

SONY

TRINITRON® CHARACTER DISPLAY

CPD-1310

OPERATING INSTRUCTIONS page 2

Welcome to the advanced world of Sony character display unit. For the best results and the utmost satisfaction from your new set, please read this manual thoroughly and retain it for future reference.

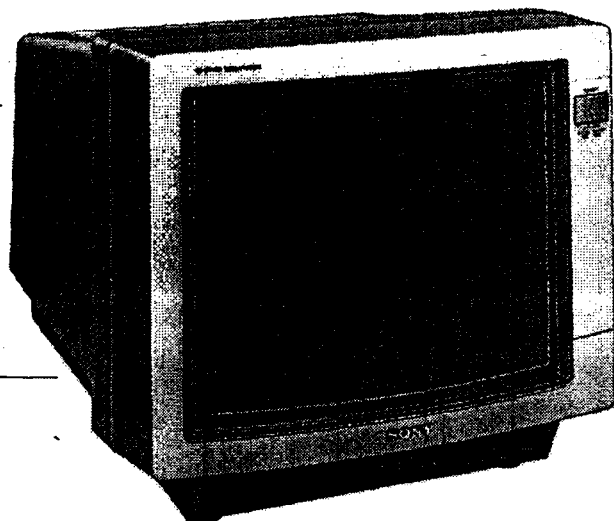
OWNER'S RECORD

The model and serial numbers are located at the rear. Record the serial number in the space provided below. Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. CPD-1310 Serial No.

MODE D'EMPLOI page 8

Bienvenue dans le monde futuriste des terminaux d'affichage alphanumérique Sony. Pour obtenir d'excellents résultats et être entièrement satisfait de ce nouvel appareil, lire attentivement ce mode d'emploi et le conserver pour toute référence ultérieure.

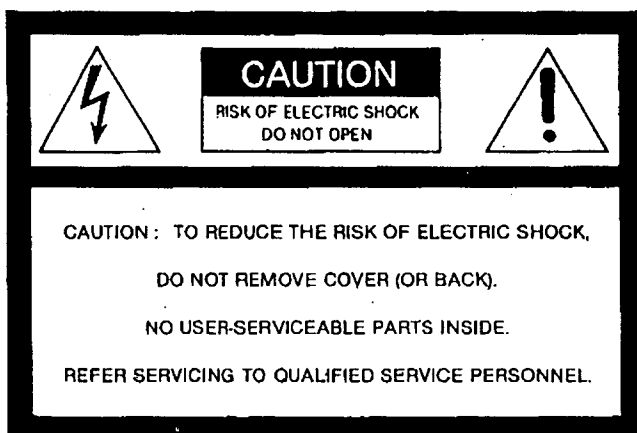


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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

CAUTION:
TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient the receiving antenna.

Relocate the equipment with respect to the receiver.

Move the equipment away from the receiver.

Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC Rules.

PRECAUTIONS

Safety

- Operate the set only on 120 V AC.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- Should any liquid or solid object fall into the cabinet, unplug the set and have it checked by qualified personnel before operating it any further.
- Unplug the set from the wall outlet if it is not going to be used for several days or more. To disconnect the cord, pull it out by the plug. Never pull the cord itself.

Installation

- To prevent internal heat build-up, do not block the ventilation openings.
- Do not install the set in a hot or humid place or in a place subject to excessive dust or mechanical vibration.

Cleaning

Clean the set with a slightly damp soft cloth. Use a mild household detergent. Never use strong solvents such as thinner or benzine as they might damage the finish of the cabinet.

Repacking

Retain the original carton and packing materials for safe transport of this set in the future.

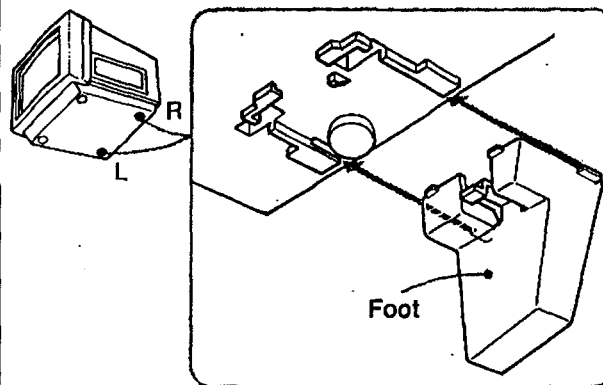
FEATURES

- New Microblack™ Trinitron® picture tube for higher resolution, higher contrast display
- Digital or analog RGB input acceptable
- INTENSITY input for 16-color display on the connected IBM P.C.-series microcomputer

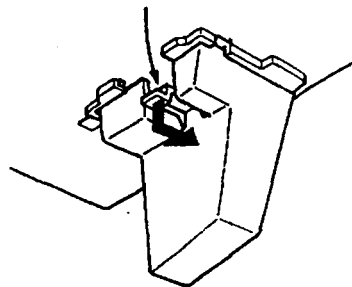
USE OF THE SUPPLIED FEET

To set the screen vertically, attach the supplied feet to the bottom of the character display unit as illustrated.

Attach the foot indicated "R" to the right and the one indicated "L" to the left. Fully insert the projections of the foot into the hooks.

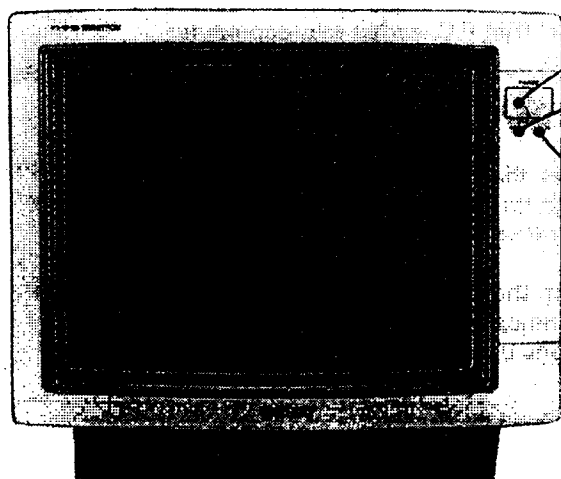


To remove
While pressing down the tab, pull out the foot.



LOCATION AND FUNCTION OF CONTROLS

Front



POWER switch

Press to turn on the character display unit. To turn it off, press the switch again.

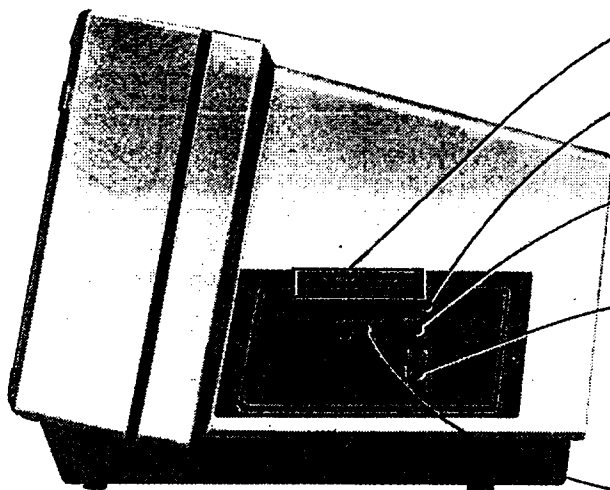
DIGITAL Indicator

Lights to show that the digital RGB input signals are displayed.

ANALOG Indicator

Lights to show that the analog RGB input signals are displayed.

Right side



Used for picture adjustments. See page 6.

V (vertical) SIZE control See page 6.

INTENSITY switch

When the microcomputer provided with the intensity output is connected, set this switch to ON for 16-color display.

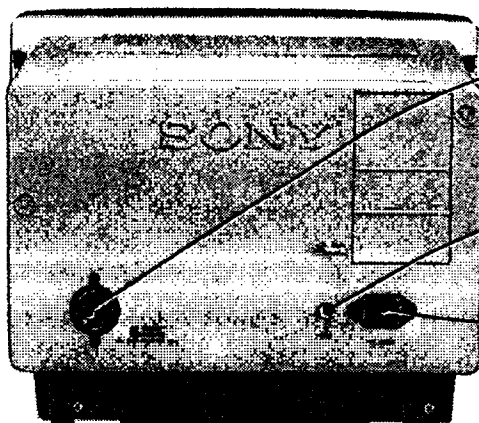
DIGITAL/ANALOG RGB input connector (8 pin)

Connect to either digital or analog RGB output of a microcomputer.

RGB INPUT SELECT switch

Set to DIGITAL or ANALOG according to the RGB output signal of the connected microcomputer.

Rear



AC OUTLET (unswitched, 120 V ac, 60 Hz)

Supplies ac power only to the microcomputer whose power consumption is 2 A or less.

Ground terminal

Connecting this terminal to the ground terminal of the microcomputer may reduce interferences.

AC IN socket

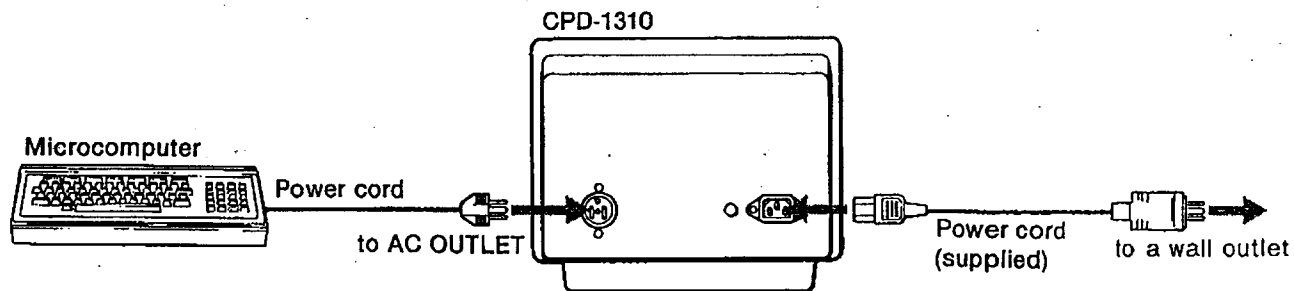
Connect the supplied ac power cord.

The screen of the monitor lights only when a signal is input.

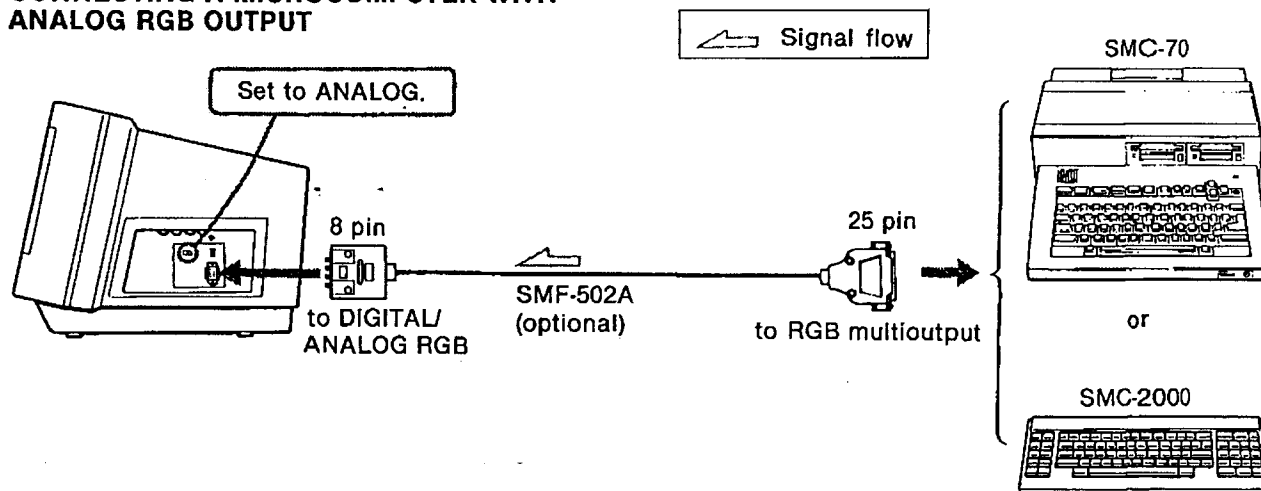
CONNECTIONS

Power connection

To avoid interference with radio or TV reception, always connect the power cord of the microcomputer to the AC OUTLET of this unit, described in the connection configuration below. This is indispensable to comply with FCC Rule Part 15 Subpart J, regulating interference to radio or TV reception caused by computing device.

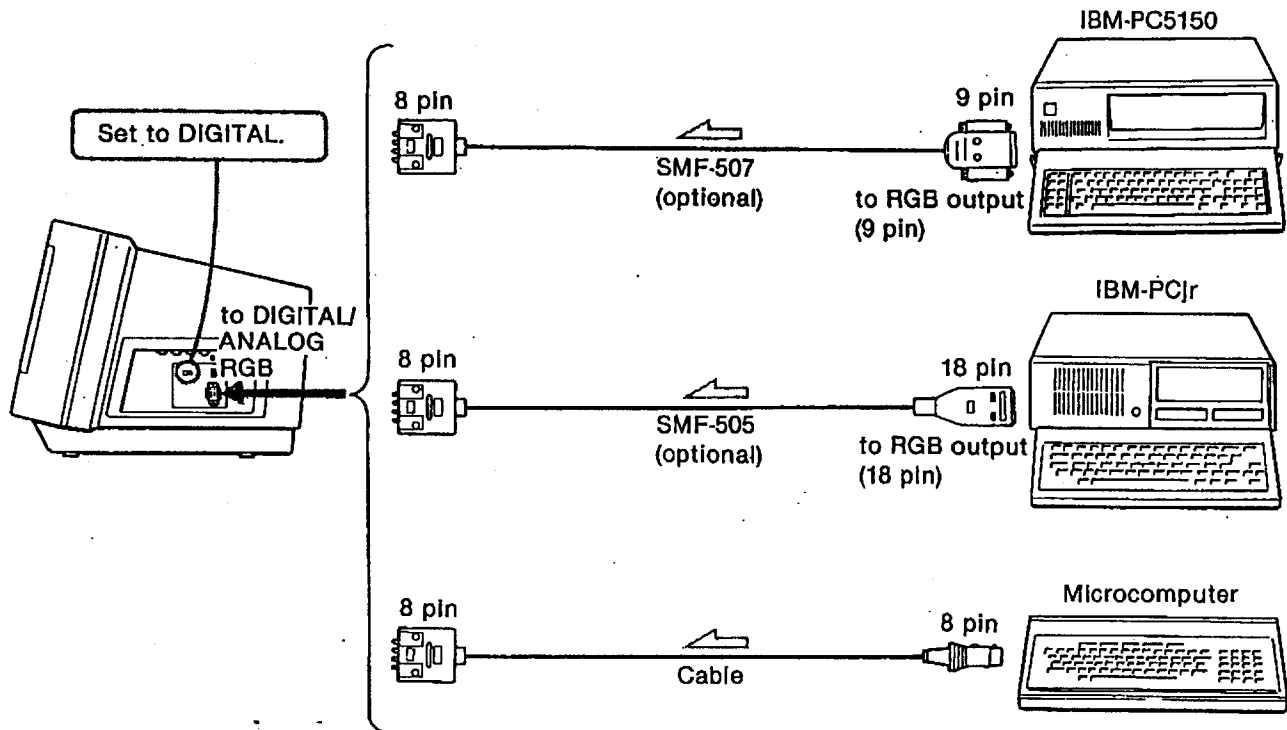


CONNECTING A MICROCOMPUTER WITH ANALOG RGB OUTPUT



CONNECTING A MICROCOMPUTER WITH DIGITAL RGB OUTPUT

- Set the INTENSITY switch to ON only when using IBM P.C.-series microcomputers.
- For connecting microcomputers other than the IBM, use a cable connector with the pin No. 1 opened.



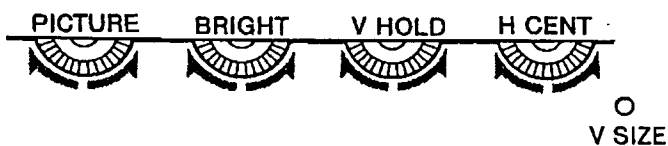
Note

This character display unit cannot be used with a microcomputer which requires super high resolution display (more than 640 × 200 dots).

PICTURE ADJUSTMENTS

Satisfactory results will usually be obtained with the controls set at the normal center or center detent position. If any adjustments are necessary, turn the controls as follows.

Right side



PICTURE: Turn to the left to increase picture contrast or to the right to decrease it.

BRIGHT: Turn to the left for more brightness or to the right for less brightness.

V HOLD: Turn to the left or right to stabilize the picture if it rolls vertically.

H CENT: Turn to the left or right to center the picture if required. The picture moves more by turning the control to the right than turning it to the left.

V SIZE: Usually, turn this control fully clockwise. To reduce the picture size vertically, turn it anticlockwise with a screwdriver.

SPECIFICATIONS

Picture tube Microblack Trinitron tube
 13-inch picture measured diagonally
 14-inch picture tube measured diagonally

Character display
 2,000 characters
 (5 × 7 dots, 80 characters × 25 lines)

Graphic display
 640 × 200 dots

DIGITAL/ANALOG RGB Input
 8 pin connector
 See "Signal assignment".

Power requirements
 120 V ac, 60 Hz

Power consumption
 2.8 A

AC outlet
 Unswitched, 2 A max.

Dimensions
 Approx. 385 × 342 × 434 mm (w/h/d)
 (15 1/16 × 13 1/2 × 17 1/8 inches)
 incl. projecting parts and controls

Weight
 Approx. 11.5 kg (25 lb 6 oz)

Supplied accessories
 AC power cord (1)
 Foot (2)

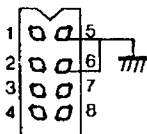
Design and specifications subject to change without notice.

OPTIONAL ACCESSORIES

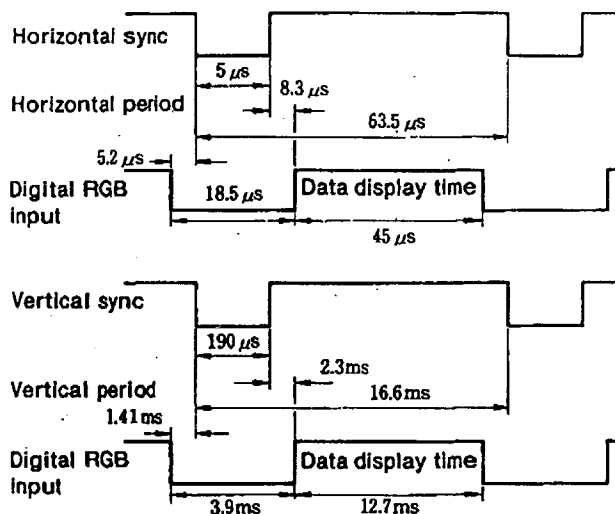
Connecting cable
 SMF-502 (2 m)/502 A (1 m)
 (8 pin to 25 pin)
 SMF-505 (8 pin to 18 pin)
 SMF-507 (8 pin to 9 pin)

SIGNAL ASSIGNMENT

Digital/analog RGB Input connector



Standard timing chart



Note

If the input signals are not recommended ones, the dimensions of the character display area may change or the picture may be decentered due to the timing of the connected microcomputer. This is not trouble of the character display unit.

Pin No.	Digital signal		Analog signal	
	Signal	Signal level	Signal	Signal level
1	Intensity input	Positive polarity TTL level	—	(not connected)
2	Red input	Positive polarity TTL level	Red input	0.7 V p-p, 75 ohms terminated, Positive polarity linear only
3	Green input		Green input	
4	Blue input		Blue input	
5	Ground	—	Ground	—
6	Ground	—	Ground	—
7	H. sync input	Negative/positive polarity TTL level	Composit sync input	0.2-1.2 V p-p, 75 ohms terminated, sync negative
8	V. sync input		—	(not connected)

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AVERTISSEMENT

Afin d'éviter tout risque d'incendie ou d'électrocution, ne pas exposer l'appareil à la pluie ou à l'humidité.

L'appareil renferme de hautes tensions très dangereuses. Ne pas ouvrir le coffret. Confier l'entretien de l'appareil uniquement à un personnel qualifié.

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES, NE PAS UTILISER CETTE FICHE SECTEUR POLARISEE AVEC UN RACCORD, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

PRECAUTIONS

Sécurité

- Ne faire fonctionner que sur secteur de 120 V.
- Par mesure de sécurité, une des lames de la fiche est plus large que l'autre et elles ne peuvent donc être insérées que d'une seule façon. Si l'on ne parvient pas à insérer la fiche à fond dans la prise, s'adresser à un concessionnaire.
- Si un liquide ou un solide devait pénétrer à l'intérieur du coffret, débrancher le cordon et, avant de remettre l'appareil en service, le faire vérifier par un technicien compétent.
- Débrancher l'appareil au niveau de la prise secteur lorsque son fonctionnement sera interrompu pendant plusieurs jours. Toujours débrancher en tirant sur la fiche et non sur le cordon proprement dit.

Installation

- Pour éviter un échauffement interne, ne pas boucher les orifices de ventilation.
- Ne pas installer l'appareil dans un local humide et chaud ou dans un endroit très poussiéreux ou soumis à des vibrations mécaniques.

Nettoyage

Nettoyer l'appareil à l'aide d'un linge doux, légèrement humide. Utiliser un détergent ménager doux, mais jamais de solvants puissants, tels que du diluant ou de la benzine, qui endommageraient la finition du coffret.

Remballage

Conserver le carton d'origine et les matériaux qu'il contient en vue d'un transport sûr de l'appareil à l'avenir.

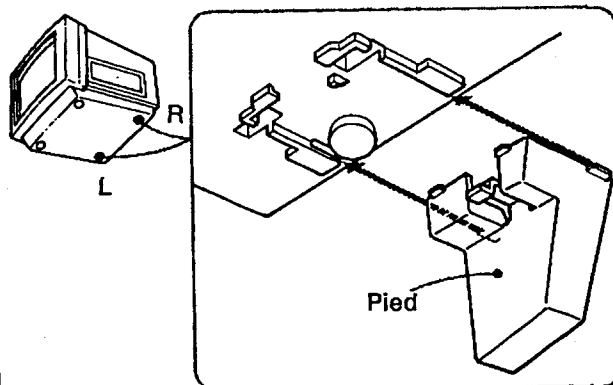
CARACTERISTIQUES

- Nouveau tube Image Trinitron® Microblack™, assurant une haute définition et un meilleur contraste de l'image
- Compatible à l'entrée RGB numérique ou analogique
- Entrée INTENSITY pour affichage à 16 couleurs sur un micro-ordinateur IBM de série P.C.

UTILISATION DES PIEDS

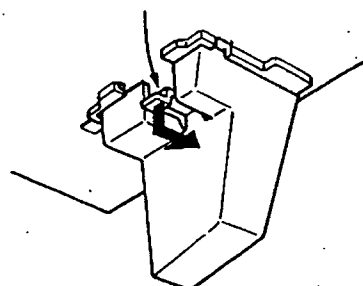
Pour installer l'écran verticalement, fixer les pieds fournis sur le fond du terminal comme illustré.

Fixer le pied marqué "R" à droite et le pied marqué "L" à gauche. Insérer à fond les saillies de chaque pied dans les crochets.



Retrait

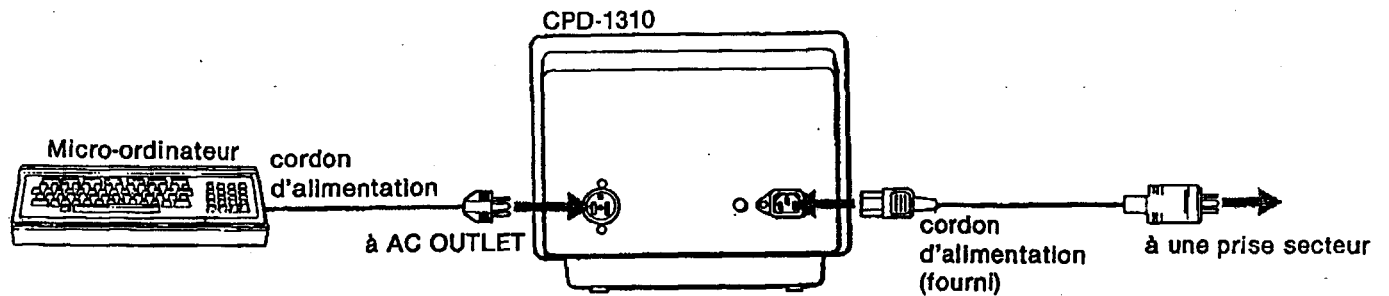
Tirer sur le pied tout en poussant l'onglet vers le bas.



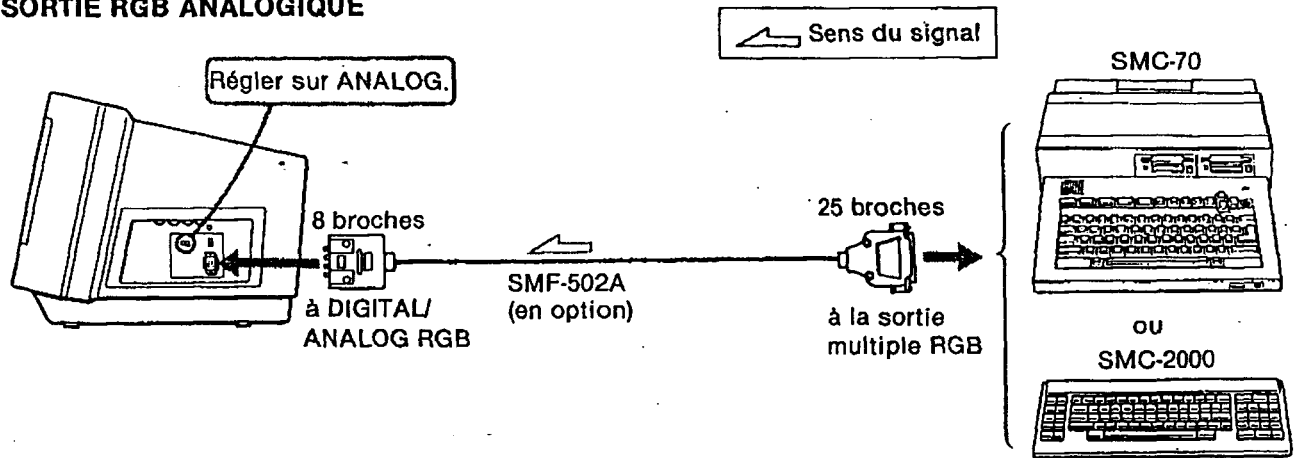
CONNEXIONS

Connexion d'alimentation

Pour éviter la création d'interférences sur la réception des ondes de radio ou de télévision, brancher toujours le cordon d'alimentation du micro-ordinateur sur la prise AC OUTLET de cet appareil, comme illustré sur le schéma de connexion ci-après.



CONNEXION D'UN MICRO-ORDINATEUR A SORTIE RGB ANALOGIQUE



SPECIFICATIONS

Tube image Tube Trinitron "Microblack" à image de 13 pouces en mesure diagonale et tube de 14 pouces en mesure diagonale

Affichage de caractères 2 000 caractères (5 × 7 points, 80 caractères sur 25 lignes)

Affichage graphique 640 × 200 points

Entrée DIGITAL/ANALOG RGB Connecteur à 8 broches Voir "Agencement des broches".

Alimentation Secteur 120 V, 60 Hz

Consommation 2,8 A.

Prise secteur Non commutée, 2 A maxi

Dimensions hors tout Env. 385 × 342 × 434 mm (l/h/p) (15 1/16 × 13 1/2 × 17 1/8 pouces)

Poids Env. 11,5 kg (25 livres 6 onces)

Accessoires fournis Cordon d'alimentation secteur (1) Pied (2)

La conception et les spécifications peuvent être modifiées sans préavis.

ACCESSOIRES EN OPTION

Câble de raccordement
SMF-502 (2 m)/502 A (1 m)
(8 broches à 25 broches)
SMF-505 (8 broches à 18 broches)
SMF-507 (8 broches à 9 broches)

AGENCEMENT DES BROCHES

Connecteur d'entrée RGB numérique/analogique

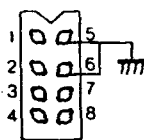
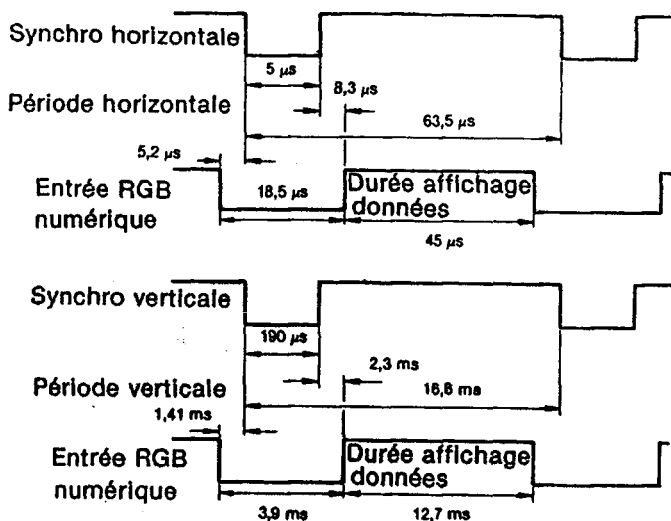


Schéma de synchronisation standard



Remarque

Si les signaux d'entrée ne sont pas ceux qui sont recommandés, il arrivera que les dimensions de la zone d'affichage soient changées ou que l'image soit décentrée par suite de la synchronisation du micro-ordinateur raccordé. Toutefois, ceci ne constitue pas une défaillance du terminal d'affichage alphanumérique.

Broche N°	Signal numérique		Signal analogique	
	Signal	Niveau de signal	Signal	Niveau de signal
1	Entrée intensité	Polarité positive Niveau TTL	—	(non raccordé)
2	Entrée rouge	Polarité positive Niveau TTL	Entrée rouge	0,7 V c-c, terminaison 75 ohms, Polarité positive linéaire uniquement
3	Entrée vert		Entrée vert	
4	Entrée bleu		Entrée bleu	
5	Masse	—	Masse	—
6	Masse	—	Masse	—
7	Entrée synchro H	Polarité négative/ positive Niveau TTL	Entrée synchro composite	0,2 à 1,2 V c-c, terminaison 75 ohms, synchro négative
8	Entrée synchro V		—	(non raccordé)