des fonctions et spécifications décrites dans le présent manuel de directives ne puissent pas être utilisées avec ce processeur.</p>

## DIGITAL VIDEO PROCESSOR PROCESSEUR VIDÉO NUMÉRIQUE

# LD-HD2KBU LD-HD2KBE

## INSTRUCTIONS MANUEL D'INSTRUCTIONS



**D-ILA®**

**For Customer use :**

Enter below the serial No. which is located on the side panel of the cabinet. Retain this information for future reference.

Model No. LD-HD2KBU

Serial No. \_\_\_\_\_

**Pour utilisation par le client :**

Entrer ci-dessous le N° de série qui est situé sur le panneau latéral du coffret. Garder cette information comme référence pour le futur.

N° de modèle LD-HD2KBU

N° de série \_\_\_\_\_

# SAFETY PRECAUTIONS

## IMPORTANT INFORMATION

**WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

### CAUTION:

To reduce the risk of electric shock, do not remove cover. Refer servicing to qualified service personnel.

This product is equipped with a 3-blade grounding type plug to satisfy UL, CUL, TUV, FCC rules.

If you are unable to insert the plug into the outlet, contact your electrician.

## FCC INFORMATION (U.S.A. ONLY)

### CAUTION:

Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

### About the installation place

Do not install the processor in a place that cannot support its weight securely, or that does not allow for proper heat ventilation.

## IMPORTANT SAFEGUARDS

**IMPROPER USE OF THIS EQUIPMENT CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD.**

In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use and service.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be followed and retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
- Do not use attachments not recommended by the product manufacturer as they may be hazardous.
- Do not use this product near water. Do not use immediately after moving from a low temperature to high temperature, as this causes condensation, which may result in fire, electric shock, or other hazards.
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.
- When the product is used on a cart, care should be taken to avoid quick stops, excessive force, and uneven surfaces which may cause the product and cart to overturn, damaging equipment or causing possible injury to the operator.
- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered. (The openings should never be blocked by placing the product on bed, sofa, rug, or similar surface. It should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided and the manufacturer's instructions have been adhered to.)
- This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.
- This product is equipped with a three-wire plug. This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.
- 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. Pay particular attention to cords at doors, plugs, receptacles, and the point where they exit from the product.
- For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges.

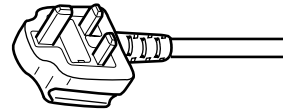
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
- Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.
- Unplug this product from the wall outlet and refer service to qualified service personnel under the following conditions:
  - a) When the power supply cord or plug is damaged.
  - b) If liquid has been spilled, or objects have fallen on the product.
  - c) If the product has been exposed to rain or water.
  - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the Operation Manual, as an improper adjustment of controls may result in damage and will often require extensive work by a qualified technician to restore the product to normal operation.
  - e) If the product has been dropped or damaged in any way.
  - f) When the product exhibits a distinct change in performance – this indicates a need for service.
- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or with same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
- The product should be placed more than one foot away from heat sources such as radiators, heat registers, stoves, and other products (including amplifiers) that produce heat.
- When connecting other products such as VCR's, and personal computers, you should turn off the power of this product for protection against electric shock.
- Use only the accessory cord designed for this product to prevent shock.

The power supply voltage rating of this product is AC 120 V, AC 100 V - AC 240 V, the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC. When it is used by other power supply voltage, power cable must be changed.

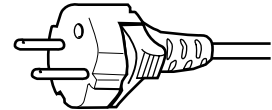
Ensure that the power cable used for the projector is the correct type for the AC outlet in your country.

Consult your product dealer.

#### Power cord

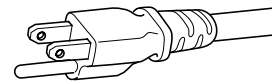


For United Kingdom



For European continent countries

#### Power cord



Power supply voltage: AC 120 V

**\*DO NOT allow any unqualified person to install the unit.**

Be sure to ask your dealer to install the unit since special technical knowledge and skills are required for installation and connection to multiple devices.

If installation is performed by an unqualified person, it may cause personal injury or electrical shock.

#### Precautions for using the screen terminal

Connect the cable to the screen before using the screen terminal of this unit.

Signal with DC+12 V/100 mA max. is output from the screen terminal of this unit.

Short-circuit will result in malfunction, fire and electric shock. Leave the connection of the wires to the installation contractor.

## ENGLISH

### Information for Users on Disposal of Old Equipment

**Attention:**

This symbol is only valid in the European Union.



**[European Union]**

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

**(Business users)**

If you wish to dispose of this product, please visit our web page [www.jvc-europe.com](http://www.jvc-europe.com) to obtain information about the take-back of the product.

**[Other Countries outside the European Union]**

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

## FRANÇAIS

### Informations relatives à l'élimination des appareils usagés, à l'intention des utilisateurs

**Attention:**

Ce symbole n'est reconnu que dans l'Union européenne.



**[Union européenne]**

Lorsque ce symbole figure sur un appareil électrique et électronique, cela signifie qu'il ne doit pas être éliminé en tant que déchet ménager à la fin de son cycle de vie. Le produit doit être porté au point de pré-collecte approprié au recyclage des appareils électriques et électroniques pour y subir un traitement, une récupération et un recyclage, conformément à la législation nationale.

En éliminant correctement ce produit, vous contribuez à la conservation des ressources naturelles et à la prévention des éventuels effets négatifs sur l'environnement et la santé humaine, pouvant être dus à la manipulation inappropriée des déchets de ce produit. Pour plus d'informations sur le point de pré-collecte et le recyclage de ce produit, contactez votre mairie, le service d'évacuation des ordures ménagères ou le magasin dans lequel vous avez acheté le produit.

Des amendes peuvent être infligées en cas d'élimination incorrecte de ce produit, conformément à la législation nationale.

**(Utilisateurs professionnels)**

Si vous souhaitez éliminer ce produit, visitez notre page Web [www.jvc-europe.com](http://www.jvc-europe.com) afin d'obtenir des informations sur sa récupération.

**[Pays ne faisant pas partie de l'Union européenne]**

Si vous souhaitez éliminer ce produit, faites-le conformément à la législation nationale ou autres règles en vigueur dans votre pays pour le traitement des appareils électriques et électroniques usagés.

## DEUTSCH

### Benutzerinformationen zur Entsorgung alter Geräte

**Hinweis:**

Dieses Symbol ist nur in der Europäischen Union gültig.



**[Europäische Union]**

Dieses Symbol zeigt an, dass das elektrische bzw. elektronische Gerät nicht als normaler Haushaltsabfall entsorgt werden soll. Stattdessen sollte das Produkt zur fachgerechten Entsorgung, Weiterverwendung und Wiederverwertung in Übereinstimmung mit der Landesgesetzgebung einer entsprechenden Sammelstelle für das Recycling elektrischer und elektronischer Geräte zugeführt werden. Die korrekte Entsorgung dieses Produkts dient dem Umweltschutz und verhindert mögliche Schäden für die Umwelt und die menschliche Gesundheit, welche durch unsachgemäße Behandlung des Produkts auftreten können. Weitere Informationen zu Sammelstellen und dem Recycling dieses Produkts erhalten Sie bei Ihrer Gemeindeverwaltung, Ihrem örtlichen Entsorgungsunternehmen oder in dem Geschäft, in dem Sie das Produkt gekauft haben. Für die nicht fachgerechte Entsorgung dieses Abfalls können gemäß der Landesgesetzgebung Strafen ausgesprochen werden.

**(Geschäftskunden)**

Wenn Sie dieses Produkt entsorgen möchten, besuchen Sie bitte unsere Webseite [www.jvc-europe.com](http://www.jvc-europe.com), um Informationen zur Rücknahme des Produkts zu erhalten.

**[Andere Länder außerhalb der Europäischen Union]**

Wenn Sie dieses Produkt entsorgen möchten, halten Sie sich dabei bitte an die entsprechenden Landesgesetze und andere Regelungen in Ihrem Land zur Behandlung elektrischer und elektronischer Geräte.

## NEDERLANDS

### Informatie voor gebruikers over het weggooien van oude apparatuur

**Let op:**

Dit symbool is alleen geldig in de Europese Unie.



**[Europese Unie]**

Deze markering geeft aan dat de elektrische en elektronische apparatuur bij het einde van de gebruiksduur niet bij het huishoudelijk afval mag worden gegooid. Het product moet in plaats daarvan worden ingeleverd bij het relevante inzamelingspunt voor hergebruik van elektrische en elektronische apparatuur, voor juiste verwerking, terugwinning en hergebruik in overeenstemming met uw nationale wetgeving.

Door dit product naar het inzamelingspunt te brengen, werkt u mee aan het behoud van natuurlijke hulpbronnen en met het voorkomen van potentiële negatieve effecten op het milieu en de volksgezondheid, die anders veroorzaakt zouden kunnen worden door onjuiste afvalverwerking van dit product. Neem voor meer informatie over inzamelingspunten en hergebruik van dit product contact op met de gemeente in uw woonplaats, het afvalverwerkingsbedrijf of de winkel waar u het product hebt aangeschaft.

Er kunnen boetes gelden voor een onjuiste verwijdering van dit afval, in overeenstemming met de nationale wetgeving.

**(Zakelijke gebruikers)**

Bezoek als u dit product wilt weggooien onze website [www.jvc-europe.com](http://www.jvc-europe.com) voor informatie over het terugnemen van het product.

**[Landen buiten de Europese Unie]**

Wanneer u dit product wilt verwijderen, houdt u dan aan de geldende nationale wetgeving of andere regels in uw land voor de verwerking van oude elektrische en elektronische apparatuur.

## ESPAÑOL

**Información para los usuarios sobre la eliminación de equipos usados****Atención:**

Este símbolo sólo es válido en la Unión Europea.

**[Unión Europea]**

Este símbolo indica que los aparatos eléctricos y electrónicos no deben desecharse junto con la basura doméstica al final de su vida útil. El producto deberá llevarse al punto de recogida correspondiente para el reciclaje y el tratamiento adecuado de equipos eléctricos y electrónicos de conformidad con la legislación nacional. Si desecha el producto correctamente, estará contribuyendo a conservar los recursos naturales y a prevenir los posibles efectos negativos en el medio ambiente y en la salud de las personas que podría causar el tratamiento inadecuado del producto desechado. Para obtener más información sobre el punto de recogida y el reciclaje de este producto, póngase en contacto con su oficina municipal, su servicio de recogida de basura doméstica o la tienda en la que haya adquirido el producto. De acuerdo con la legislación nacional, podrían aplicarse multas por la eliminación incorrecta de estos desechos.

**(Empresas)**

Si desea desechar este producto, visite nuestra página Web [www.jvc-europe.com](http://www.jvc-europe.com) para obtener información acerca de la retirada del producto.

**[Otros países no pertenecientes a la Unión Europea]**

Si desea desechar este producto, hágalo de conformidad con la legislación nacional vigente u otras normativas de su país para el tratamiento de equipos eléctricos y electrónicos usados.

## PORTUGUÊS

**Informações para os Utilizadores sobre a Eliminação de Equipamento Antigo****Atenção:**

Este símbolo apenas é válido na União Europeia.

**[União Europeia]**

Este símbolo indica que o equipamento eléctrico e electrónico não deve ser eliminado como um resíduo doméstico geral, no fim da respectiva vida útil. Pelo contrário, o produto deve ser entregue num ponto de recolha apropriado, para efectuar a reciclagem de equipamento eléctrico e electrónico e aplicar o tratamento, recuperação e reciclagem adequados, de acordo com a respectiva legislação nacional.

Ao eliminar este produto da forma correcta, ajudará a conservar recursos naturais e ajudará a evitar potenciais efeitos negativos no ambiente e saúde humana, que poderiam ser causados pelo tratamento residual inadequado deste produto. Para mais informações sobre o ponto de recolha e reciclagem deste produto, contacte a respectiva entidade local, o serviço de eliminação de resíduos ou a loja onde adquiriu o produto.

Caso estes resíduos não sejam correctamente eliminados, poderão ser aplicadas penalizações, em conformidade com a respectiva legislação nacional.

**(utilizadores profissionais)**

Se pretender eliminar este produto, visite a nossa página da web em [www.jvc-europe.com](http://www.jvc-europe.com) para obter informações sobre a devolução do produto.

**[Outros países fora da União Europeia]**

Se pretender eliminar este produto, faça-o de acordo com a legislação nacional aplicável ou outras regras no seu país para o tratamento de equipamento eléctrico e electrónico velho.

## ITALIANO

**Informazioni per gli utenti sullo smaltimento delle apparecchiature obsolete****Attenzione:**

Questo simbolo è valido solo nell'Unione Europea.

**[Unione Europea]**

Questo simbolo indica che l'apparecchiatura elettrica ed elettronica a cui è relativo non deve essere smaltita tra i rifiuti domestici generici alla fine della sua vita utile. Il prodotto, invece, va consegnato a un punto di raccolta appropriato per il riciclaggio di apparecchiature elettriche ed elettroniche, per il trattamento, il recupero e il riciclaggio corretti, in conformità alle proprie normative nazionali.

Mediante lo smaltimento corretto di questo prodotto, si contribuirà a preservare le risorse naturali e a prevenire potenziali effetti negativi sull'ambiente e sulla salute umana che potrebbero essere provocati, altrimenti, da uno smaltimento inappropriato del prodotto. Per ulteriori informazioni sul punto di raccolta e il riciclaggio di questo prodotto, contattare la sede comunale locale, il servizio di smaltimento rifiuti domestici o il negozio in cui si è acquistato il prodotto.

L'utente è responsabile del conferimento dell'apparecchio a fine vita alle appropriate strutture di raccolta, pena le sanzioni previste dalla vigente legislazione sui rifiuti.

**(Per gli utenti aziendali)**

Qualora si desideri smaltire questo prodotto, visitare la nostra pagina web [www.jvc-europe.com](http://www.jvc-europe.com) per ottenere informazioni sul ritiro del prodotto.

**[Per altre nazioni al di fuori dell'Unione Europea]**

Qualora si desideri smaltire questo prodotto, effettuare lo smaltimento in conformità alla normativa nazionale applicabile o alle altre leggi della propria nazione relative al trattamento delle apparecchiature elettriche ed elettroniche obsolete.

## ΕΛΛΗΝΙΚΑ

**Πληροφορίες σχετικά με την απόρριψη εξοπλισμού****Προσοχή:**

Αυτή η σήμανση ισχύει μόνο για την Ευρωπαϊκή Ένωση.

**[Ευρωπαϊκή Ένωση]**

Αυτή η σήμανση υποδηλώνει ότι ο ηλεκτρικός και ηλεκτρονικός εξοπλισμός δεν πρέπει να απορριφθεί ως κοινό οικιακό απόρριμμα. Αντ' αυτού, το προϊόν πρέπει να παραδοθεί στο ανάλογο σημείο περισυλλογής για την ανακύκλωση των ηλεκτρικών και ηλεκτρονικών μερών και την κατάλληλη επεξεργασία, σύμφωνα με τη νομοθεσία της χώρας σας.

Η σωστή απόρριψη αυτού του προϊόντος βοηθάει στη διαφύλαξη των φυσικών πόρων και στην αποφυγή αρνητικών επιπτώσεων στο περιβάλλον και στην ανθρώπινη υγεία, κάτι που ενδέχεται να προκληθεί από την ακατάλληλη διαχείριση αυτού του προϊόντος ως απόρριμμα. Για περισσότερες πληροφορίες σχετικά με τα σημεία περισυλλογής και ανακύκλωσης αυτού του προϊόντος, επικοινωνήστε με τα γραφεία της τοπικής αυτοδιοίκησης, την υπηρεσία περισυλλογής απορριμμάτων ή το κατάστημα από το οποίο αγοράσατε το προϊόν.

Ανάλογα με τη νομοθεσία της χώρας σας, ενδέχεται να επιβληθούν κυρώσεις σε περίπτωση λανθασμένης απόρριψης αυτού του προϊόντος.

**(Επιχειρήσεις)**

Αν επιθυμείτε να απορρίψετε αυτό το προϊόν, επισκεφτείτε το διαδικτυακό μας τόπο [www.jvc-europe.com](http://www.jvc-europe.com) για περισσότερες πληροφορίες σχετικά με την επιστροφή του προϊόντος.

**[Άλλες χώρες εκτός Ευρωπαϊκής Ένωσης]**

Αν επιθυμείτε να απορρίψετε αυτό το προϊόν, πρέπει να τηρήσετε την ισχύουσα εθνική νομοθεσία ή όποιους άλλους κανονισμούς για τη χώρα σας για την απόρριψη ηλεκτρικού και ηλεκτρονικού εξοπλισμού.

**DANSK**

**Brugerinformation om bortskaffelse af gammelt udstyr**

**Bemærk:**  
Dette symbol er kun gyldigt i EU.



**[EU]**

Elektriske produkter og elektroniske apparater med dette symbol må ikke afhændes på samme måde som almindeligt husholdningsaffald, når det skal smides ud. I stedet skal produktet indleveres på det relevante indsamlingssted for elektriske apparater og elektronisk udstyr, hvor det vil blive håndteret korrekt og efterfølgende genanvendt og recirkuleret i henhold til de love, der gælder i dit land.

Ved at bortskaffe dette produkt korrekt, medvirker du til at bevare naturens ressourcer samt forhindre eventuelle negative påvirkninger af miljøet og folkesundheden, der ellers kunne forårsages ved forkert affaldshåndtering af dette produkt. Mere information om indsamlingssteder og genanvendelse af dette produkt kan du få ved at kontakte din lokale kommune, dit renovations-selskab eller den forretning, hvor du har købt produktet.

Ukorrekt bortskaffelse af dette affald kan være strafbar ifølge lovgivningen i nogle lande.

**(Professionelle brugere)**

Hvis du ønsker at bortskaffe dette produkt, kan du på vores web-side [www.jvc-europe.com](http://www.jvc-europe.com) få information om tilbagetagning af produktet.

**[Land uden for EU]**

Hvis du ønsker at bortskaffe dette produkt, bedes du gøre det i overensstemmelse med gældende lovgivning eller andre regler i dit land for behandling af gammelt elektrisk og elektronisk udstyr.

**SUOMI**

**Tietoja käyttäjille vanhojen laitteiden hävittämisestä**

**Huomio:**  
Tämä symboli on voimassa vain Euroopan unionissa.



**[Euroopan unioni]**

Tämä symboli tarkoittaa, että sähkö- ja elektroniikkalaitteita ei tule laittaa talousjätteisiin, kun ne poistetaan käytöstä. Sen sijaan tuotteet tulee toimittaa asianmukaiseen sähkö- ja elektroniikkalaitteiden kierrätyspisteeseen, jossa ne käsitellään uusiokäyttöä ja kierrätystä varten paikallisen lainsäädännön mukaan.

Kun hävität tuotteen asianmukaisella tavalla, autat säästämään luonnonvaroja ja estämään mahdollisia ympäristö- ja terveyshaittoja, joita voisi aiheutua tämän tuotteen vääränlaisesta hävittämisestä. Lisätietoja keräyspisteistä ja tämän tuotteen kierrätyksestä saat paikakkuntasi viranomaisilta, kotitalousjätteiden keräyksestä huolehtivasta yrityksestä tai liikkeestä, josta ostit tuotteen.

Tuotteen vääränlaisesta hävittämisestä voi seurata paikallisen lainsäädännön mukaisia rangaistuksia.

**(Yrityskäyttäjät)**

Jos haluat hävittää tämän tuotteen, web-sivustoltamme osoitteessa [www.jvc-europe.com](http://www.jvc-europe.com) löydät tietoja käytetyn tuotteen palautuksesta.

**[Muut maat Euroopan unionin ulkopuolella]**

Jos haluat hävittää tämän tuotteen, tee se kansallisen lainsäädännön tai muiden maassasi voimassa olevien määräysten mukaan, jotka koskevat vanhojen sähkö- ja elektroniikkalaitteiden käsittelyä.

**SVENSKA**

**Information till användare gällande kassering av gammal utrustning**

**Tänk på:**  
Att denna symbol endast gäller inom den Europeiska gemenskapen.



**[Europeiska gemenskapen]**

Denna symbol anger att elektrisk och elektronisk utrustning inte ska kasseras som vanligt hushållsavfall, när de inte ska användas mer. Istället ska produkten lämnas in på lämplig återvinningsstation för elektrisk eller elektronisk utrustning, så att den kan tas om hand och återvinnas i enlighet med ert lands lagstiftning.

Genom att avyttra denna produkt på rätt sätt, bidrar du till att bevara naturen och förhindrar potentiellt negativa effekter på miljön och den mänskliga hälsan, som annars kan bli resultatet vid felaktig hantering av denna produkt. Kontakta ditt kommunkontor, det företag som hanterar dina hushållssopor eller butiken där du köpt produkten, för mer information om återvinningscentraler. Det kan hända att du bötfälls i enlighet med ert lands lagstiftning om detta avfall kasseras på fel sätt.

**(Företagsanvändare)**

Om ni vill kassera denna produkt, besök vår webbsida [www.jvc-europe.com](http://www.jvc-europe.com) för att få information om returering av produkten.

**[Övriga länder utanför den Europeiska gemenskapen]**

Om du vill kassera denna produkt, ska detta göras i enlighet med gällande lagstiftning i landet, eller enligt andra bestämmelser i ditt land, för behandling av gammal elektrisk eller elektronisk utrustning.

**NORSK**

**Informasjon til brukerne om kassering av gammelt utstyr**

**OBS!**  
Dette symbolet er kun gyldig i den Europeiske Union og i EFTA-landene Norge, Island og



**[Europeiske Union]**

Dette symbolet betyr at det elektriske eller elektroniske utstyret ikke skal kasseres som vanlig husholdningsavfall når det har nådd slutten av sin levetid. I stedet skal produktet leveres til en passende mottaksstasjon for kasserte elektriske og elektroniske produkter, slik at disse kan behandles, gjenvinnes og resirkuleres i samsvar med nasjonal lovgivning.

Hvis du kasserer dette produktet på riktig måte, bidrar du til å bevare naturlige ressurser og til å motvirke de negative virkningene på miljøet og den menneskelige helse som kan oppstå hvis produktet kasseres på feil måte. Hvis du vil ha mer informasjon om mottaksstasjoner og gjennvinning av dette produktet, kan du ta kontakt med kommunen din, renovasjonsselskapet ditt eller den forhandleren du kjøpte produktet av.

Feilaktig kassering av dette utstyret kan kanskje bøtelegges, avhengig av nasjonale lover og regler.

**(Bedriftsbrukere)**

Hvis du ønsker å kassere dette produktet, kan du gå til hjemmesiden vår på [www.jvc-europe.com](http://www.jvc-europe.com) eller [www.elretur.no](http://www.elretur.no) for å få informasjon om retur av dette produktet.

**[Andre land utenfor EU]**

Hvis du ønsker å kassere dette produktet, må du gjøre det i samsvar med gjeldende nasjonal lovgivning eller andre regler som gjelder i landet ditt når det gjelder behandling av gammelt elektrisk og elektronisk utstyr.

**Информация для пользователей,  
выбрасывающих старое оборудование****Внимание:**

Действие этого  
символа  
распространяется  
только на Европейский

**[Европейский Союз]**

Это символ указывает, что после окончания срока службы соответствующего электрического или электронного оборудования, нельзя выбрасывать его вместе с обычным бытовым мусором. Вместо этого, оно подлежит сдаче на утилизацию в соответствующий пункт приема электрического и электронного оборудования для последующей переработки и утилизации в соответствии с национальным законодательством.

Обеспечивая правильную утилизацию данного продукта, Вы помогаете сберечь природные ресурсы и предотвращаете ущерб для окружающей среды и здоровья людей, который возможен в случае ненадлежащего обращения. Более подробную информацию о пунктах приема и утилизации данного продукта можно получить в местных муниципальных органах, на предприятии по вывозу бытового мусора или по месту приобретения продукта. Нарушение правил утилизации данного типа отходов в соответствии с национальным законодательством является административным правонарушением.

**(Организации-пользователи)**

Прежде чем выбрасывать данный продукт, ознакомьтесь с информацией о приемке отработавших продуктов, приведенной на веб-узле [www.jvc-europe.com](http://www.jvc-europe.com).

**[Страны, не входящие в Европейский Союз]**

Если Вы собираетесь выбросить данный продукт, руководствуйтесь национальным законодательством или другими правилами, действующими в Вашей стране по отношению к переработке старого электрического и электронного оборудования.

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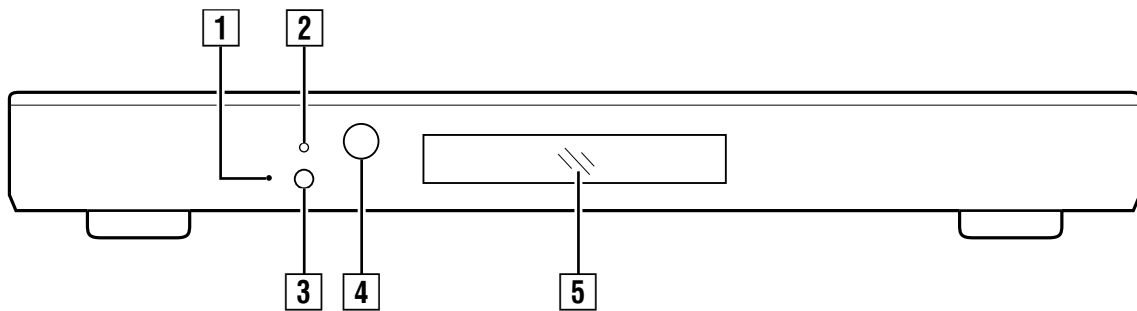
# Accessories/Controls and Features

## Accessories

The following accessories are packed together with this unit. Please confirm all items.  
If any item is missing, please contact your dealer.

Instructions .....	x1
Guarantee .....	x1
<b>Power Cord</b>	
(LD-HD2KBU).....	x1
(LD-HD2KBE).....	x1
	(for European continental countries)
(LD-HD2KBE).....	x1
	(for United Kingdom)
DVI Cable .....	x1
Remote Control .....	x1
AAA size Batteries (for operation confirmation).....	x2
Bracket.....	x2
Bracket mounting screw .....	x6

## FRONT



### 1 Reset Switch

If this unit does not function properly, press the “reset switch” inside the hole lightly using a non-pointed, stiff thin rod.

- It will not erase profiles and system settings stored in this unit.
- Reset is also possible by pulling out the power cord of this unit from the outlet.

### 2 Indicator

Green light : Power is turned on (☞ Page 18)

Red light : Standby mode (☞ Page 19)

### 3 Power/Standby

Press to turn the unit On when it is in the standby mode. Press again to switch to the standby mode. (☞ Page 18)

### 4 Remote Sensor

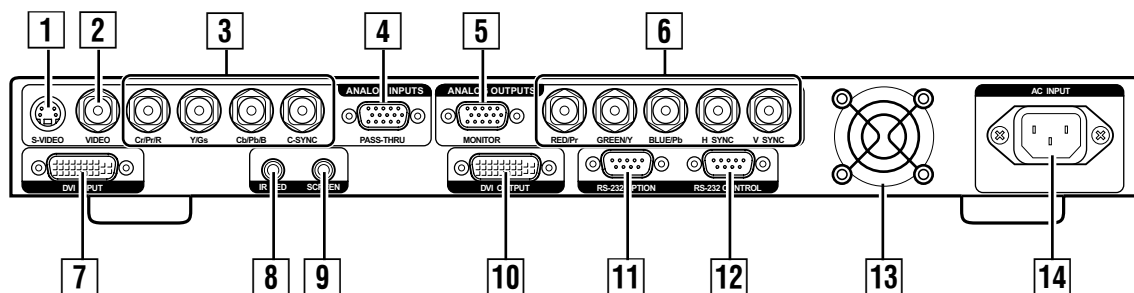
When operating with the remote control, aim it towards the sensor.

### 5 LCD

Provides information on control and warnings on the internal temperature of the processor. (☞ Pages 21, 29)

- The setup menu and warning messages cannot be displayed on-screen. They will be displayed in the LCD.
- See page 29 for warning messages on the internal temperature.

**REAR**



**1 [S-VIDEO] Input Terminal (4-pin mini DIN)**

For input of S-video (Y/C) output signals of sources such as video decks.

**2 [VIDEO] Input Terminal (BNC)**

For input of composite video output signals of sources such as video decks.

**3 [Cr/Pr/R, Y/Gs, Cb/Pb/B, C-SYNC] Input Terminal (Component/RGB input terminal BNC)**

For input of 480i/480p, 576i/576p or 720p/1080i, 50 Hz/60 Hz signals.

- For output of the above signals upon converting to the scan rate specified in the Setup menu.

**4 [PASS-THRU] Input Terminal (Pass-through input terminal, D-sub 15 pin)**

High scan rates for sources such as video signals of HDTV or computers are passed through to the analog outputs terminal. This processor is unable to project signal input from this terminal using the projector.

- Input signals sent to this terminal are not converted or transcoded (from YPrPb to RGBHV).
- Output to the [MONITOR] terminal is possible.
- Usually, this terminal is not used.

**5 [MONITOR] Output Terminal (Monitor output terminal, D-sub 15 pin)**

For use with computer monitors or to a second display device.

- Usually, this terminal is not used.
- Set “SET: ACTIVE OUTPUT” of the Setup menu to “ANALOG RGB+DVI” or “ANALOG RGB”. (Page 22)
- When HDCP signal input is sent to the DVI input terminal, video signals will not be output from the analog terminal. In this case, an “ENCRYPTED SOURCE ANALOG OUT DISABLE” message will appear on the LCD.
- This cannot be used simultaneously with the DVI output terminal.
- Use a D-sub cable within 3 m to prevent attenuated and ringing signals. Also, make use of a 75Ω D15-BNC conversion cable.

**6 [RED/Pr, GREEN/Y, BLUE/Pb, H/V SYNC] Output Terminal (BNC)**

For connection to a display device with an input terminal for RGBHV or YPrPb signals.

- Usually, this terminal is not used.
- If computer signals are to be used, separate H & V sync cables must be connected to the display.
- Set “SET: ACTIVE OUTPUT” of the Setup menu to a value other than “DVI”. (Page 22)

**7 [DVI INPUT] Terminal**

Signals that can be input are 480i/480p, 576i/576p and 720p/1080i, 50 Hz/60 Hz signals. For passing through when signals with scan rates as high as though output from computers have been input. This unit monitors the DVI input and output statuses at all times and displays the corresponding information on the LCD.

**“DVI”**

Upon input of compatible signals

**“NO INPUT”**

When there is no input signal

**“VERIFYING OUT-LINK”**

When there is an interruption in the DVI connection with the projector

**“DVI PASS-THROUGH”**

When signals with scan rates as high as though output from computers are detected and then output without conversion

**“RATE NOT SUPPORTED”**

When signals not supported by this unit are detected while analog RGB or YPrPb output is selected

- It may take a while to display the screen upon input of a HDCP signal.
- In the Setup menu, set the DVI input level and type of sync signal correctly. (☞ Page 23)

**8 [IR LED] Terminal**

Cannot be used with this processor.

**9 [SCREEN] Terminal**

For controlling the SCREEN TRIGGER-compatible elevating screen. Set “SET: SCREEN TRIGGER” in the Setup menu to “ON”, or set using the RS-232C command. Output DC +12 V/100 mA when the power of this unit is turned On.

- Please read the “Precautions for using the screen terminal” on Page 3 before use.

**10 [DVI OUTPUT] Terminal**

This is the DVI output terminal.

Use the DVI cable supplied with this unit to connect with the projector.

- It may take a while to project the images upon input of a HDCP signal to this unit.
- Set “SET: ACTIVE OUTPUT” of the Setup menu to “ANALOG RGB+DVI” or “DVI”. (☞ Page 22)

**11 [RS-232 OPTION] Terminal (D-sub 9 Pin)**

Cannot be used with this processor.

**12 [RS-232 CONTROL] Terminal (D-sub 9 Pin)**

This is compliant with the RS-232C interface specifications. This unit can be controlled by a computer connected externally. For details, please consult your authorized dealer.

- Set the “SET: RS232 ECHO” and “SET: BAUD RATE” items in the Setup menu. (☞ Page 24)

**13 Exhaust Fan**

Expels warm air to keep the system cool.

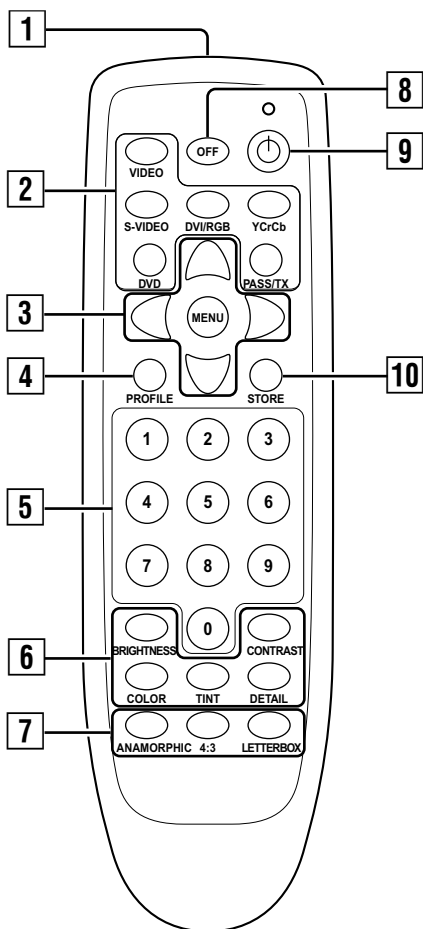
Do not block the exhaust fan. This may cause the unit to malfunction.

**14 AC Power Input Terminal**

This is the AC power input terminal. Connect the supplied cord to this terminal.

**Remote Control**

Some buttons may not function depending on your input source or unit's settings. A "KEY NOT VALID" message will appear on the LCD if a button that does not function is pressed.



**1 Remote Control's Signal Transmitter**

**2 Buttons for Input Selection**

Sets signals to input to this unit.

**[VIDEO] Button**

Press this button to select the composite video signal that has been input to the [VIDEO] input terminal at the rear of this unit.

**[S-VIDEO] Button**

Press this button to select the S-video signal that has been input to the [S-VIDEO] input terminal at the rear of this unit.

**[DVI/RGB] Button**

Press this button to select the digital DVI or analog RGB signal that has been input to the [DVI INPUT] or [R/G/B/C-SYNC] input terminal at the rear of this unit.

- Input switches between digital DVI and RGB each time the [DVI/RGB] button is pressed. It is also possible to specify the DVI and RGB inputs directly.

**DVI Input**

Press the [DVI/RGB] button, followed by the [0] button

**RGB Input**

Press the [DVI/RGB] button, followed by the [1] button

**[Y/Cr/Cb] Button**

Press this button to select the component video signal that has been input to the [Y, Cr/Pr, Cb/Pb] input terminal at the rear of this unit.

**[DVD] Button**

Cannot be used with this processor.

**[PASS/TX] Button**

Press this to output (pass through) signals that have been input to the input terminal of this unit in the same format.

DVI input signals are output to the DVI output terminal and analog input signals to the analog output terminal without being transcoded (from YPrPb to RGBHV).

DIGITAL(DVI) → DIGITAL(DVI)

ANALOG RGBHV(D15) → RGBHV(BNC&D15)

YPrPb (BNC&D15) → YPrPb (BNC&D15)

**3 Menu Operation [▲ / ▼ / ◀ / ▶ / MENU] Buttons**

Use these to operate the Setup menu and OSD menu. (☞ Pages 21, 25)

**4 [PROFILE] Button**

Press this button to invoke the profile that has been stored in this unit. (☞ Pages 19, 26)

**5 Number Buttons**

Use these to adjust the OSD menu items, such as brightness and contrast (items that are adjusted using numeric values). (☞ Page 27)

**6 Picture Adjustment Buttons**

Use these to adjust Brightness, Contrast, Color, Tint and Detail. Press the corresponding picture adjustment button, followed by the number buttons to enter a setting value.

- These items can also be adjusted in the OSD menu. (☞ Page 27)

**[BRIGHTNESS] Button**

Adjusts the brightness of the picture image.  
(Factory default value: 50)

**[CONTRAST] Button**

Adjusts the contrast of the picture image.  
(Factory default value: 50)

**[COLOR] Button**

Adjusts the color density of the picture image.  
(Factory default value: 50)

**[TINT] Button**

Adjusts the hue of the picture image.  
(Factory default value: 50)

- Adjust this when the colors in the video image do not seem balanced under the current tint settings.
- This item cannot be adjusted for component (YPrPb) signals.

**[DETAIL] Button**

Adjusts the image quality.  
(Factory default value: 4)

- Select your preferred setting values according to the image to be viewed.

**NOTE:**

The buttons below will not function if "SET: 1080i TO 1080p" is set to "HIGH BANDWIDTH MODE". In this case, a "HIGH BANDWIDTH MODE KEY NOT VALID" message will appear on the LCD.

- [DETAIL] Button
- [ANAMORPHIC] Button
- [4:3] Button
- [LETTERBOX] Button

**7 Picture Size Adjustment Buttons**

Use these to set the aspect ratio of video signal output from this unit.

- Set the screen shape (aspect ratio) in the Setup menu. (☞ Page 22)

**[ANAMORPHIC] Button**

Select this during output of 16:9 video signals.

- When input images are cinema images (aspect ratio of 2.35:1), these will be output as 16:9 video signals with a black band at the upper and lower ends of the image.

**[4:3] Button**

Select this during output of 4:3 video signals.

**CAUTION:**

Do not leave those other than 16:9 images (4:3, etc.) with a 16:9 screen on for long periods of time. This can cause permanent image burn-in. Image burn-in is not covered by warranty.

**[LETTERBOX] Button**

When using a 4:3 source on a 16:9 screen, black bars will appear on the left and right of the image. Select this to clear the black bars and for the image to fill the screen. The image will fill the screen but part of the image at the top and bottom will not be displayed.

**8 [OFF] Button**

Press this to switch to the standby mode when the power of this unit is turned On. (☞ Page 19)

**9 Power On Button**

Press to turn the unit On when it is in the standby mode. (☞ Page 18)

**10 [STORE] Button**

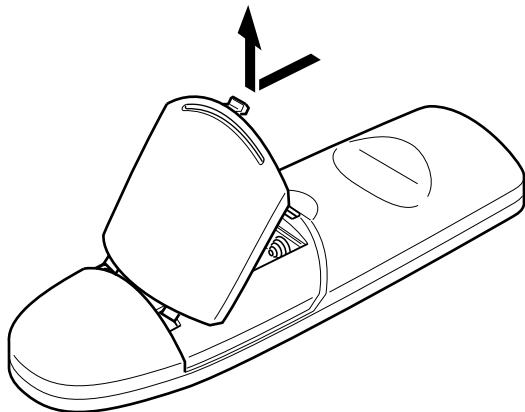
Press this button to select an output scan rate ("SET: NTSC SCANRATE" or "SET: PAL SCANRATE" of Setup menu), store the profile data upon modifying, or invoke a profile number. (☞ Page 26).

### Loading Batteries into the Remote Control

Load batteries into the remote control. If the remote control starts to function erratically, replace the batteries with new ones.

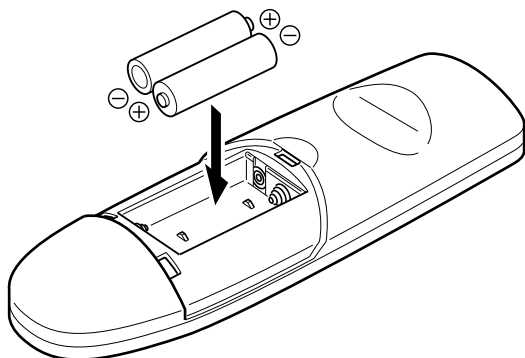
#### 1 Open the back cover

To open, push the top of the back cover towards you.



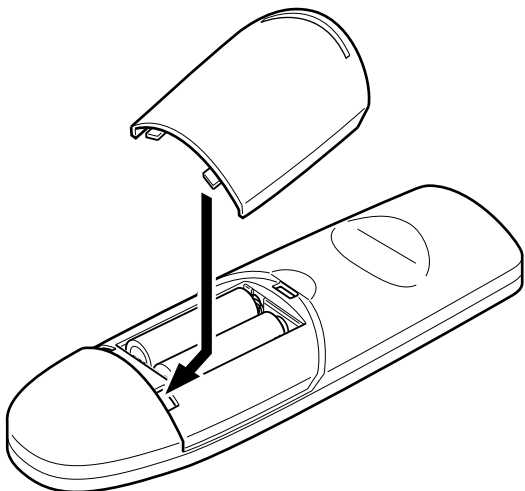
#### 2 Load the batteries

Insert the 2 (AAA) batteries supplied according to the  $\oplus$ ,  $\ominus$  marks. To prevent short circuit, be sure to insert the  $\ominus$  (minus) end of the battery first.



#### 3 Close the back cover

To close, fit the tab of the back cover into the groove of the remote control.



#### Precautions for Using Batteries

**If batteries are incorrectly used, they may crack or leak. This could cause fire, burn, malfunction, and staining or damaging of the surroundings.**

**Beware of the following:**

- Do not mix new and old batteries.
- Do not mix different type of batteries as they are different in characteristics.
- Insert batteries according to the  $\oplus$   $\ominus$  marks on the battery case.
- Be sure to insert the minus  $\ominus$  end in first to prevent short circuit.
- Do not put batteries into fire or recharge them.
- Use only designated batteries.
- Remove the batteries if the remote control is not to be used for a prolonged period.
- Use manganese batteries wherever possible. Do not use rechargeable, alkaline batteries.
- Read the cautions displayed on the batteries.

#### Battery Life

Batteries last for 6 months to 1 year under normal use. However, batteries provided are for confirming operation and may not last that long.

#### Battery Leakage

When the batteries are totally exhausted and can no longer be used, replace them immediately.

Leaving the batteries in the battery compartment causes leakage, which may in turn lead to malfunction.

## Precautions for Installation

Please read the following carefully when installing this unit.

### Installation Environment

**This unit is a precision device. Do not install it at the following places. Doing so may cause fire or malfunction of the unit.**

- Where there is water, humidity or dust
- Where the unit may be subjected to oily or cigarette smoke
- On a soft surface such as carpet or cushion
- Where the unit may be subjected to high temperature due to direct sunlight
- When temperature is high or low

Check that it is well ventilated before installing on a rack. When devices that emit heat, such as power amplifiers, are to be installed on a rack, mount a fan on the rack as well.

Allowable operation temperature range: +5 °C to +35 °C

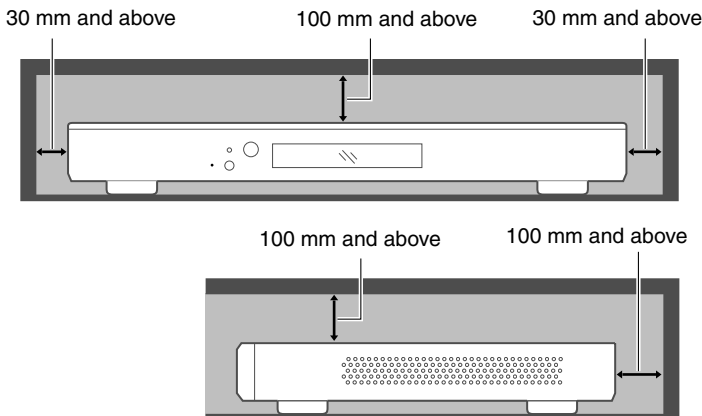
Allowable relative humidity range: 20 % to 80 % (no condensation)

Allowable storage temperature range: -10 °C to +60 °C

- Any room in which there is cigarette smoke or grease

Even where smoke and grease levels are minimal, prolonged exposure will affect this unit and may cause malfunctioning.

### Minimum Space Required



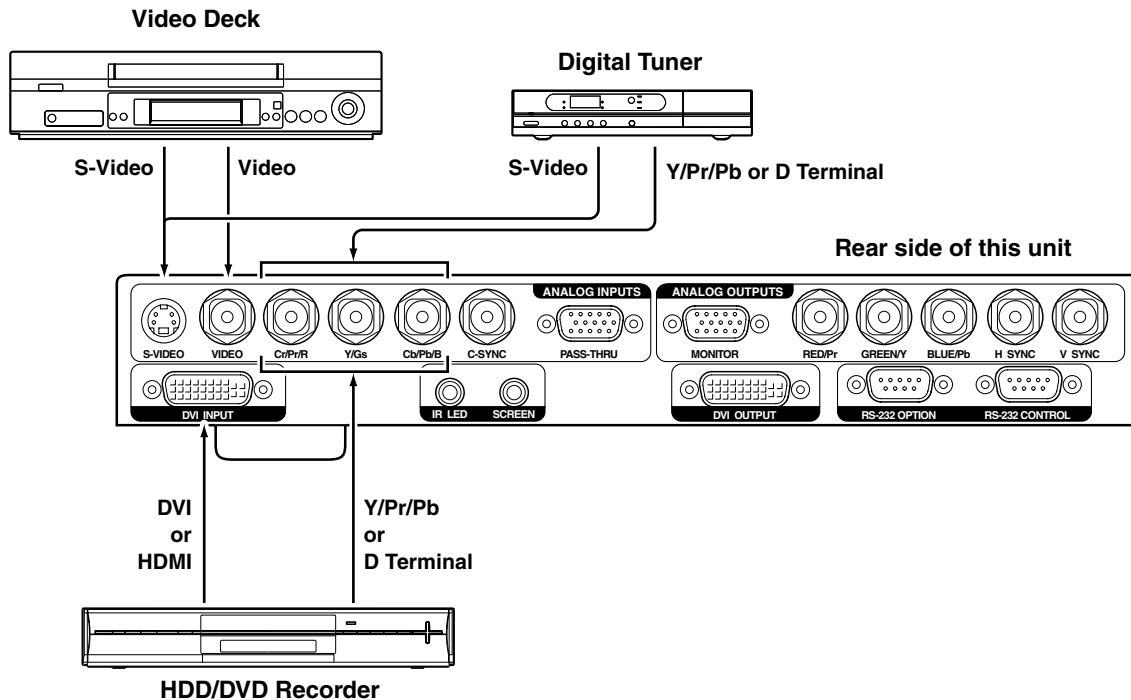
- Do not place this unit in an enclosed area or block the air inlets and exhaust vents. Allow sufficient space around this unit for emission of heat.
- Check that it is well ventilated before installing on a rack. When devices that emit heat, such as power amplifiers, are to be installed on a rack, mount a fan on the rack as well.

## Connecting to Devices

Before connection, be sure to turn off both this unit and the device to be connected.

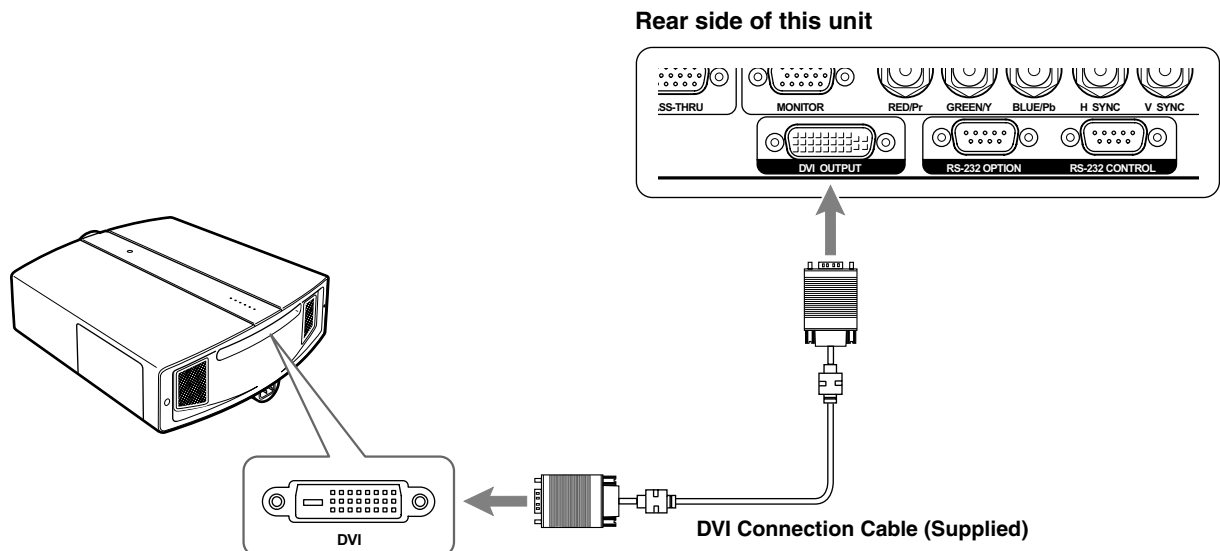
### Connecting to Input Devices

- Read the manual that is supplied with the input device to be connected thoroughly.
- See below for an illustration of the devices used and method of connection.



### Connecting to a projector

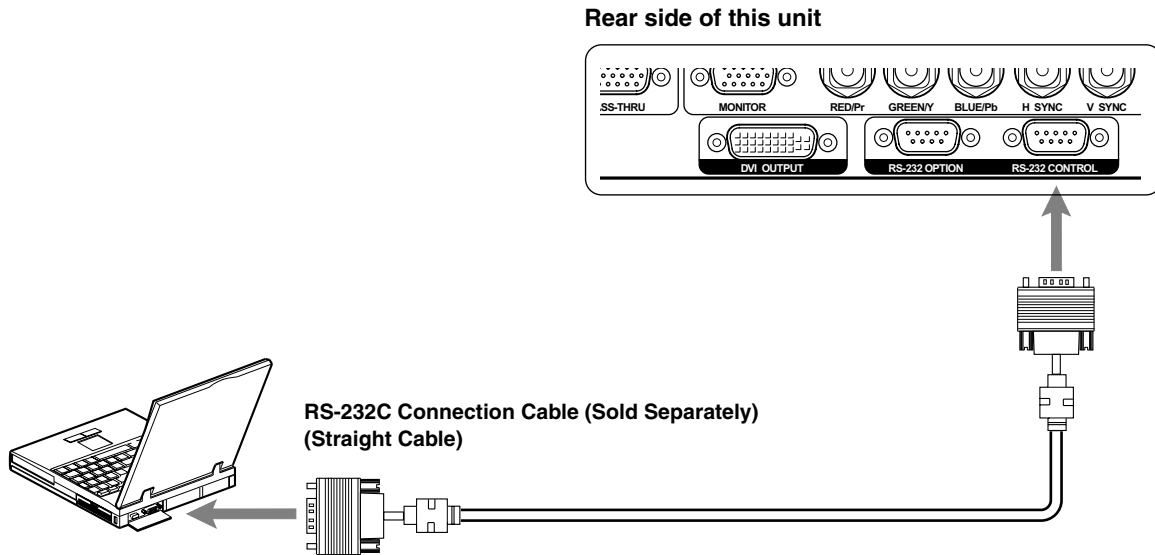
- Read the manual that is supplied with the projector to be connected thoroughly.
- Use the DVI cable supplied with this unit. Use of a split system or optical fiber cable is recommended when using a cable that is longer than the length of the supplied DVI cable.
- Depending on the capability of the DVI cable used, signals may attenuate or video images may become unstable.





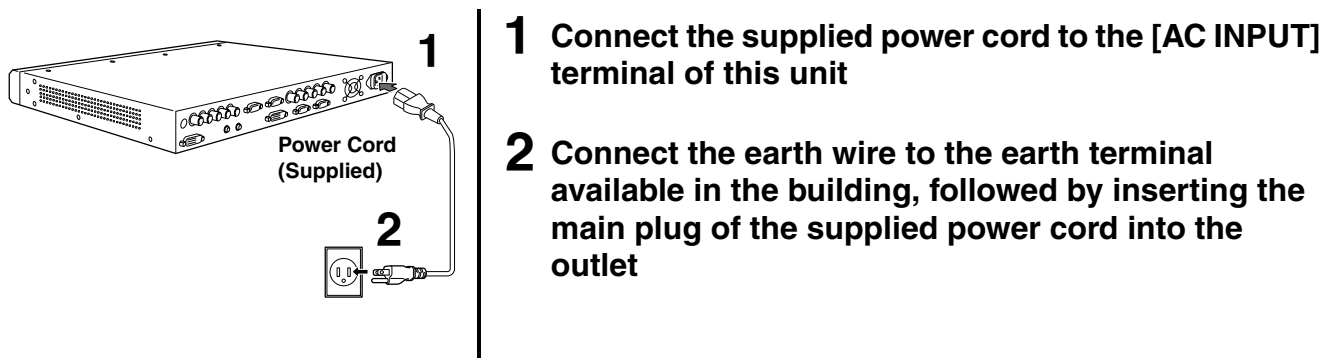
## Control from external device

It is possible to control this unit by connecting a computer to the [RS-232 CONTROL] terminal at the rear of this unit. Please request a connection cable from us if needed. For details, please consult your authorized dealer.



## Connecting the Power Cord (Supplied)

Before plugging in the power cord, ensure that all devices have been connected.

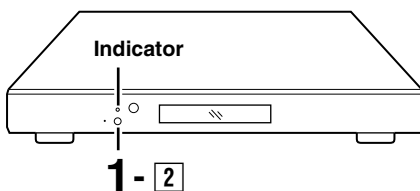
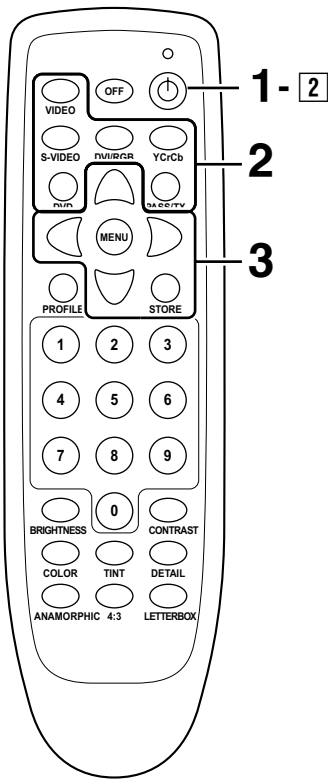


## Cautions Against Fire and Electric Shock

- When not using devices, remove the power plug from the wall outlet.
- Do not use power cords for connection other than those supplied.
- Do not use a power voltage different from that which is indicated.
- Do not cut, tear or modify the power cords. Also, do not place a heavy object on, heat or stretch the power cords as this may cause damage to the cords.
- Do not insert or pull out plugs with a wet hand.

# Basic Operation Procedures

Simply perform the following steps to start viewing video images. If other settings are required, please do so by referring to “Adjustments and Settings Using Menu”.



## Preparation:

- Turn on the power of the input device and projector.

## 1 Turning on the power

### 1 Insert the power plug to the power outlet

- This unit starts to initialize upon inserting the power plug to the outlet.
- After initialization is complete, the unit switches to the standby mode (indicator lights up in red).

### 2 Press the Power On button on the remote control (or the Power/Standby button on the processor)

- The indicator on the processor lights up in green.

## 2 Press an input selection button on the remote control to select the input source

- It may take a while to display the screen upon input of a HDCP signal.
- A “RATE NOT SUPPORTED” message will appear on the LCD if a signal that is not compatible with this unit has been input.

## 3 Setting the output resolution

### 1 Press the [MENU] button on the remote control for 7 seconds to enter the Setup menu

### 2 Press the [▲/▼] buttons to select “SET: NTSC SCANRATE” or “SET: PAL SCANRATE”

- Select “SET: NTSC SCANRATE” when the input signal is an NTSC signal.
- Select “SET: PAL SCANRATE” when the input signal is a PAL signal.

### 3 Press the [▲/▼] buttons to select “1920 × 1080” or “1920 × 1080/50Hz”

- Select “1920 × 1080” when the input signal is an NTSC signal.
- Select “1920 × 1080/50Hz” when the input signal is a PAL signal.

### 4 Press the [STORE] button twice to save the output resolution

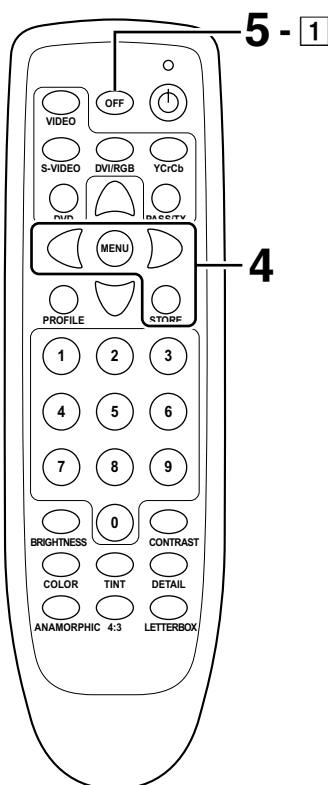
- An image will appear on the screen.

### 5 Press the [MENU] button twice to end

## NOTE:

When using a 4:3 screen, perform the following setting as well after setting the output resolution.

1. Set “SET: SCREEN SHAPE” of the Setup menu to “4:3” (☞ Page 22)
2. Press the [4:3] button on the remote control
  - The output video signals of this unit are now set to an aspect ratio of 4:3.
  - This can also be set in the OSD menu. (☞ Page 26)



## 4 Store the settings in steps 2 and 3 in a profile

- 1** Press the [STORE] button
  - The “Store 1 2 3 4” menu appears on the screen.
- 2** Press the [◀▶] buttons to select the number to save settings to
- 3** Press the [STORE] button to save the settings
  - The “COMPLETE” message appears on the LCD.

### NOTE:

To store other input images as profiles, repeat steps 2 and 4.

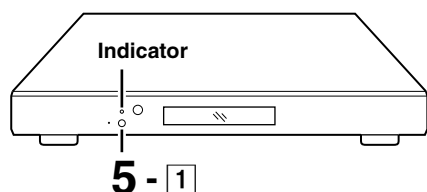
## 5 Turning off the power

- 1** Press the [OFF] button on the remote control (or the Power/Standby button on the processor)
  - The indicator on the processor lights up in red.
- 2** Pull out the power plug from the power outlet

### NOTE:

To view these images subsequently, simply specify the profile number after turning on the power.

1. Turn on the power of all devices
2. Press the [PROFILE] button
  - The “Recall 1 2 3 4” menu appears on the screen
3. Press the [◀▶] buttons to select the profile number to view
4. Press the [STORE] button to confirm
  - An image will appear on the screen.
  - When settings are altered after invoking a profile, these will automatically overwrite the old settings.
5. Press the [MENU] button to close the OSD menu



# Adjustments and Settings Using Menus

The menus of this unit form a structure as shown below. Characters are displayed in English only. The Setup menu is displayed on the LCD. The OSD menu will be displayed on the screen through the projector that is connected to this unit.

## Items for Setting in the Setup Menu

### SET: NTSC SCANRATE

(Output scan rate setting for NTSC signals)

### SET: PAL SCANRATE

(Output scan rate setting for PAL signals)

### SET: ACTIVE OUTPUT

(Output signal setting)

### SET: SCREEN SHAPE

(Screen shape setting for projector)

### SET: ANALOG BLACK LVL

(Level setting for black analog signals)

### SET: COMP SYNC ON H

(Composite sync signal setting)

- This setting is not required.

### SET: INPUT HD H-ADJUST

(Horizontal position of HD signals)

### SET: DVI INPUT LEVEL

(Level setting for DVI digital input signals)

### SET: VIDEO INPUT

(Input setting for composite video signals)

### SET: S-VIDEO INPUT

(Input setting for S-video signals)

### SET: RGB INPUT

(Input setting for RGB signals)

### SET: YCrCb INPUT

(Input setting for component video signals)

### SET: DVI INPUT

(Input setting for DVI digital signals)

### SET: PASSTHRU INPUT

(Pass-through input setting)

### SET: RGB INPUT SYNC

(RGB sync signal setting)

### SET: DVI INPUT H SYNC

(Horizontal sync signal setting during DVI input)

### SET: OSD

(On-screen display setting)

### SET: OSD TIMER

(OSD timer setting)

### SET: LCD TIMER

(LCD timer setting)

### SET: RS232 ECHO

(RS-232C echo setting)

### SET: BAUD RATE

(RS-232C baud rate setting)

### SET: SCREEN TRIGGER

(Screen trigger setting)

### SET: 1080i TO 1080p

(Output rate setting for 1080i signals)

### SET: NTSC PROFILE

(Profile setting for NTSC signals)

### SET: PAL PROFILE

(Profile setting for PAL signals)

### SET: RESTORE FACTORY

(Default setting)

## Items for Setting in the OSD Menu

### Input-

Formats-Input  
Formats-Aspect  
Profile-Recall  
Profile-Store

### Picture-

Brightness  
Contrast  
Color  
Tint  
Detail  
Adv Color

### Display-

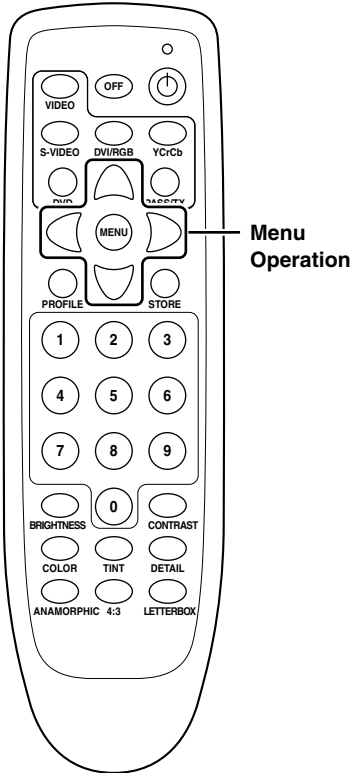
Position-Horizontal (does not function on this processor)  
Position-Vertical (does not function on this processor)  
Border Lvl  
Left (Border)  
Right (Border)  
Bottom (Border)  
Top (Border)

### Patterns-

Test Pattern  
Select (Pattern)

## Operating the Setup Menu

Operate using the buttons on the remote control.



### 1 Press the [MENU] button for about 7 seconds

- The Setup menu appears on the LCD. On-screen display of the Setup menu is not possible.

SET: NTSC SCANRATE  
1280 × 720

### 2 Press the [▲/▼] buttons to select an item for setting

SET: ACTIVE OUTPUT  
ANALOG RGB + DVI

Example: To change the "ACTIVE OUTPUT TYPE" setting value

### 3 Press the [◀▶] buttons to change the setting value

SET: ACTIVE OUTPUT  
DVI

Example: To change "ANALOG RGB+DVI" to "DVI"

#### NOTE:

To set the scan rate ("SET: NTSC SCANRATE" or "SET: PAL SCANRATE"), select a value, followed by pressing the [STORE] button twice.

### 4 Repeat steps 2, 3 to set other items

### 5 Press the [MENU] button twice to exit the Setup menu

### Setup Menu Configuration

#### SET: NTSC SCANRATE

##### (Output scan rate setting for NTSC signals)

Sets the output scan rate of NTSC signals. Set to "1920 × 1080".

Setting Values:  
1280 × 720, 1024 × 768, 1280 × 768, 1366 × 768,  
1440 × 960, 1280 × 1024, DILA, DILA3,  
1920 × 1080, 1400 × 788, 1920 × 540, 800 × 600  
Default Value: 1920 × 1080

- Press the [STORE] button twice to confirm the setting and store it as a profile. Please refer to 19 and 26 for details on profile setting.

#### SET: PAL SCANRATE

##### (Output scan rate setting for PAL signals)

Sets the output scan rate of PAL signals. Set to "1920 × 1080/50Hz".

Setting Values:  
1280 × 720/50Hz, 1024 × 768/75Hz, 1024 × 768/  
100Hz, 1920 × 1080/50Hz, 720 × 576/50Hz, 720 ×  
576/100Hz  
Default Value: 1920 × 1080/50Hz

- Press the [STORE] button twice to confirm the setting and store it as a profile. Please refer to 19 and 26 for details on profile setting.

#### SET: ACTIVE OUTPUT

##### (Output signal setting)

Sets whether to output analog signals (BNC, D-sub) or digital signals (DVI) to the output terminal of this unit.

Setting Values:  
ANALOG RGB+DVI, ANALOG YPrPb, DVI, ANALOG  
RGB  
Default Value: ANALOG RGB+DVI

- Select "ANALOG RGB+DVI" to output both digital and analog signals. However, output of YPrPb signals is not possible.
- Each of the output format can be stored as a separate profile. (☞ Pages 19, 26)
- There will be no output to the analog terminal when HDCP signals are input to the DVI input terminal of this unit. In this case, an "ENCRYPTED SOURCE ANALOG OUT DISABLE" message will appear on the LCD.

#### SET: SCREEN SHAPE

##### (Screen shape setting for projector)

Sets the screen shape of the projector that is connected to this unit.

Setting Values: WIDESCREEN, WIDE 4:3, 4:3  
Default Value: AUTO or WIDESCREEN

##### ■ WIDESCREEN

Choose this when projecting 16:9 or 2.35:1 images from the projector onto a wide screen.

##### ■ WIDE 4:3

Choose this when projecting a 4:3 image from the projector onto a wide screen. (Not available on units scanning at rates below 720p.)

##### ■ 4:3

Select this when using a 4:3 screen.

##### ■ AUTO

Upon input of a 1080i signal, the setting will be fixed to "AUTO".

#### SET: ANALOG BLACK LVL

##### (Level setting for black analog signals)

Sets the black signal level of the YPrPb component video signal.

Setting Values: 0 IRE, 7.5 IRE  
Default Value: 7.5 IRE

#### SET: COMP SYNC ON H

##### (Composite sync signal setting)

Sets the horizontal/vertical sync signals when connected via the analog RGB output (4-wire connection). When this is set to "ON", composite sync signals will be output from the [H SYNC] terminal.

Setting Values: OFF, ON  
Default Value: OFF

- This processor is used via a DVI connection to the projector, and therefore this setting is not required.
- Setting is enabled when you select "ANALOG RGB+DVI" or "ANALOG RGB" in the "SET: ACTIVE OUTPUT" setting.

---

**SET: INPUT HD H-ADJUST**  
**(Horizontal position of HD signals)**

Aligns the horizontal position of normal video images to high quality images (720p/1080i).

[ Setting Values: 0–50  
Default Value: 25 ]

- Aligns an appropriate image size with the image position on the screen by using test patterns from the DVD. Adjustment is first performed at the “H/V-Position” position of the OSD menu on this unit. This is followed by the actual adjustment using the HD signals.

---

**SET: DVI INPUT LEVEL**  
**(Setting for DVI digital input signals)**

Sets the signal level of DVI input signals.

[ Setting Values: 16-235, 0-255  
Default Value: 16-235 ]

- Sets to match the signal level of your input device.

---

**SET: VIDEO INPUT**  
**(Input setting for composite video signals)**

Sets whether to use the video input terminal or not.

[ Setting Values: ENABLE, DISABLE  
Default Value: ENABLE ]

- When this is set to “DISABLE” (do not use), the “Video” item cannot be selected for “INPUT” in the OSD menu.
- It is not possible to set all terminals to “DISABLE” (do not use). “SET: VIDEO INPUT” will be automatically set to “ENABLE” (use) upon doing so.

---

**SET: S-VIDEO INPUT**  
**(Input setting for S-video signals)**

Sets whether to use the S-video input terminal or not.

[ Setting Values: ENABLE, DISABLE  
Default Value: ENABLE ]

- When this is set to “DISABLE” (do not use), the “S-Video” item cannot be selected for “INPUT” in the OSD menu.

---

**SET: RGB INPUT**  
**(Input setting for RGB signals)**

Sets whether to use the RGB input terminal or not.

[ Setting Values: ENABLE, DISABLE  
Default Value: ENABLE ]

- When this is set to “DISABLE” (do not use), the “RGB” item cannot be selected for “INPUT” in the OSD menu.

---

**SET: YCrCb INPUT**  
**(Input setting for component video signals)**

Sets whether to use the component video input terminal or not.

[ Setting Values: ENABLE, DISABLE  
Default Value: ENABLE ]

- When this is set to “DISABLE” (do not use), the “YCrCb” item cannot be selected for “INPUT” in the OSD menu.

---

**SET: DVI INPUT**  
**(Input setting for DVI digital signals)**

Sets whether to use the DVI input terminal or not.

[ Setting Values: ENABLE, DISABLE  
Default Value: ENABLE ]

- When this is set to “DISABLE” (do not use), the “DVI” item cannot be selected for “INPUT” in the OSD menu.

---

**SET: PASSTHRU INPUT**  
**(Pass-through input setting)**

Sets whether to use pass-through or not.

[ Setting Values: ENABLE, DISABLE  
Default Value: ENABLE ]

---

**SET: RGB INPUT SYNC**  
**(RGB sync signal setting)**

Sets the sync signal during RGB signal input.

[ Setting Values: SYNC ON GREEN, COMPOSITE SYNC  
Default Value: SYNC ON GREEN ]

- This setting is enabled when RGB input is selected.
- Select “COMPOSITE SYNC” for PAL RGB signals.

## Adjustments and Settings Using Menus (continued)

### SET: DVI INPUT H SYNC

#### (Horizontal sync signal setting during DVI input)

Sets when horizontal sync signals do not match.

[ Setting Values: NORMAL, WIDE  
Default Value: NORMAL ]

- This setting is enabled when DVI input is selected.

### SET: OSD

#### (On-screen display setting)

Sets whether to display the OSD menu on the screen.

[ Setting Values: ON, OFF  
Default Value: ON ]

### SET: OSD TIMER

#### (OSD timer setting)

Sets the on-screen display time.

[ Setting Values: 0–255  
Default Value: 30 ]

### SET: LCD TIMER

#### (LCD timer setting)

Sets the backlight of the LCD.

[ Setting Values: ALWAYS ON, 06–255  
Default Value: 30 ]

### SET: RS232 ECHO

#### (RS-232C echo setting)

Set to “ON” when returning a RS-232C command from this unit to an external control device. Please refer to 30 for details on RS-232C codes.

[ Setting Values: ON, OFF  
Default Value: ON ]

### SET: BAUD RATE

#### (RS-232C baud rate setting)

Sets the baud rate of RS-232C.

[ Setting Values: 9600, 19200, 57600  
Default Value: 19200 ]

### SET: SCREEN TRIGGER

#### (Screen trigger setting)

Controls the screen trigger-compatible elevating screen. Set this to “ON” to output DC +12 V from the [SCREEN] terminal when the power of this unit is on. No output when this is set to “OFF”.

[ Setting Values: ON, OFF  
Default Value: ON ]

### SET: 1080i TO 1080p

#### (Output scan rate setting for 1080i signals)

Sets the mode of converting 1080i signals. This is enabled only when the output scan rate is set to 1080i. Select “HIGH BANDWIDTH MODE” to convert to a maximum bandwidth without adjusting the picture image (level, aspect ratio, etc.). Select “ENHANCED MODE” for a full image adjustment and minimum reduction in bandwidth.

[ Setting Values:  
HIGH BANDWIDTH MODE, ENHANCED MODE  
Default Value: HIGH BANDWIDTH MODE ]

- This setting is enabled when the image output signal (“SET: NTSC SCANRATE” or “SET: PAL SCANRATE”) is set to “1920 × 1080” or “1920 × 1080/50Hz”.

### SET: NTSC PROFILE

#### (Profile setting for NTSC signals)

Stores all setting values of the NTSC signal to the selected profile number.

[ Setting Values: STORE PROFILE 1–8  
Default Value: STORE PROFILE 1 ]

### SET: PAL PROFILE

#### (Profile setting for PAL signals)

Stores all setting values of the PAL signal to the selected profile number.

[ Setting Values: STORE PROFILE 1–8  
Default Value: STORE PROFILE 1 ]

### SET: RESTORE FACTORY

#### (Default setting)

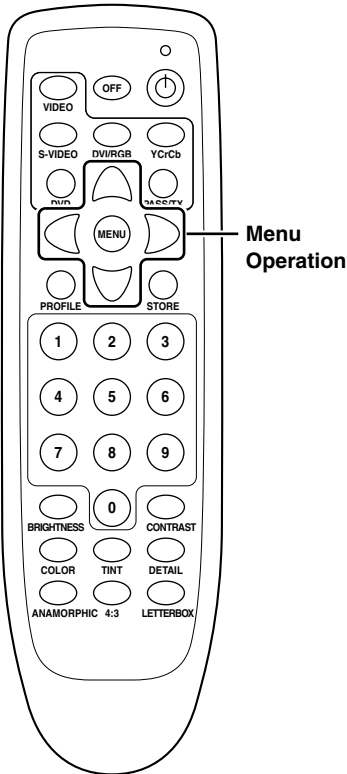
Restores to the factory settings.

- Use this command when this unit is unable to function properly, or after all system checks have been completed.
- Before using this command, unplug the power plug of this unit. Alternatively, press the reset switch at the front of this unit (inside the hole) lightly using a nonpointed, stiff thin rod. This will reset the software without clearing the settings.



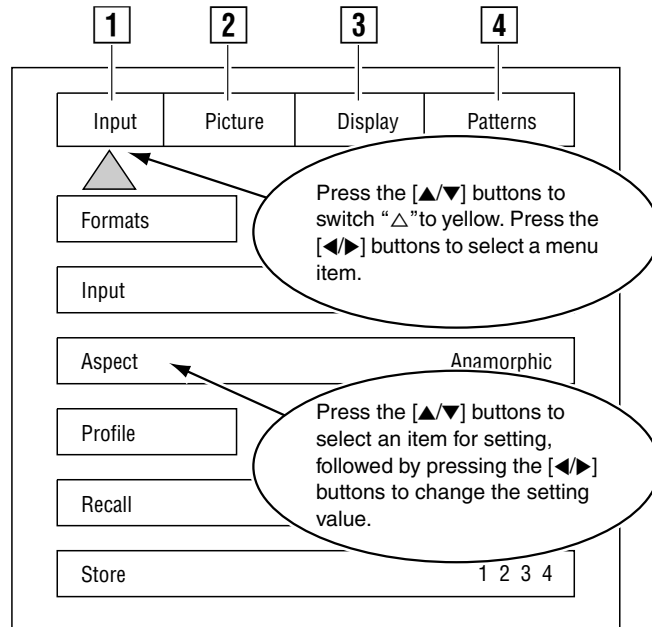
## Operating the OSD Menu

The menus are operated using buttons on the remote control unit. Characters are displayed in English only.



### 1 Press the [MENU] button

- The OSD menu is displayed on the screen. Press again to clear the OSD menu screen.



### 2 Press the [▲/▼] buttons to switch "△" on the upper part of the OSD menu to yellow

### 3 Press the [◀▶] buttons to select a menu item (Input/Picture/Display/Patterns)

- Doing so displays a list of setting items for the selected menu item.

### 4 Press the [▲/▼] buttons to select an item for setting

### 5 Press the [◀▶] buttons to change the setting value

### 6 Press the [▲/▼] buttons to return to the OSD menu screen

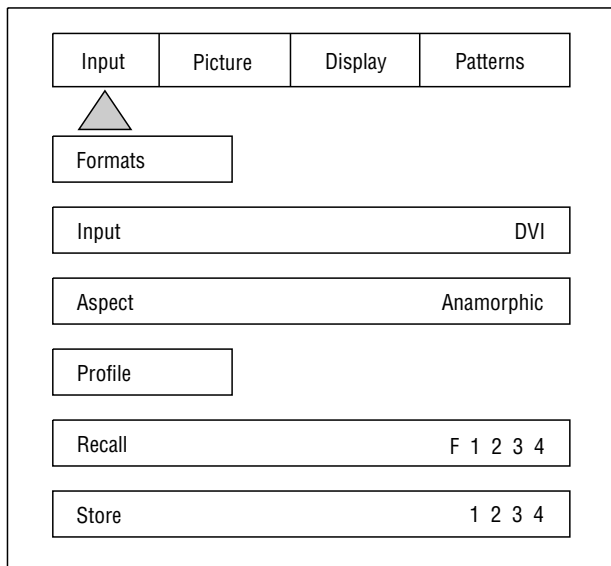
### 7 Repeat steps 2 to 6 to set other items

### 8 Press the [MENU] button to exit the OSD menu

## OSD Menu Configuration

### 1 Input Menu

- “Input” setting of the “Input” menu can also be set using the input selection buttons on the remote control. (Page 12)



#### Formats

##### Input

Sets signals to input to this unit.

[ Setting Values: DVI, Video, S-Video, RGB, YCrCb  
Default Value: DVI ]

##### Aspect

Use these to set the aspect ratio of video signal output from this unit.

[ Setting Values: Anamorphic, Letterbox, 4 × 3  
Default Value: Anamorphic ]

- Sets the screen’s aspect ratio in the Setup menu. When the “Anamorphic” aspect ratio is selected while the screen shape setting is set to “4:3” and “WIDE 4:3”, signals at a scan rate of 480p, 540p and 600p and those that have undergone frame doubling cannot be used.
- When using a 4:3 source on a Wide Angle screen, a black bar will appear on the left and right sides of the image. The sidebars can be changed to gray color by adjusting “Border Lvl” in the “Display” menu. If filling the entire screen is desired, set “Aspect” of the “Input” menu to “Letterbox”. The image will fill the screen but part of the image at the top and bottom will not be displayed (overscanned).
- When watching 2.35:1 aspect ratio movies on a 16:9 (1:77) screen, it is normal to see black bars at the top and bottom of the image.

#### CAUTION:

Do not project images except for those at 16:9 (e.g. 4:3, etc.) on display devices with a screen size of 16:9 for long periods of time. This can cause permanent image burn-in. Image burn-in is not covered by warranty.

#### Profile Button

##### Recall

Invokes the stored profile.

[ Setting Values: F (Factory), 1, 2, 3, 4, 5, 6, 7, 8 ]

##### Store

Stores up to 8 profiles each for NTSC and PAL.

[ Setting Values: 1, 2, 3, 4, 5, 6, 7, 8 ]

##### ■ Storing a profile

1. Press the [MENU] button on the remote control to display the OSD menu
2. Set (Adjust) accordingly
3. Press the [▲/▼] buttons to select “Store”
4. Press the [◀/▶] buttons to select a profile number (1 to 8) to store the settings to
5. Press the [STORE] button to save the profile

##### ■ Invoking a profile

1. Press the [MENU] button on the remote control to display the OSD menu
2. Press the [▲/▼] buttons to select “Recall”
3. Press the [◀/▶] buttons to select a profile number (1 to 8) to invoke
4. Press the [STORE] button to invoke the profile

#### NOTES:

- It is also possible to invoke a profile from the computer via RS-232C.

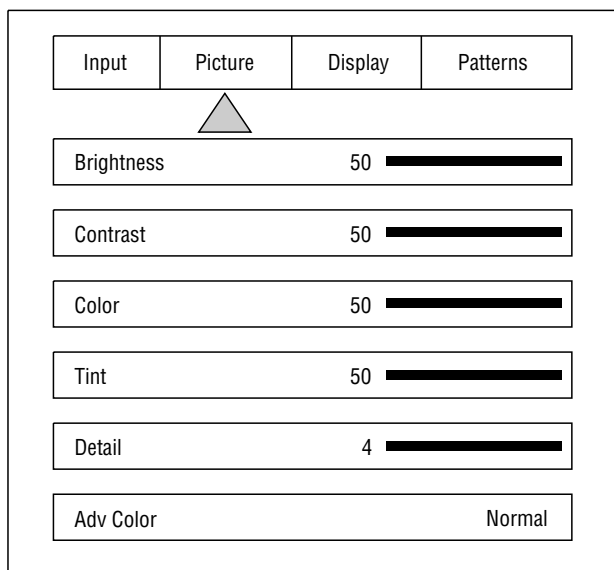
#### NOTE:

The menus below will not function if “SET: 1080i TO 1080p” is set to “HIGH BANDWIDTH MODE”.

- Aspect
- Tint
- Detail
- Adv Color (Advanced Color System)
- Display

## 2 Picture Menu

- “Brightness”, “Contrast”, “Color”, “Tint” and “Detail” can also be adjusted outside the OSD menu. Press the [BRIGHTNESS] button on the remote control, followed by the number buttons to enter a setting value.



### Brightness Button

Adjusts the brightness of the picture image.

[ Setting Values: 0–100  
Default Value: 50 ]

- Adjustment is also possible by pressing the [BRIGHTNESS] button on the remote control. Press the [BRIGHTNESS] button, followed by the number buttons to enter a setting value.

### Contrast

Adjusts the contrast of the picture image.

[ Setting Values: 0–100  
Default Value: 50 ]

### Color

Adjusts the color density of the picture image.

[ Setting Values: 0–100  
Default Value: 50 ]

### Tint

Adjusts the hue of the picture image.

[ Setting Values: 0–100  
Default Value: 50 ]

- Adjust this when the colors in the video image do not seem balanced under the current tint settings.
- This item cannot be adjusted for component (YPrPb) signals.

### Detail

Adjusts the image quality.

[ Setting Values: 0–15  
Default Value: 4 ]

- Select your preferred setting values according to the image to be viewed.

### Adv Color (Advanced Color System)

For some DVDs with computer animation or with very high levels of color, the chroma edge processing circuits may not be needed and this can be set to “OFF(Bypass)”. For most sources, the “Normal” setting should be selected.

[ Setting Values: Normal, Bypass  
Default Value: Normal ]

#### NOTE:

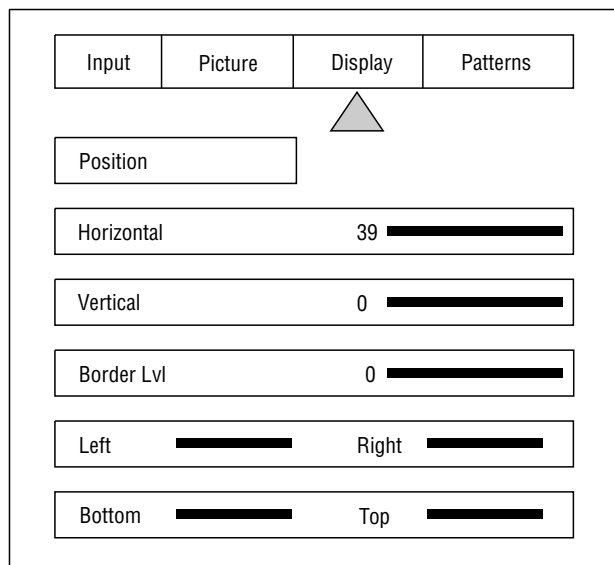
The menus below will not function if “SET: 1080i TO 1080p” is set to “HIGH BANDWIDTH MODE”.

- Aspect
- Tint
- Detail
- Adv Color (Advanced Color System)
- Display

## Adjustments and Settings Using Menus (continued)

### 3 Display Menu

The Display menu will not function if “SET: 1080i TO 1080p” is set to “HIGH BANDWIDTH MODE”.



#### Position

##### Horizontal

Does not function on this processor.

##### Vertical

Does not function on this processor.

##### Border Lvl

Adjusts the blanking level (border level) from black to white. When using a 4:3 source on a 16:9 screen, black bars will appear on the left and right of the image. Adjust these bars to gray color.

[ Setting Values: 0–100  
Default Value: 0 ]

##### Left

Adjusts the blanking level at the left edge. The setting value will be displayed on the LCD.

[ Setting Values: 0–100  
Default Value: 0 ]

##### Right

Adjusts the blanking level at the right edge. The setting value will be displayed on the LCD.

[ Setting Values: 0–100  
Default Value: 100 ]

#### Bottom

Adjusts the blanking level at the bottom edge. The setting value will be displayed on the LCD.

[ Setting Values: 0–100  
Default Value: 0 ]

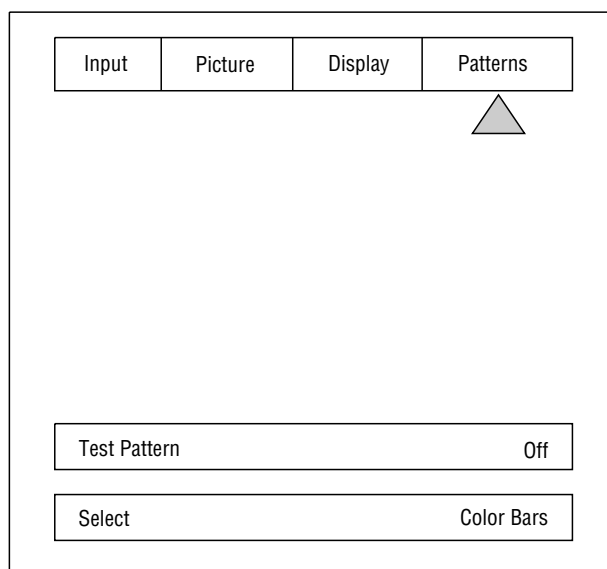
#### Top

Adjusts the blanking level at the top edge. The setting value will be displayed on the LCD.

[ Setting Values: 0–100  
Default Value: 100 ]

### 4 Patterns Menu

The test pattern in this unit. Used for image adjustment, etc. It is not possible to adjust the test pattern itself.



#### Test Pattern

Sets whether to use the test pattern in this unit or not.

[ Setting Values: Off, On  
Default Value: Off ]

#### Select

Selects the test pattern to output.

[ Setting Values:  
Color Bars, Pluge, Window, Multiburst, Border,  
Converge, Blue, Red, Green, Black, Cr Ramp, Cb  
Ramp, Y Ramp, Grey Step, Rev Bars  
Default Value: Color Bars ]

# Warning Displays

When the internal temperature of the unit is high during operation, a warning message will appear on the LCD.

Message	Description of Warning	Actions
<b>“LEVEL 1 WARNING HIGH TEMPERATURE”</b>	Displayed when the internal temperature of the unit is higher than during normal operation.	Turn off the power of the unit and allow the interior to cool down. Upon doing so, check that the air inlets are not blocked and start up the basic operation as usual.
<b>“LEVEL 2 WARNING HIGH TEMPERATURE”</b>	Displayed when the internal temperature of the unit has risen close to the specified value.	Turn off the power of the unit immediately and allow the interior to cool down. Upon doing so, check that the air inlets are not blocked and start up the basic operation as usual.
<b>“LEVEL 3 WARNING EXCESSIVE TEMPERATURE”</b>	Displayed when the internal temperature of the unit has risen to the specified value. The power of this unit will be turned off automatically after the warning message is displayed for 5 seconds.	Pull out the power plug from the outlet and allow the interior to cool down. Upon doing so, check that the air inlets are not blocked and start up the basic operation as usual.

# RS-232C External Control Description

Control of this unit is possible via a computer by connecting the computer to this unit with an RS-232C straight cable (sold separately). The following is a list of commands required for the control. For details, please consult your authorized dealer.

## Command Format

When sending a control command to this unit, insert a comma after the DVP header (without spacing), followed by specifying the command. The “#” shown in each command code represents a parameter (numerical value).

Example: To turn on the power of this unit

**dvp, on [↵ Enter]**

([↵ Enter] denotes carriage return)

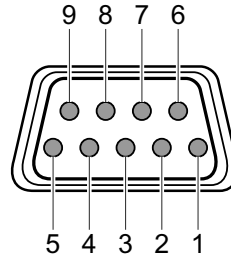
- Upon sending the command to turn on the unit, do not send the next command until this unit has started up (end of initialization).

It is possible to send multiple commands at the same time. To do so, specify the commands before the carriage return and delimit each function command using a comma.

Example : **dvp, on, x, a2,srn4 [↵ Enter]**

(Control command = header, power on, YCrCb (component) input, 16:9, 1280 × 720 scan rate [carriage return])

## RS-232C Terminal



Pin No.	Signal Name
1	N/C
2	RD
3	TD
4	N/C
5	GND
6	N/C
7	N/C
8	N/C
9	N/C

## About Computers

Control this unit from a computer using the standard Windows Hyper Terminal software. Set the computer as follows and connect using a standard RS-232C straight cable (D-sub 9 pin).

Communication speed : 19200 bps

Data bit : 8 bit

Parity : Nil

Stop bit : 1 bit

Flow Control : Nil

## RS-232C Control Commands

### ■ Operation Commands

Code	Range	Description
A#	(0–2) 0 = 4:3, 1 = Letterbox, 2 = 16:9	Input Aspect Ratio
B#	(0–100) 50 (Default value)	Brightness
C#	(0–100) 50 (Default value)	Contrast
D#	(0–15) 4 (Default value)	Detail
DVI		DVI Input
EXT		Pass-through Input
FST		Report current system status
HELP		Display full list of commands
K#	(0–100) 50 (Default value)	Color
OFF		Power OFF
ON		Power ON
P#	(0– 8) [1– 8 = User, 0 = Factory]	Recall profile
PM#	(0–1) [0= Normal, 1= Bypass]	Advanced Color System
R		RGB Input
ST		Report current status
STHELP		Display Setup menu
STNP#	(1–8)	Store NTSC profile
STPP#	(1–8)	Store PAL profile
T#	(0–100) 50 (Default value)	Tint
V		Video Input
X		YCrCb Input
Y		S-Video Input

### ■ Setup Commands

Code	Range	Description
BB#	(0–100) 0 (Default value)	Bottom Blanking
BL#	(0–100) 100 (Default value)	Blanking level of bars on video image (black to white)
BLT#	(06–255)	LCD Backlight Timer on front panel
BLV#	(0 = 0 IRE, 1= 7.5 IRE)	Black Level
CR#	(0 = 0-255, 1= 16-235)	DVI Input Level
CS#	(1 = ON, 0= OFF)	Composite Sync Signal (RGB Output)
DHS#	(0 = NORMAL, 1= WIDE)	Horizontal Sync Signal of DVI Input
DVID		DVI Input disabled
DVIE		DVI Input enabled
E#	( 1= ON, 0= OFF)	RS-232C ECHO
EX#	(0 = SYNC ON GREEN, 1= COMPOSITE SYNC)	RGB Input Sync Signal
EXTD		Pass-through Input disabled
EXTE		Pass-through Input enabled
HDPROC#	(0 = ENHANCED MODE, 1= HIGH BANDWIDTH MODE)	Output scan rate setting for 1080i signals
HP#	(0–50) 39 (Default value)	Horizontal Position
IHA#	(0–50) 25 (Default value)	Adjustment of horizontal position of HD signals
LB#	(0–100) 0 (Default value)	Left Blanking
M#	(0 = RGB, 1= YPrPb)	Output Format
OSDOFF		OSD Off
OSDON		OSD On

## RS-232C External Control Description (continued)

Code	Range	Description
OSDT#	(0–255) 30 (Default value)	OSD Timer
OUTMOD	(0 = ANALOG YPrPb, 1 = DVI, 2 = ANALOG RGB, 3 = ANALOG RGB+DVI)	Output Mode
RB#	(0–100) 100 (Default value)	Right Blanking
RD		RGB Input disabled
RE		RGB Input enabled
SCRTRG#	(1 = ON, 0= OFF)	12 V Screen Trigger
SETFT		Restore factory defaults
SRN#	(1–12)	Select NTSC scan rate
SRNHELP		NTSC Scan Rate Help Menu
SRP#	(1–6)	Select PAL scan rate
SRPHELP		PAL Scan Rate Help Menu
TB#	(0–100) 100 (Default value)	Top Blanking
TPHLP		Display test pattern Help menu
STHELP		Setup Help Menu
VP#	(0–20) 0 (Default value)	Vertical Position
VPOL#	(0 = Neg, 1= Pos)	Vsync Polarity
W#	(0 = 4:3, 1= WIDESCREEN, 2= WIDE 4:3)	Screen Shape
XD		YCrCb Input disabled
XE		YCrCb Input enabled
YD		S-video Input disabled
YE		S-video Input enabled

### ■ NTSC Scan Rate List

- This unit uses NTSC scan rate “1920 × 1080”. Other scan rates are not used.

SRN1	1400 × 788	SRN2	1920 × 540
SRN3	800 × 600	SRN4	1280 × 720
SRN5	1024 × 768	SRN6	1280 × 768
SRN7	1366 × 768	SRN8	1440 × 960
SRN9	1280 × 1024	SRN10	1365 × 1024 (DILA)
SRN11	1400 × 1050 (DILA3)	SRN12	1920 × 1080

### ■ PAL Scan Rate List

- This unit uses PAL scan rate “1920 × 1080/50Hz”. Other scan rates are not used.

SRP1	720 × 576/50Hz	SRP2	720 × 576/100Hz
SRP3	1280 × 720/50Hz	SRP4	1024 × 768/75Hz
SRP5	1024 × 768/100Hz	SRP6	1920 × 1080/50Hz

### ■ Test Pattern Help Menu

TP0	Test Pattern Off	TP1	Color Bars
TP2	Rev Bars	TP3	Grey Step
TP4	Y Ramp	TP5	Cb Ramp
TP6	Cr Ramp	TP7	Black
TP8	Green	TP9	Red
TP10	Blue	TP11	Converge
TP12	Border	TP13	Multiburst
TP14	Window	TP15	Pluge



# Specifications

■ <b>Model Name/Article Name</b>	LD-HD2KBU/LD-HD2KBE Digital Video Processor																																									
■ <b>Color System</b>	NTSC, PAL (Auto switching)																																									
■ <b>Input Terminals</b>	Video input: 480i/480p/576i/576p/720p/1080i																																									
<b>VIDEO</b>	1-line, BNC × 1 1.0 Vp-p																																									
<b>S-VIDEO</b>	1-line, mini-DIN 4 pin × 1 Y: 1.0 Vp-p, C: 0.286 Vp-p																																									
<b>R, Gs ,B, C-SYNC</b>	1-line, BNC × 4 R/G/B: 0.7 Vp-p, C-SYNC: 1.0 Vp-p																																									
<b>Y, Pr, Pb</b>	1-line, BNC × 3 Y: 1.0 Vp-p, Pr/Pb: 0.7 Vp-p																																									
<b>DVI INPUT</b>	1-line, DVI-D 24 pin, *HDCP-compatible																																									
<b>PASS-THRU</b>	1-line, D-sub 15 pin																																									
	<table border="1"> <thead> <tr> <th>Pin No.</th> <th>Signal Name</th> <th>Pin No.</th> <th>Signal Name</th> <th>Pin No.</th> <th>Signal Name</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Red, Pr</td> <td>6</td> <td>GND</td> <td>11</td> <td>—</td> </tr> <tr> <td>2</td> <td>Green, Y</td> <td>7</td> <td>GND</td> <td>12</td> <td>—</td> </tr> <tr> <td>3</td> <td>Blue, Pb</td> <td>8</td> <td>GND</td> <td>13</td> <td>H-sync</td> </tr> <tr> <td>4</td> <td>—</td> <td>9</td> <td>—</td> <td>14</td> <td>V-sync</td> </tr> <tr> <td>5</td> <td>GND</td> <td>10</td> <td>GND</td> <td>15</td> <td>—</td> </tr> </tbody> </table>						Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name	1	Red, Pr	6	GND	11	—	2	Green, Y	7	GND	12	—	3	Blue, Pb	8	GND	13	H-sync	4	—	9	—	14	V-sync	5	GND	10	GND	15	—
Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name																																					
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3	Blue, Pb	8	GND	13	H-sync																																					
4	—	9	—	14	V-sync																																					
5	GND	10	GND	15	—																																					
<b>RS-232 CONTROL</b>	1-line, D-sub 9 pin, RS-232C (External control)																																									
<b>IR LED</b>	Cannot be used with this processor.																																									
<b>RS-232C OPTION</b>	Cannot be used with this processor.																																									
■ <b>Output Terminals</b>	Output Signal: 1080/50p, 1080/60p																																									
<b>R, G, B, H/V-SYNC</b>	1-line, BNC × 5 R/G/B: 0.7 Vp-p/75 Ω, H/V SYNC: 4.5 V/2 kΩ																																									
<b>Y, Pr, Pb</b>	1-line, BNC × 3 Y: 1.0 Vp-p, Pr/Pb: 0.7 Vp-p																																									
<b>MONITOR</b>	1-line, D-sub 15 pin R/G/B/Pr/Pb: 0.7 Vp-p/75 Ω, Y: 1.0 Vp-p, H/V: 4.5 V/2 kΩ																																									
<b>DVI OUTPUT</b>	1-line, DVI-D 24 pin, *HDCP-compatible																																									
<b>SCREEN</b>	1-line, ø 3.5 mm, monaural mini-jack (DC +12 V/100 mA)																																									
■ <b>Power Requirements</b>	AC 100 V - 240 V, 50 Hz/60 Hz, Power consumption 1.0 A																																									
■ <b>Operation Environment</b>	Temperature : 41 °F to 95 °F (+5 °C to +35 °C) Humidity : 20 % to 80 % (No condensation) Storage Temperature : 14 °F to 140 °F (-10 °C to +60 °C)																																									
■ <b>Dimensions (Width x Height x Depth)</b>	Approx. 1 3/4" × approx. 17 " × approx. 11 4/5" (Approx. 45 mm × Approx. 438 mm × Approx. 303 mm) (Excluding carrying handle, lens and protrusion portion)																																									
■ <b>Mass</b>	Approx. 13.9 lbs (Approx. 6.3 Kg)																																									
■ <b>Accessories</b>	(Refer to Page 9.)																																									

\* The image of DVI-D input terminal may not be displayed due to HDCP specification change.

- Design and specifications are subject to change without prior notice.
- Please note that some of the pictures and illustrations may have been abridged, enlarged or contextualized in order to aid comprehension. Images may differ from the actual product.





