

# LTC 2914/91, LTC 2917/91, & LTC 2919/90 Color Video Monitors

Eng

Installation Instructions



Photo inset shows LTC 2919/90 with rack mount kit installed (sold separately).

## IMPORTANT SAFEGUARDS

1. Read Instructions - All the safety and operating instructions should be read before the unit is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the unit and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug the unit from the outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture - Do not use this unit near water - for example, in a wet basement, near a swimming pool, in an unprotected outdoor installation, or in any area which is classified as a wet location.
8. Accessories - Do not place this unit on an unstable stand, tripod, bracket, or mount. The unit may fall, causing serious injury to a person and serious damage to the unit. Use only with a stand, tripod, bracket, or mount recommended by the manufacturer or sold with the product. Any mounting of the unit should follow the manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.



An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

9. Ventilation - Openings in the enclosure, if any, are provided for ventilation, to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. This unit should not be placed in a built-in installation unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power Sources - This unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply you plan to use, consult your dealer or local power company. For units intended to operate from battery power or other sources, refer to the operating instructions.
11. Grounding or Polarization - This unit may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.  
Alternately, this unit may be equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
12. Power Cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
13. Power Lines - An outdoor system should not be located in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outdoor system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. U.S.A. models only - refer to the National Electrical Code Article 820 regarding installation of CATV systems.
14. Overloading - Do not overload outlets and extension cords as this can result in a risk of fire or electric shock.
15. Object and Liquid Entry - Never push objects of any kind into this unit 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 unit.
16. Servicing - Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

17. Damage Requiring Service - Unplug the unit from the outlet and refer servicing 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 into the unit.
  - c. If the unit has been exposed to water and/or inclement weather (rain, snow, etc.).
  - d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
  - e. If the unit has been dropped or the cabinet has been damaged.
  - f. When the unit exhibits a distinct change in performance—this indicates a need for service.
18. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
19. Safety Check - Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.
20. Coax Grounding - If an outside cable system is connected to the unit, be sure the cable system is grounded. U.S.A. models only—Section 810 of the National Electrical Code, ANSI/NFPA No.70-1981, provides information with respect to proper grounding of the mount and supporting structure, grounding of the coax to a discharge unit, size of grounding conductors, location of discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
21. Lightning - For added protection of this unit 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 unit due to lightning and power-line surges.

## FCC & ICES INFORMATION

### (U.S.A. and Canadian Models Only)

WARNING - This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules and ICES-003 of Industry Canada. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and radiates 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 encouraged 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 and receiver.
- 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.



Intentional or unintentional changes or modifications not expressly approved by the party responsible for compliance shall not be made. Any such changes or modifications could void the user's authority to operate the equipment. 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.

**For additional information or to speak to a representative, please contact the Philips Communication, Security & Imaging location nearest you:**

**The Americas: 1 800 326 3270**  
**Europe & Middle East: 31 40 278 1222**  
**Asia Pacific Region: 65 350 1859**

**or visit our Web site at [www.philipscsi.com](http://www.philipscsi.com).**

## SECURITY

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK. DO NOT OPEN!	
<b>CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT OPEN COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</b>		

This label may appear on the bottom of the unit due to space limitations.



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



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



Attention: Installation should be performed by qualified service personnel only in accordance with the National Electrical Code or applicable local codes.

**WARNING  
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE UNITS TO RAIN OR MOISTURE.**

## SECURITE

	<b>ATTENTION</b> RISQUE D'ÉLECTROCUTION. NE PAS OUVRIR	
<b>DANGER: POUR ÉVITER TOUT RISQUE D'ÉLECTROCUTION, NE PAS OUVRIR LE BOÎTIER. IL N'Y A PAS DE PIÈCES REMPLAÇABLES À L'INTÉRIEUR. POUR TOUTE RÉVISION, S'ADRESSER À UN TECHNICIEN SPÉCIALISÉ.</b>		

En raison de limitation de place, cette étiquette peut être placée sur le dessous de l'appareil.



L'éclair fléché dans un triangle équilatéral, avertit l'utilisateur de la présence d'une “tension dangereuse” non isolée à l'intérieur de l'appareil et d'une valeur suffisante pour constituer un risque d'électrocution.





Le point d'exclamation contenu dans un triangle équilatéral, avertit l'utilisateur de la présence, dans la documentation qui accompagne l'appareil, de consignes d'utilisation et de maintenance importantes.



Attention: L'installation doit être effectuée uniquement par du personnel de service qualifié conformément à la réglementation du Code Electrique National ou à la réglementation locale.

**ATTENTION:  
POUR ÉVITER LE RISQUE D'ÉLECTROCUTION OU D'INCENDIE, NE PAS EXPOSER À LA PLUIE OU À L'HUMIDITÉ UN APPAREIL.**

## SICHERHEITSVORKEHRUNGEN

	<b>VORSICHT</b> STROMSCHLAGEGFAHR! BITTE NICHT ÖFFNEN!	
<b>VORSICHT: UM EINEN ELEKTRISCHEN SCHLAG ZU VERMEIDEN, ABDECKUNG NICHT ENTFERNEN. WARTUNGEN ALLER ART QUALIFIZIERTEM PERSONAL ÜBERLASSEN.</b>		

Aus Platzgründen kann diese Warnung auf der Unterseite des Gerätes angebracht sein.



Das Blitzsymbol im gleichseitigen Dreieck soll den Benutzer auf nicht isolierte "Hochspannung" im Gehäuse aufmerksam machen, die eventuell stark genug ist, um einen elektrischen Schlag zu verursachen.



Das Ausrufezeichen im gleichseitigen Dreieck soll den Benutzer auf wichtige Bedienungs- und Wartungsanleitungen in der dem Gerät beigefügten Literatur aufmerksam machen.



Achtung! Die Installation sollte nur von qualifiziertem Kundendienstpersonal gemäß jeweilig zutreffender Elektrovorschriften ausgeführt werden.

<b>WARNUNG</b> <b>UM FEUER ODER ELEKTRISCHE SCHLÄGE ZU VERMEIDEN, SETZEN SIE DAS GERÄT NIEMALS REGEN ODER FEUCHTIGKEIT AUS.</b>
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## PRECAUCIONES DE SEGURIDAD

	<b>PRECAUCION</b> RIESGO DE CHOQUE ELECTRICO. ¡NO ABRIR!	
<b>PRECAUCION: PARA REDUCIR EL RIESGO DE CHOQUE ELÉCTRICO, FAVOR NO ABRIR LA CUBIERTA. ESTE EQUIPO NO CONSTA DE PIEZAS O PARTES QUE REQUIEREN SERVICIO O MANTENIMIENTO. PARA REPARACIONES FAVOR REFERIRSE A UN TÉCNICO CALIFICADO.</b>		

Debido a limitaciones de espacio, esta etiqueta puede aparecer en la parte inferior de la unidad.



El símbolo representado por un relámpago con punta de flecha dentro de un triángulo equilátero, se muestra con el objetivo de alertar al usuario que existen "voltajes peligrosos" sin aislamiento, dentro de la cubierta de la unidad. Dichos voltajes pueden ser de tal magnitud que constituyen un riesgo de choque eléctrico a personas.



El símbolo de exclamación dentro de un triángulo equilátero, se muestra con el objetivo de alertar al usuario de que instrucciones de operación y mantenimiento importantes acompañan al equipo.



Atención: La instalación de este equipo debe ser realizada por personal capacitado, solo en acuerdo, y en cumplimiento de normas del "National Electric Code" (Código Eléctrico Nacional) ó las normas del Gobierno Nacional Local.

<b>PELIGRO</b> <b>PARA EVITAR EL PELIGRO DE INCENDIO Ó CHOQUE ELÉCTRICO, NO EXPONGA A LA LLUVIA Ó HUMEDAD.</b>
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## I INTRODUCTION

### I.1 Monitors

The LTC 2914/91 (14-inch/36 cm), LTC 2917/91 (17-inch/44 cm), and LTC 2919/90 (19-inch/48 cm) monitors are intended for display of PAL or NTSC standard color pictures in CCTV systems. This family of monitors accepts two (2) Composite Video inputs with loop-through BNC connectors and one (1) Y/C loop-through input with two (2) 4-pin mini-DIN connectors, located on the rear of the monitors.

The video input selection buttons (A, B, Y/C, and SEQ) are located on the front of the monitor.

For applications that require audio, two (2) sets of audio phono jack connectors are provided on the rear panel.

### I.2 Unpacking

Read these instructions carefully.

Unpack carefully. Monitors are electronic equipment and should be handled carefully. Check for the following items:

- LTC 2914/91, LTC 2917/91, or LTC 2919/90 Color Video Monitor.
- Two (2) Power Cords: One (1) for 120 VAC, 60 Hz mains power; one (1) for 230 VAC, 50 Hz mains power.
- Installation Instructions

### I.3 Accessories (Not Included)

**LTC 9113/00 Rack Kit:** For mounting one LTC 2914/91 monitor in a 19-inch standard EIA rack.

**LTC 9117/00 Rack Kit:** For mounting one LTC 2917/91 monitor in a 19-inch standard EIA rack.

**LTC 9119/00 Rack Kit:** For mounting one LTC 2919/90 monitor in a 19-inch standard EIA rack.

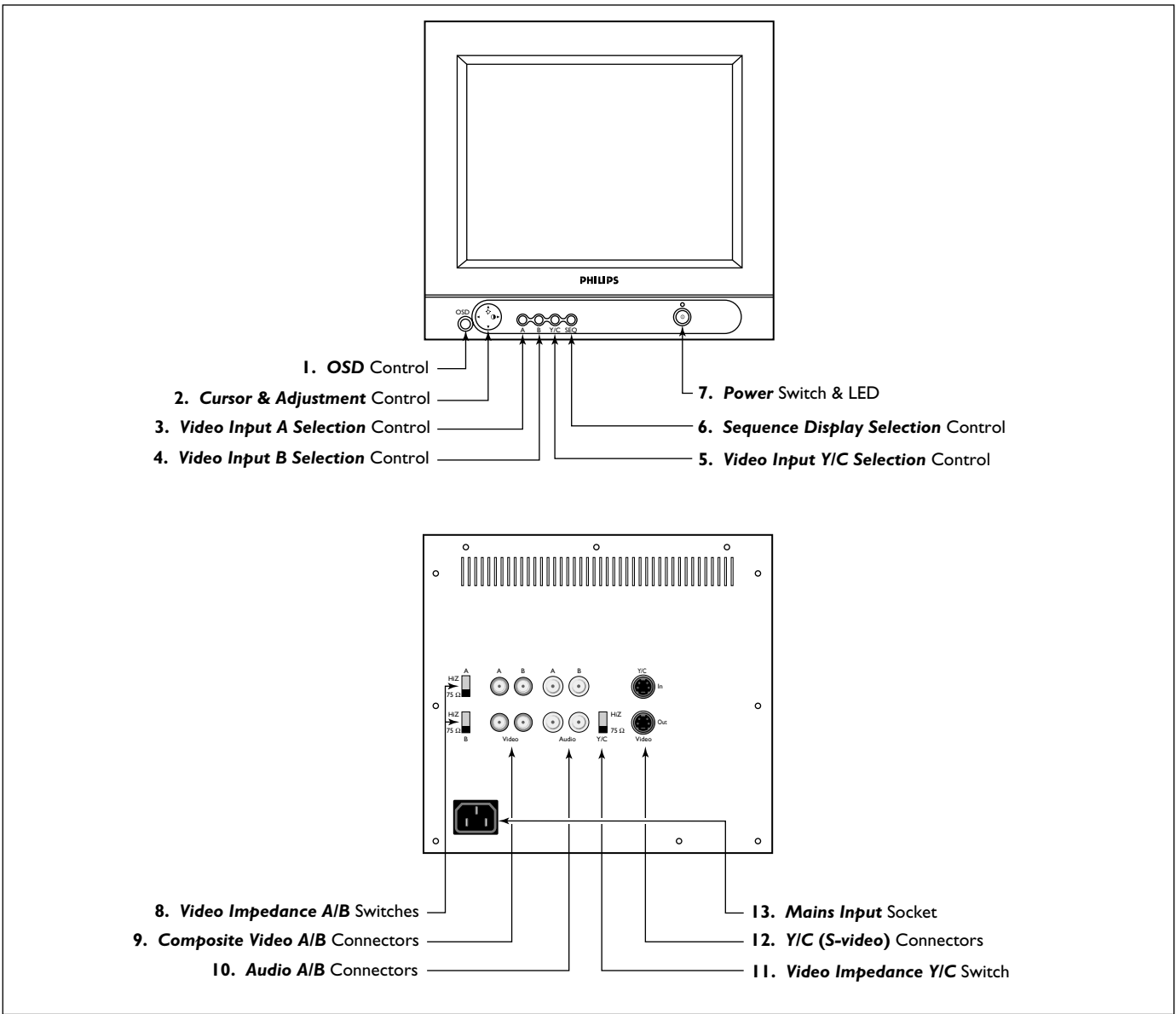


Fig 1 Monitor Models LTC 2914/91, LTC 2917/91, and LTC 2919/90 – Front and Rear Views

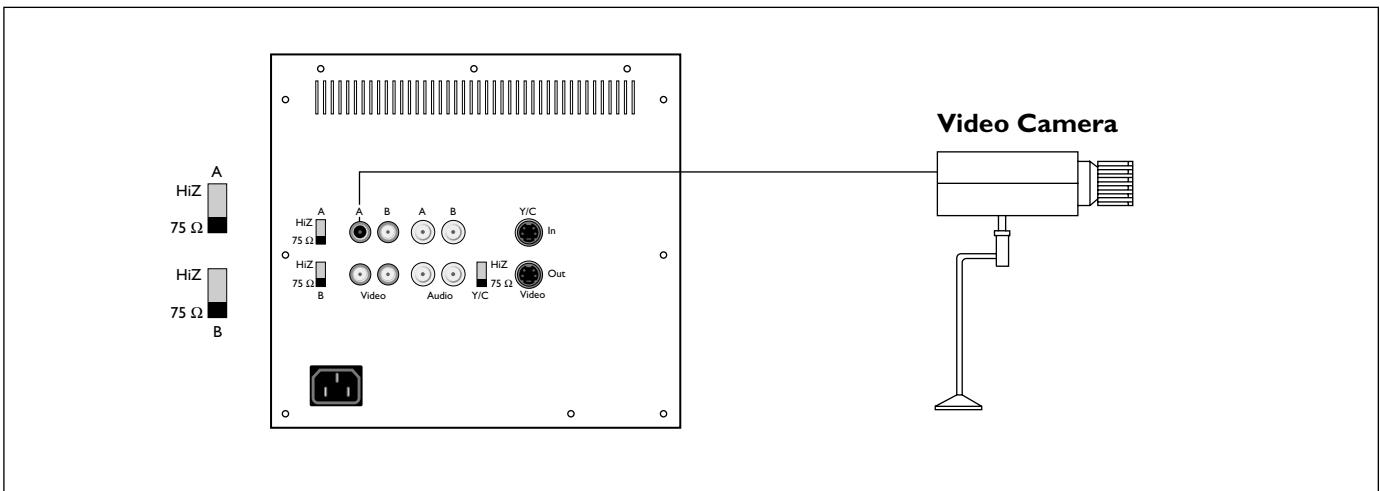


Fig 2 Connecting a Single Monitor

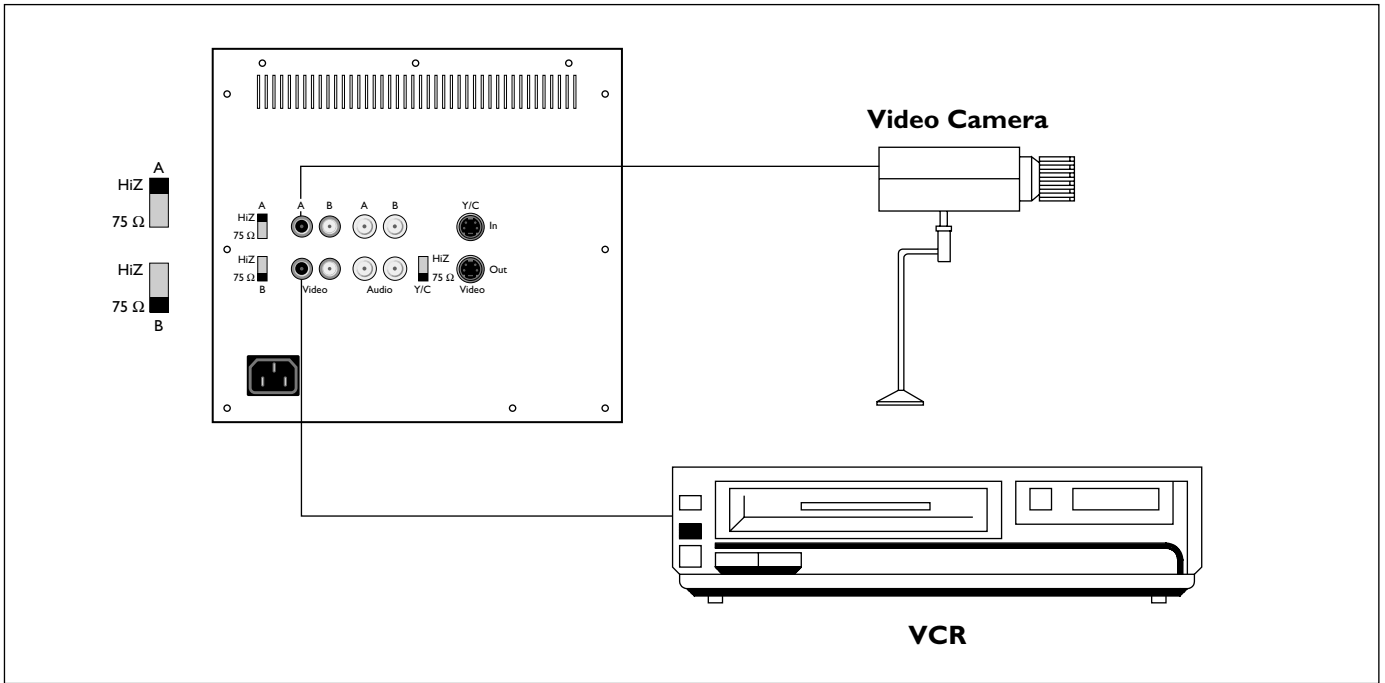


Fig 3a Outputting Video Signal to External Device

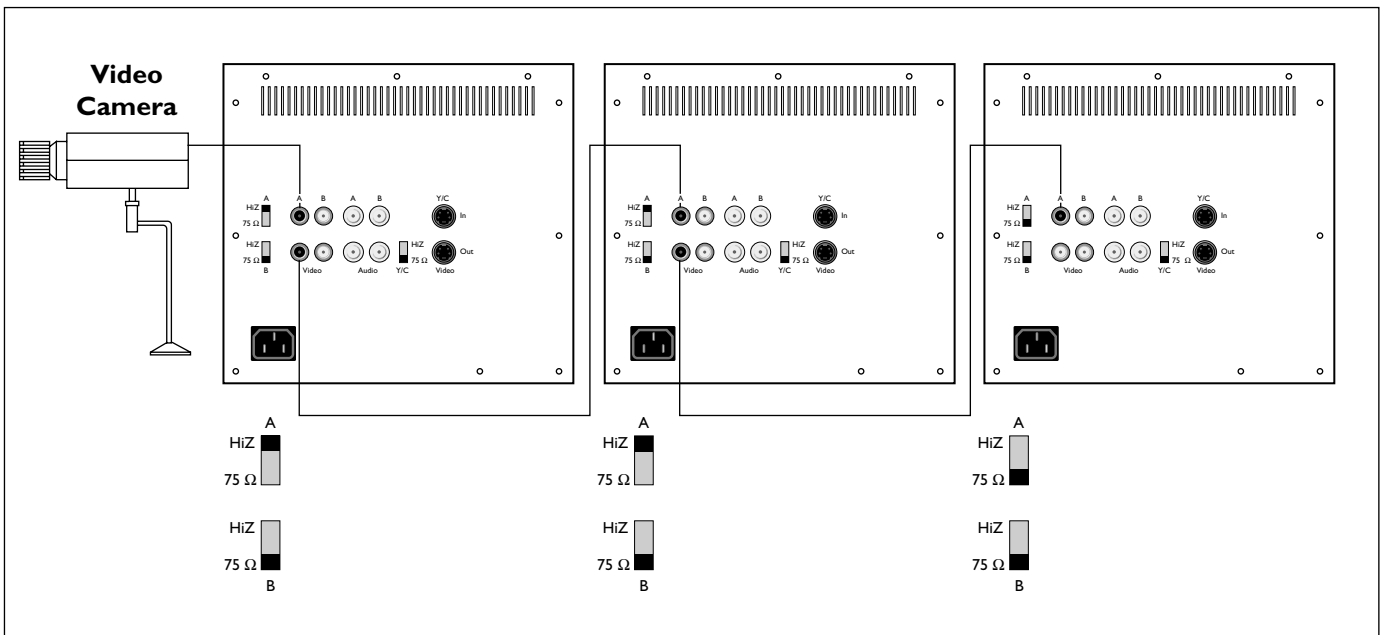


Fig 3b Connecting Multiple Monitors

## 2 INSTALLATION

### 2.1 Ventilation

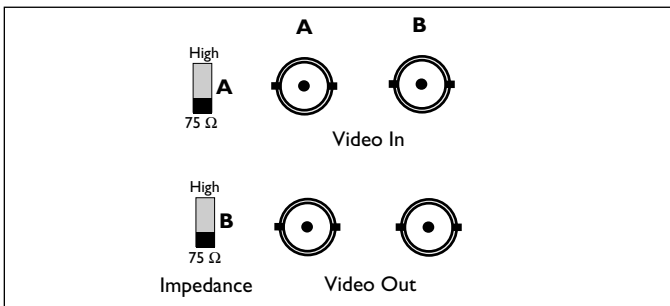
In order to prevent overheating, ensure that the ventilation openings on the monitor are not covered.

### 2.2 Power

Model No.	Rated Voltage	Voltage Range	Power at Rated Voltage	Sync Format
LTC 2914/91	120/230 VAC 50/60 Hz	90 to 264	75 W	PAL/ NTSC
LTC 2917/91	120/230 VAC 50/60 Hz	90 to 264	80 W	PAL/ NTSC
LTC 2919/90	120/230 VAC 50/60 Hz	90 to 264	90 W	PAL/ NTSC

The LTC 2914/91, LTC 2917/91, and LTC 2919/90 monitors are delivered with a 3-pole US style power cord and a 3-pole Euro style power cord. The US style power cord is used where 120 VAC, 60 Hz power is available, and the Euro style power cord is used where 230 VAC, 50 Hz power is available. The monitor end of the power cord plugs into mains input socket (Fig 1, Item 13) on the rear panel. The monitor automatically adjusts to either power input voltage. A power on/off switch is located on the front of the unit (Fig 1, Item 7).

### 2.3 Connecting Composite Video Signal to the Monitor



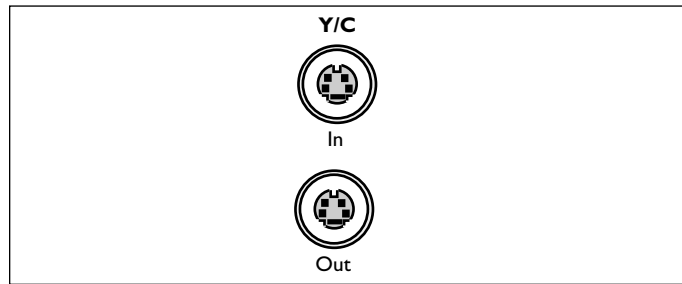
The four (4) BNC connectors (Fig 1, Item 9) located on the rear of the monitor are for composite video inputs and outputs.

**NOTE:** All video inputs are **passive loop-through**. In a single connection mode, the impedance must be set to 75 Ohm by sliding the impedance switch to the 75 Ω position. In the multiple connector mode (Fig 3a & 3b), the impedance switch is set to the HiZ position. This allows the video signal to be passed on to another monitor or device.

**CAUTION:** The last monitor or device in the chain which is receiving the video signal must be terminated, i.e., the impedance switch set to the 75 Ω position (Fig 3b).

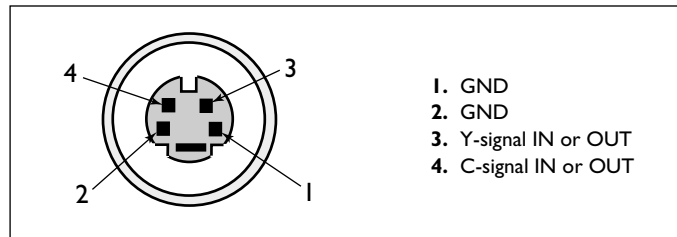
### 2.4 Connecting Y/C (S-video) Signal to the Monitor

There are two (2) mini-DIN type connectors (Fig 1, Item 12):

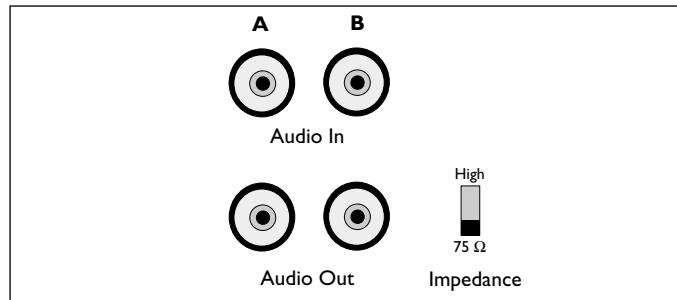


one for Y/C input (IN) and one for a loop-through Y/C output (OUT) to another device.

**NOTE:** The video input is **passive loop-through**.



### 2.5 Connecting Audio to the Monitor



There are two sets of monaural audio connectors (Fig 1, Item 10): one for audio input and the other for a loop-through output to another device.

**NOTE:** AUDIO A is associated with VIDEO A; and AUDIO B with both VIDEO B & VIDEO Y/C.

## 3 OPERATION

### 3.1 Front Panel Controls (Fig 1)

OSD (#1): Selects on-screen display (OSD); saves settings.

▲ (#2 up): Multifunction; First push – selects **brightness** function for adjustment; In **brightness adjust** mode – increases **brightness** level; Within OSD menu – moves the cursor upward.



▼ (#2 down): Multifunction; First push – selects **brightness** function for adjustment; In **brightness adjust** mode – decreases **brightness** level; Within OSD menu – moves the cursor downward.

◀ (#2 left): Multifunction; First push – selects **contrast** function for adjustment; In **contrast adjust** mode – decreases **contrast** level; Within OSD menu – moves the cursor to the left or decreases adjustment levels.

▶ (#2 right): Multifunction; First push – selects **contrast** function for adjustment; In **contrast adjust** mode – increases **contrast** level; Within OSD menu – moves the cursor to the right or increases adjustment levels.

A (#3): Selects the video input A to be displayed.

B (#4): Selects the video input B to be displayed.

Y/C (#5): Selects the video input Y/C (S-video) to be displayed.

SEQ (#6): Selects all three video inputs A, B, & Y/C (S-video) to be displayed in sequence. Displaying duration is set using the OSD menu (Dwell Time).

**NOTE:** All video inputs selected for **sequence** mode must be connected prior to applying power to the monitor.

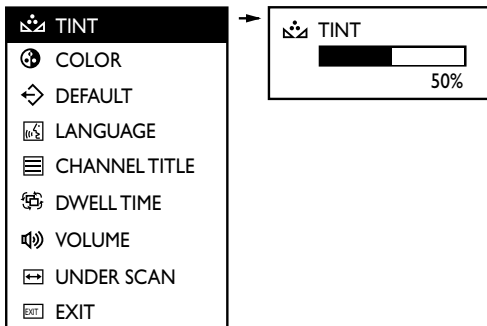
Ⓞ (#7): Press the switch to turn the monitor ON (the indicator will illuminate). Press the switch again to turn the monitor OFF.

### 3.2 On-screen Display (OSD) Menu

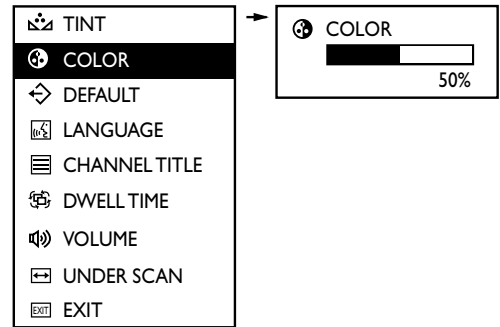
Press the OSD push button (Fig 1, Item 1) to obtain the following menu options:

**Tint:** Adjusts color level; for best results, adjust until skin color is natural. See the OSD **Tint** menu configuration below.

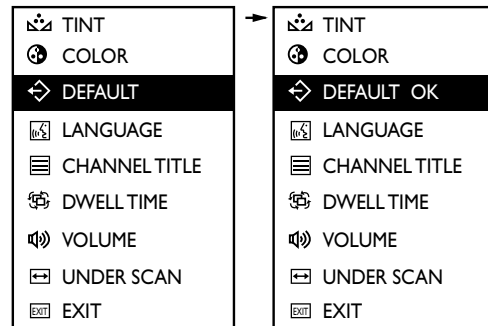
**NOTE:** Applicable to NTSC only; not available in PAL format.



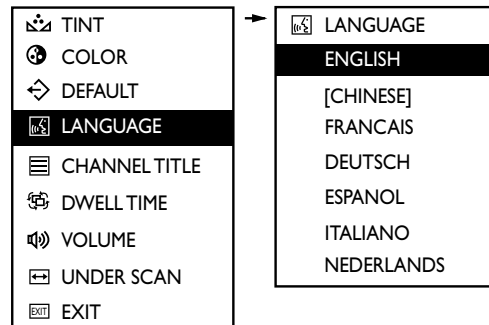
**Color:** Adjusts the overall color intensity of the screen display. See the OSD **Color** menu configuration below.



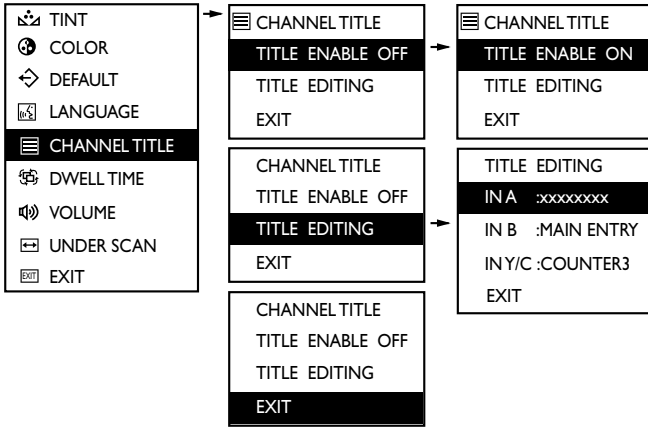
**Default:** Enables factory default settings for brightness, contrast, tint, color, title enable, dwell time, underscan, and volume level. See the OSD **Default** menu configuration below.



**Language:** Selects the language for the OSD text; available in English, Chinese, French, German, Spanish, Italian, and Dutch. See the OSD **Language** menu configuration below.

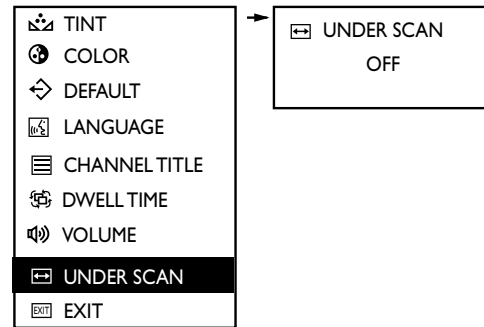


**Channel Title:** Allows selection and enabling of 8-character title per input channel. See the OSD **Channel Title** menu configuration below.

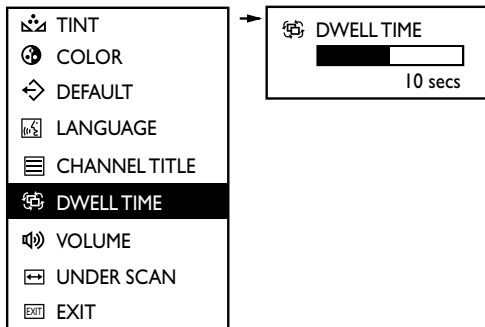


**Underscan:** Selects the underscan display size. The underscan option reduces the picture size so that the entire image is displayed on the screen. See the OSD **Underscan** menu configuration below.

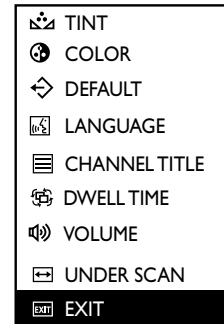
**NOTE:** Applicable to LTC 2917/91 and LTC 2919/90 only; not available in LTC 2914/91.



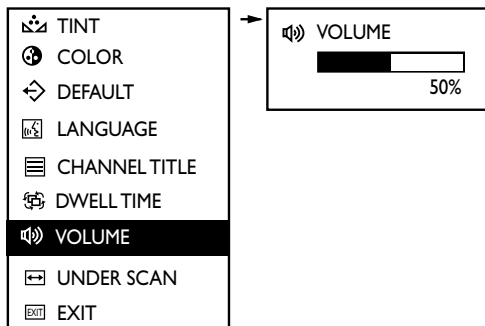
**Dwell Time:** Sets the duration in which input channels are displayed during the SEQ (sequence) mode. See the OSD **Dwell Time** menu configuration below.



**Exit:** Select to exit the current OSD menu; return to standard monitor display. See the OSD **Exit** menu below.



**Volume:** Adjusts the volume level for the audio inputs. See the OSD **Volume** menu configuration below.



**NOTE:** OSD menu will disappear from the display after 10 seconds if no selections or adjustments are made.

**NOTE:** Brightness and Contrast adjustments are made directly from the front panel using the cursor and adjustment control (▲, ▼, ◀ and ▶) button (Fig 2, Item 2).

## 4 SPECIFICATIONS

### 4.1 Electrical

#### Display Tube:

LTC 2914/91: 35.6 cm (14-in) measured diagonally, 90° deflection dot stripe pitch 0.22 mm.

LTC 2917/91: 44 cm (17-in) measured diagonally, 90° deflection dot stripe pitch 0.28 mm.

LTC 2919/90: 48.3 cm (19-in) measured diagonally, 90° deflection dot stripe pitch 0.27 mm.

#### Viewable Picture Area:

LTC 2914/91: 34 cm (13.4-in) measured diagonally.

LTC 2917/91: 41 cm (16-in) measured diagonally.

LTC 2919/90: 45.7 cm (18-in) measured diagonally.

#### Linearity:

**Horizontal:** 7%.

**Vertical:** 7%.

**Horizontal Resolution:** 700 TV lines (min).

#### Video Input:

**Composite Video:** 0.3 to 1.5 V<sub>p-p</sub>, sync negative. Manual switching from 75 Ω unbalanced to Hi-Z with loop-through operation via the impedance switch.

**Y/C:**

*Y-signal:* 0.7 V<sub>p-p</sub>,

*C-signal:* 0.3 V<sub>p-p</sub>. Manual switching from 75 Ω unbalanced to Hi-Z with loop-through operation via the impedance switch.

**Audio Input:** 1 V line level.

**Audio Output:** Loop-through line level, 1 W speaker.

## 4.2 Mechanical

#### Cabinet:

**Material:** Steel with plastic front.

**Finish:** Charcoal.

#### Dimensions:

LTC 2914/91: 356 W × 380 D × 333 H mm (14 × 15 × 13.1 in).

LTC 2917/91: 400 W × 406 D × 363 H mm (15.75 × 16 × 14.3 in).

LTC 2919/90: 441 W × 444 D × 413 H mm (17.4 × 17.5 × 16.25 in).

#### Weight:

LTC 2914/91: 13.2 kg (29 lb).

LTC 2917/91: 19 kg (41.8 lb).

LTC 2919/90: 21.8 kg (48 lb).

## 4.3 Environmental

#### Temperature:

**Operating:** 0°C to 40°C (32°F to 104°F),

**Storage:** -10°C to 50°C (14°F to 122°F).

**Humidity:** 10%–90%, noncondensing.

## 4.4 Agency Certifications

#### EMC:

**Immunity:** EN50130-4.

**Emission:** EN50081-1 1992, FCC Part 15, Class B.

Product complies with DHHS Rules 21 CFR applicable at the date of manufacture.

#### Safety:

**CE, LVD Requirement:** EN60950 1992.

**ETL:** ANSI/UL1950.

**cETL:** CAN/CSA\_C22.2, No. 950.

## 5 TROUBLESHOOTING GUIDE

**No Power Indicated:** The power plug may be loose or disconnected.

**Resolution:** Insert the power plug firmly into the socket.

**Power On, No Display:** (1) No video signal connected; (2) Video cable is disconnected.

**Resolution:** (1) Select and push correct video input button; (2) Check video cable for proper connection and correct accordingly.

**Power On, No Sound:** (1) Incorrect cable connection configuration; (2) Audio cable is disconnected; (3) Volume output is set too low.

**Resolution:** (1) Ensure that cable connection configuration is correct (see Section 2.5); (2) Connect audio cable firmly; (3) Adjust speaker volume via OSD menu.

**Display Jitter:** The monitor may be close to a device generating a strong magnetic field.

**Resolution:** Move the device away from the monitor until picture stabilizes.

**No Color, Incorrect Color, or Dark Color:** The picture control setting (e.g. Tint, Color, Brightness, or Contrast) may be set improperly.

**Resolution:** Reset each picture control setting to the mid-range level, or restore the factory DEFAULT setting in the OSD menu.

**Unnatural Color, Irregular Color, or Distorted Picture:** The monitor may be close to a speaker, magnet, or any other device generating a strong magnetic field.

**Resolution:** Move the device away from the monitor and discontinue power to the monitor. Wait at least 3 minutes, then restore power to the monitor.

**Picture Overexposure:** The video input signal is not terminated.

**Resolution:** Ensure that the impedance switch on the rear panel for that channel is set to the 75 Ω position, which properly terminates the signal.

**A Blank Display in Sequence Mode:** Upon power-up, the monitor *memorizes* the system configuration (i.e., the number or video inputs which are connected). If a video input is added after power-up, that signal will NOT be displayed in **sequence** mode.

**Resolution:** Turn off the monitor for a few seconds, then power up again. The additional signal should now be included in the **sequence** mode.

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