

DNR II SERIES DISPLAY 27 inch



Displays by Dotronix

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User's Manual

Publication No. 01071 Rev A

PRECAUTIONS =

This monitor contains circuits and components designed to meet specific performance and safety requirements. No component changes may be made without the written permission of the manufacturer.

To prevent electrical shock, do *not* attempt to disassemble the monitor. There are no user-serviceable parts inside. Servicing, if required, should be performed only by qualified service technicians familiar with the equipment and safety procedures. **Servicing by unauthorized personnel may be** *dangerous* and will void the warranty.

Do not use this monitor beyond its temperature and humidity range. This unit is designed for indoor use. Ambient temperature range must not be above 113°F or below 32°F. Avoid using this monitor when the humidity is either above 95% or less than 5%. Do not block the ventilation slots on the rear side of the monitor. Allow for normal ventilation.

Position the monitor to avoid direct sunlight on the picture tube. Generally, adjust the monitor for proper lighting and monitor position to minimize undesirable reflections.

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Specifications are subject to change due to technological progress.

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Dotronix Limited Warranty

Dotronix warrants that for one (1) year from date original purchase, it will, at its option, repair, replace or refund the purchase price of any product which it manufactured that proves defective in material or workmanship in normal use and service.

To obtain service under this Warranty, contact Dotronix Inc. at the address below, within one (1) year of original purchase, to receive a Return Material Authorization (RMA) number. Then ship the product believed to be defective, transportation prepaid, for inspection.

Dotronix shall not be responsible for unauthorized returns that do not list the RMA number and quantity returned on the outside of the shipping container (i.e. on packing list in plain view).

For products supplied without a frame (Less CRT and Printed Circuit Board Mounting), the buyer must inspect the products within ten (10) days of receipt. After ten (10) days have lapsed, there shall be no warranty coverage for broken or damaged parts, or misalignment (i.e. broken torque seals where used). The products will be packed to allow Buyer to test the unit within its packing carrier.

This Warranty applies only to goods manufactured by Dotronix Inc. Various component parts manufactured by others (such as cathode ray tubes, semi-conductors, and fuses) are covered by the separate warranty of their manufacturers. Where Dotronix, Inc. warranty differs, only the warranty of the original component part manufacturer is offered. Of course, the Dotronix warranty does not apply to CRT's that are scratched, broken, burned or have imperfections in any special coatings. It also does not apply to products which have been altered, damaged, abused, or subjected to misuse, or repaired by anyone other than an authorized Dotronix repair person.

These displays require DHHS traceability under sub-part E, Section 1002.40 of the Regulations for the Administration and Enforcement of the Radiation Control for Health and Safety Act of 1968. It is the customer's responsibility to maintain records that satisfy this requirement.

THE TERMS OF THIS WARRANTY CONSTITUTES THE BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST DOTRONIX. THERE IS NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. UNDER NO CIRCUMSTANCE SHALL DOTRONIX BE LIABLE FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES, OR IN ANY AMOUNT BEYOND THE REPLACEMENT COST OF THE ALLEGEDLY DEFECTIVE PART, REGARDLESS OF THE THEORY OF RECOVERY.

All products returned to Dotronix must include:

- 1. A tag or label on each unit with a description of the defect or reason for return, or identify each unit on the packing list by serial number and defect.
- 2. A packing list attached to the outside of the shipping container showing the Return Authorization Number (RMA) and the quantity returned.

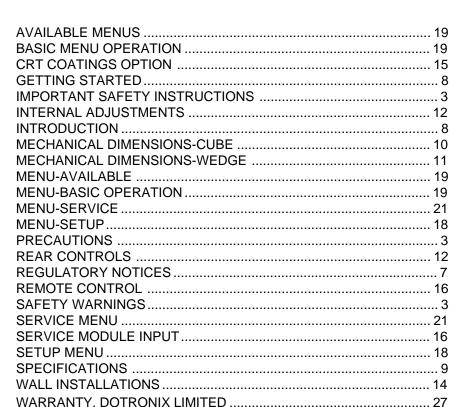
Products returned that are not identified in accordance with the above procedure will be refused and returned at Buyer's expense.

To obtain a Return Material Authorization (RMA) number contact:

DOTRONIX INC.

160 First Street S.E. • St. Paul • Minnesota • 55112-7894 Phone 651-633-1742 • FAX 651-633-1065

SAFETY WARNINGS





WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with 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 the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY TIPS

Refer to the "Important Safety Instructions" section of this operating guide for important safety considerations.

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE TV SYSTEM INSTALLER

This reminder is provided to call the cable TV system installer's attention to Article 820-40 of the National Electrical Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

IMPORTANT SAFETY INSTRUCTIONS

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this section of the operating guide can help you get many years of enjoyment and safe operation from your new product.

1. Read Instructions

Read all the safety and operating instructions before operating the product.

SAFETY WARNINGS

2. Follow Instructions

Follow all operating and use instructions.

3. Retain Instructions

Keep the safety and operating instructions for future reference.

4. Heed Warnings

Follow all warnings on the product and in the operating instructions.

5. Cleaning

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

6. Water and Moisture

Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

7. Accessories

Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

8. Transporting Product

Move product and cart combinations with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



9. Attachments

PORTABLE CART WARNING

Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation

Slots and openings in the cabinet must not be blocked or covered. They are provided for ventilation, to ensure reliable operation, and to protect from overheating. Never block the openings by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

11. Power Source

Operate this product only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.

SERVICE MENU

- * PIP module option not supplied.
- Underlined commands are used most often.

Should further adjustment or alignment be necessary contact DOTRONIX, INC. customer service.

SERVICE MENU =

37 PIF VCO The range is 0 to 127. ITEMS 38 THROUGH 52 VARIES WITH CRT. 38 Red CUT B & W tracking adjustment. The range is 0 to 255. Default setting is 20. B & W tracking adjustment. The range is 0 to 255. 39 Grn CUT Default setting is 0. 40 Blue CUT B & W tracking adjustment. The range is 0 to 255. Default setting is 28. 41 Grn GAIN B & W tracking adjustment. The range is 0 to 255. Default setting is 45. B & W tracking adjustment. The range is 0 to 254. 42 Blue GAIN Default setting is 70. 43 In LEV* (Input Level) The range is 0 to 15. Default setting is 9. 44 St Vco* (Stereo Voltage Controlled Oscillator) The range is 0 to 63. Default setting is 10 to 39. (Second Audio Program Voltage Controlled Oscillator) 45 SapVco* The range is 0 to 15. Default setting is 3 to 9. (Second Audio Program Low Pass Filter) The range is 0 46 SapLpf* to 15. Default setting is 7 to 9. 47 St Lpf* (Stereo Low Pass Filter) The range is from 0 to 63. Default setting is 18 to 35. 48 Spectr* This is high frequency separation. The range is 0 to 63. Default setting is 38 to 63. 49 WideBa* This is low frequency separation. The range is 0 to 63. Default setting is 28 to 36. 50 Seg Permt SEQ on-off. 0 is off, 1 is on. 51 Field Two Effects captioning. Range is 0-1. 0 is off, 1 is on. Set to 1. 52 Set to 0.

SAFETY WARNINGS

12. Line-Cord Polarization

This product is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). As a safety feature, this plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still fails to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

Alternate Warnings-This product is equipped with a three-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.

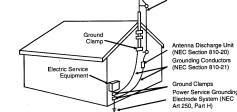
13. Power-Cord Protection

Route power supply cords so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

14. Outdoor Antenna Grounding

If an outdoor antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

EXAMPLE OF GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE INSTRUCTIONS



15. Lightening

NEC - NATIONAL ELECTRICAL CODE

For added protection for this product (receiver) during a lightening storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightening and power-line surges.

16. Power Lines

An outside antenna 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 outside

SAFETY WARNINGS

antenna system, take extreme care to keep from touching such power lines or circuits, as contact with them might be fatal.

17. Overloading

Do not overload wall outlets and extension cords, as this can result in risk of fire or electric shock.

18. Objects and Liquid Entry

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.

19. Servicing

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service

Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. If the power supply cord or plug is damaged.
- **b.** If liquid has been spilled, or objects have fallen, into 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 operating instructions; improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or the cabinet has been damaged.
- f. If the product exhibits a distinct change in performance.

21. Replacement Parts

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitution may result in fire, electric shock, or other hazards.

22. Safety Check

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.

23. Wall or Ceiling Mount

Mount the product to a wall or ceiling only as recommended by the manufacturer.

24. Heat

Keep the product away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

SERVICE MENU

23 Func Prev	(Function Preview) The range is 0 to 1. 0 is off, and 1 is
	on. Set to 1 to suppress channel prev screen and enable user function menu with some pay per view systems.
	user function menu with some pay per view systems.
	Not used.

24 Trap 3.58	This is the 3.58 MHz trap. 0 is off, 1 is on. Set to 0. For
	normal monitor operation set to 1, if Y/C is used or the
	chassis has a comb filter.

25 Rf Bpf	(Rf Bandpass) Sets adjustment range of the customer
	control for brightness. The range is 0 to 63. Default
	setting is 30.

26 RF Brt	(RF Brightness) This sets the adjustment range of the	ne
	customer control for brightness in the AUX Mode. The	he
	range is from 0 to 63. Default setting is 30.	

27 Aux Brt	(Auxiliary Brightness) This sets the adjustment range of
	the customer control for brightness in the AUX Mode.
	The range is from 0 to 63. Default setting is 30.

28 VPHASE	(Vertical Phase) The range is from 0 to 7. Default
	setting is 0.

29 HPHASE	(Horizontal Phase) The range is 0 to 31. Default settin
	is18.

30 Snd ATT	The range is 0 to 63. Default setting is 46.
31 Snd Bal	The range is 0 to 63. Default setting is 63.

32 RF Agc	The range is from 0 to 63. Default setting is 48, Tune in
	the weakest channel and adjust for a snow free picture.

33 Horz Afc	There are two settings 0 and 1. Default setting is 0.

34 Wht Pk	(White PK Level) The range is 0 to 1. Default setting is 0.
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35 MaxCon	(Maximum Contrast) This sets the adjustment range of
	the customer control for contrast. The range is from 0 to
	63. Default setting is 63.

36 60Hz Sw The range is 0 to 1. Sync stability item. 0 is off. Default setting is 0.

SERVICE MENU

12 Hos Mode Not used. Leave default set to 0, which is off.

13 Chan Lock Used in conjunction with #11 Start Channel/Volume. The range is 0 to 1. 0 is off, and 1 is on. Use Start channel to lock on a particular channel. When item is active, AUTO PROGRAM and CHANNEL ADD DEFEAT are not active.

14 Not Used

15 Ghost Ch

The range is 0 to 1. 0 is off, 1 is on. In On Mode, channel number will stay on screen at all times, unless captions are present. The number moves slightly to prevent damage to screen. When captions are on, the "Ghost Channel" is not present.

16 Scan Mode

The range is 0 to 3. Sets turn-off when channel scan buttons are being used. In 0 Mode, scan Off is inoperative. In position 1, set will turn off between auxiliary and lowest channel. In position 2, set will turn off between Aux and FM. In position 3, set will turn off after FM station scan.

17 Text Mode Turns Text Mode on or off in the users menu. The range is 0 to 1. 0 is off, 1 is on. In On Mode, user can call up Text Mode. Set to 0 unless text is being used.

18 Sleep Timer

Enable sleep timer feature. The range is 0 to 1, 0 is off, 1 is on. Set to 1.

19 Alarm

Enables alarm feature. The range is 0 to 1. 0 is off, 1 is on. In Off Mode, alarm feature is not available. Set to 1.

20 Ch Override

The range is 0 to 1. 0 is off, 1 is on. In On Mode, display will work normally. Generally set to Off so it can be controlled by entertainment unit. In Off mode, Auto Program, Channel Add/Delete and Channel Lock do not function.

21 Old OCV

(On Commanl Video) The range is 0 to 1. 0 is off, 1 is on. Not used.

22 Capt Lock (Caption Lock) Two settings, 0 and 1. 0 is off, 1 is on. Set to 1 to restore previous On/Off state after monitor is initially turned on.

REGULATORY NOTICES =

DHHS: This product complies with applicable DHHS Standards under the Radiation Control for Health and Safety Act of 1968.

X-Ray Precaution: This product includes critical electrical parts essential for X-radiation protection. Under *no* circumstances should the operator attempt to disassemble or modify the display.

WARNING: Changes or modifications not expressly approved by the party responsible for compliance with the FCC's rules (The FCC "Grantee") could void the user's authority to operate this equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, following Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with this operation manual, may cause interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his or her own expense.

If necessary, the user should consult 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.

It is necessary to use shielded interconnect cable with this monitor to insure compliance with FCC Class A limits for radio frequency emissions.

INTRODUCTION

Congratulations on your purchase of a new DNR II Series Display. The DNR Il Series is available in a 27 inch version in an industrial metal cabinet.

This manual has been prepared to act as a guide in the operation of your monitor. Please read the following operating instructions carefully before using your monitor so that you are familiar with all of its features and capabilities. All precautions and safety warnings should be read and strictly observed.

UNPACKING THE MONITOR

To unpack your monitor:

- 1. Untape and open the top flaps of the packing carton. The monitor will be cushioned by foam inserts. The back of the monitor will be facing up.
- 2. With the top open, carefully roll the monitor carton so the top of the box is positioned down. Remove the monitor by lifting the box up and off the monitor and the inserts. Caution: A firm hold on the monitor must be constantly maintained while it is being removed from its packing carton.
- 3. Inspect the monitor thoroughly for any damage that might have occurred during shipping.
- 4. If any damage to the monitor is found, report it immediately to your shipping carrier.

DO NOT RETURN DAMAGED MERCHANDISE TO THE MANUFACTURER UNTIL AN APPROPRIATE CLAIM HAS BEEN FILED WITH THE CARRIER AND A RETURN MATERIAL AUTHORIZATION NUMBER (RMA) HAS BEEN RECEIVED FROM THE MANUFACTURER.

GETTING STARTED

- 1. Plug the power cord into a wall receptacle or power strip that will accept this type of plug.
- 2. Attach an input/output video cable (not included) from the NTSC VIDEO BNC OR RF-NTSC CONNECTOR TYPE F in the rear panel of the monitor to a compatible connector on your video equipment.
- 3. See remote control for specific operation. (page 17)

Should further adjustment or alignment be necessary contact DOTRONIX. INC. customer service.

SERVICE MENU

03 Pwr Man

(Power Manage) Range is 0 to 7. When set to 0, set works normally. One to seven is length of time (in hours) set will operate if not attended. When set nears turn off time an on screen message appears telling you to press any key to resume normal viewing.

04 V Pos

Moves the On Screen Displays vertically. The range is from 0 to 25. Default setting is 5.

05 Horz Pos

Moves the On Screen Displays horizontally. The range is from 1 to 15. Default setting is 9.

06 Band/AFC

There are eight positions. 0 is Broadcast fixed, 1 is CATV afc,2 is HRC afc, 3 is ICC afc, 4 is Broadcast afc, 5 is CATV fixed, 6 is HRC fixed, 7 is ICC fixed, Band is automatically set when AUTO PROGRAM is used.

07 Min Vol

Sets minimum volume level provided to the speaker. The range is 0 to 63. When item is set to 0, user has full adjustment capability. Allows adjustment to minimum volume leve possible. Set to 0 or the desired minimum volume level. No internal speakers.

08 Max Vol

Sets the maximum volume level provided to the speaker. The range is 0 to 63. When item is set to 63, user has full adjustment capability. Allows adjustment to maximum level. Set to 63 or the desired maximum volume level. No internal speakers.

09 AC ON

There are two positions; 0 is off and 1 is AC On. In the on position the set will turn on and off when AC Power is applied. Set will not respond to ON/OFF commands from either remote of control panel and Sleep Timer will not function.

10 Key Defeat Disables unmarked menu buttons on display control panel. The range is 0 to 1. 0 is off, 1 is on. Set to 1, which is on, to turn the keys off.

11 Strt Ch/Vol Determines the channel and the volume level that is selected automatically each time the display is turned on. The range is 0 to 255. 0 is Aux position and 255 if off. Use ADJUST to change the channel number. Start volume is to be set before setting the start channel. Use volume control to set volume level.

SERVICE MENU

Accessing the Service Menu can only be accomplished using the remote. Press and hold the Menu until the User Menu display disappears, then press 9876, then ENTER to access Service Menu.

The black bar at the top indicates the part number of the software in the set. The date on the left of the black bar at the bottom indicates the date the module went through the factory, and at the right is a number indicating that the module has been tested.

When the Service Menu appears, it will always appear on the fifth item HORIZ POS. Use the SELECT UP/DOWN keys to toggle through all of the adjustments. Use ADJUST to make a change to the selected item.



(Example)

O1 F Mode

(Factory Mode) Use the Select UP and DOWN keys to select item #01, which is the first item in the Service Menu, the Factory Mode. This item is used by the factory when the module is being tested. It has 3 positions, 0, 1 and 2. In the field, this item should always be left "OFF". 0 is "Off"!

When the Factory Mode is Off, only the first twenty items in the Service Menu can be brought up. When the Factory Mode is set to 1, all 52 menu items will be available. In Factory Mode 2 position, all 52 menu items will be available. They will appear on the screen one at a time, at the top left of the screen.

When the Factory Mode is On, the AC power on feature is always enabled regardless of the setting of "AC ON" in the Service Menu. The set will automatically come on when AC is applied.

The hand control must be used to reenter the Service Menu to turn the Factory Mode off. The factory mode can also be turned off by setting the clock, or running the Auto Program feature in the customer Set Up menu.

02 Preset Px

This is used to store the customer menu adjustments in the nonvolatile memory of the EAROM. The selections are Custom/Preset-Store. Settings for Contrast, Brightness, Color and Tint are stored in this manner. 0 is custom and 1 is Preset stored.

SPECIFICATIONS

Horizontal Scan Rate: 15.75 kHz ± 500 Hz

Vertical Sweep Rate: 60 Hz ± 5% Video Bandwidth: 6 MHz (-3db)

CRT Size: 27-inch Resolution: 500 + lines

NTSC Video input through 75 ohm BNC connector

RF-NTSC connector type F

Front Controls: Brightness w/Remote Control Contrast

Color Sharpness

Tint

Picture Preference

Rear Controls: Focus, Screen

Internal Controls: Horizontal Size, Vertical Size

Power requirements: 120 VAC ± 10%, 60 Hz

Power consumption: 100 W nominal 27" model

Operating Temperature: 0°C to +45°C

(+32°F to +113°F)

Storage Temperature: (-17°C to +70°C)

(0°F to +158°F)

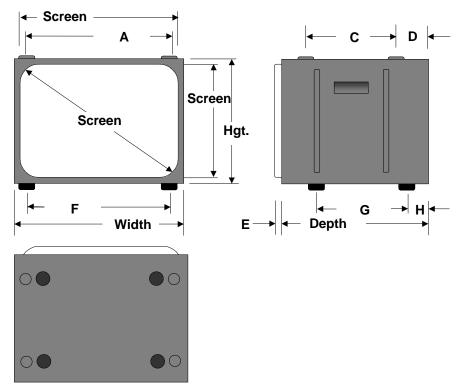
Cooling: Convection cooling will be adequate for most installations. Internal cabinet temperature *must not* exceed 55°C (131°F).

Stackability: Maximum recommended size is six units by six units without additional support.

Agency Approvals: UL, CUL, FCC Class A

MECHANICAL DIMENSIONS-CUBE

SETUP MENU ====



DIMENSION		27 INCH CUBE
HEIGHT		19.1 (486)
WIDTH-FRONT		24.1 (613)
WIDTH-REAR		24.1 (613)
DEPTH		18.4 (467)
VIEWABLE	DIAG.	26.6 (675)
AREA	HORIZ.	21.3 (540)
	VERT.	15.9 (405)
STACKING	А	22.0 (559)
DIMPLE	С	12.0 (305)
LOCATIONS	D	3.4 (87)
CRT PROJECTION E		2.5 (63.5)
FEET (IF USED)	F	20.5 (520.7)
	G	12.0 (305)
	Н	3.4 (87)
WEIGHT		90 LBS. (41 kg)
SHIPPING		100 LBS. (45 kg)

MECHANICAL DIMENSIONS UNIT = INCH (MM)

— 02101 III2110 —			
MENU OPTION	FUNCTION OF MENU OPTION		
AUTO PROGRAM	Finds all active channels and stores them in the monitor's memory for use by the CHANNEL up/down keys.		
ADD/DEL/BLNK	Edits the channel numbers found by the Auto Program feature to create you own list of favorite channels when using the CHANNEL up/ down keys. Will default to lowest channel if power is interupted. Note: The AUX channel code (used for external NTSC VIDEO INPUT) is 999 and ENTER.		
CHANNEL LABELS	Assigns a network/station label, name or call letters to specified channels. For example, if you choose the label ABC for channel 13, then ABC will appear in theChannel/Time display whenever channel 13 is selected.		
CLOCK SET	Used for setting the monitor's internal clock to the correct time.		
TIMER SETUP	Sets the monitor's Sleep Timer and On/Off Timer features.		
PARENTAL CTL	Use this feature to block viewing of any undesired channels, including the Video input source.		
CAPTION/TEXT	Displays closed captioning or informational text when available on the selected channel. Options are: Off, Caption 1, Caption 2, Caption 3, Caption 4, Text 1, Text 2, Text 3, and Text 4. (At present, few programs or video tapes offer text captioning for any other option than Caption 1.)		
AUDIO MODE	No internal speakers supplied. Stereo Directs the sound to the left and right speakers as supplied by the program source (broadcast TV/VCR, etc.)		
	Audio Mode options are not available while the selected viewing source is Video. Audio from an auxiliary input source is assumed to be stereo.		

AVAILABLE MENUS

Your monitor is menu operated. In other words, adjustments to the monitor are made via a list of choices which appear on your monitor screen. To view these menus, press the MENU key on the remote control. Press MENU repeatedly to toggle through the available menus.

Setup Menu Auto Program Add/Del/Blnk Ch. Labels Timer Setup Clock Set Caption/Text

Video
Menu

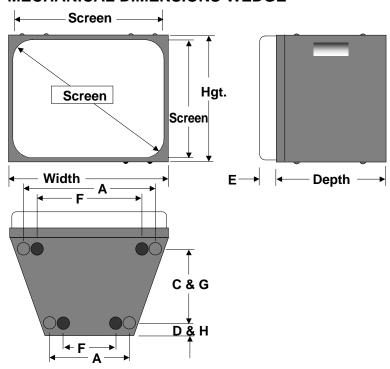
Contrast
Brightness
Color
Tint
Sharpness
Picture Pref

BASIC MENU OPERATION

The remote control buttons which are most frequently used for menu operations are shown here. In addition to these buttons, the number buttons may also be used where a number value is necessary, such as setting the time on the monitor.

Menu Option	Function		
Auto Program	Finds and stores active channels with the CHANNEL Up/Down arrows.		
Add/Del/Blnk	Creates a list of favorite channels to use with CHANNEL Up/		
Channel Labels	Assigns a network/station label, or call letters to channels. (Example: If you assign ABC to channel 13, then ABC will		
Timer Setup	appear when you select channel 13. Note: The clock in the monitor must be set before you can use the timers.		
Clock Set Caption/Text	 Sets the Sleep Timer and On/Off Timer. The Sleep Timer programs the monitor to turn off after a period from 15 minutes up to 4 hours. The On/Off Timer programs the monitor to turn on and off at specific times. Sets the monitor's clock to the current time. Displays closed captions or text when available on the selected channel. Options are Off, Caption 1, Caption 2, 		
	Caption 3, Caption 4, Text 1, Text 2, Text 3, and Text 4.		

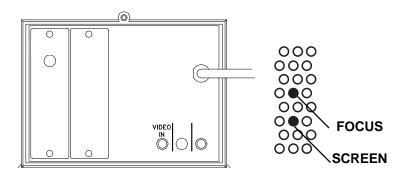
MECHANICAL DIMENSIONS-WEDGE



DIMENSION	27 INCH WEDGE
HEIGHT	19.1 (486)
WIDTH-FRONT	24.1(613)
WIDTH-REAR	13.1(333)
DEPTH	16.4(418)
VIEWABLE DIAG.	26.6 (675)
AREA HORIZ.	21.3 (540)
VERT.	15.9 (405)
STACKING A(FRONT)	20.0(508)
DIMPLE A(REAR)	12.7(322)
LOCATIONS C	10.0(254)
D	3.4(87)
CRT PROJECTION E	2.5 (64)
FEET	18.5(470)
(IF USED) F(FRONT)	11.2(284)
F(REAR)	10.0 (254)
) Ġ	3.4 (87)
WEIGHT H	90 LBS. (41 kg)
SHIPPING	100 LBS. (45 kg)

MECHANICAL DIMENSIONS UNIT = INCH (MM)

REAR CONTROLS DNR27



* No internal speakers provided.

NTSC VIDEO INPUT THROUGH 75 OHM BNC CONNECTOR

RF-NTSC CONNECTOR TYPE F

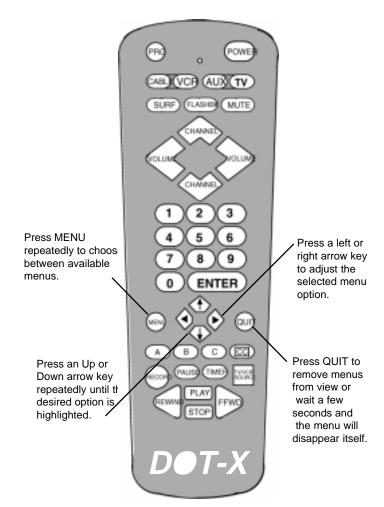
SCREEN DRIVE Adjusts thru vent holes.

FOCUS CONTROL Adjusts thru vent holes.

REMOTE CONTROL

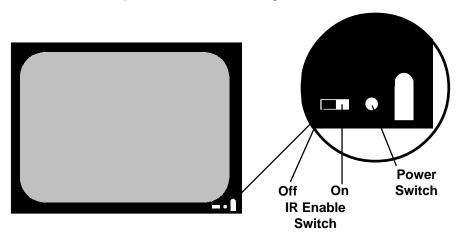
The following has been prepared to act as a guide in the operation of your REMOTE CONTROL input equipped monitors. Please read the following operating instructions carefully so that you are familiar with all of its features and capabilities before using your service module. All precautions and safety warnings should be read and strictly observed.

REMOTE CONTROL



SERVICE MODULE INPUT W/ REMOTE CONTROL

Service Module input is in the front lower right bottom of bezel.



Note: Manual power switch is inactive with HARC option installed.

CUSTOMER MENU

BRIGHTNESS Adjusts the brightness level of black areas in the

picture.

CONTRAST Adjusts the overall contrast and color level of the

picture.

COLOR Adjusts the intensity of the colors in the picture.

SHARPNESS Adjusts the definition of the object edges for best

picture quality.

TINT Adjusts the color of the flesh tones to more red or

more green.

PICTURE PREF Returns the display settings to their original factory

settings.

INTERNAL ADJUSTMENTS

WARNING

POTENTIAL SHOCK HAZARD IS PRESENT WHEN ADJUSTING THE FOLLOWING CONTROLS, WHICH REQUIRE THE REMOVAL OF THE REAR COVER.

VERTICAL SIZE: Adjusts the vertical size of the display to fill the

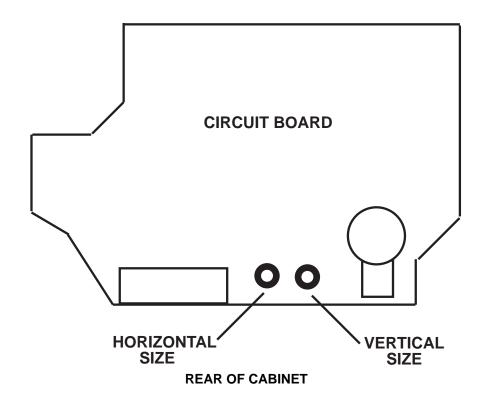
CRT Screen.

HORIZONTAL SIZE: Adjusts the horizontal size of the display to fill the

CRT Screen.

Warning!

The adjustment of these controls should be made only by qualified Service Personnel.



WALL INSTALLATIONS

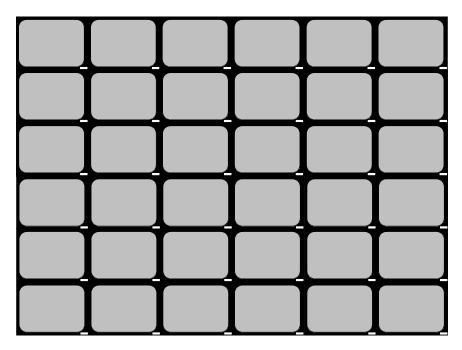
Cooling: Convection cooling will be adequate for most installa-

tions. Internal cabinet temperature must not exceed 55°C

(131°F).

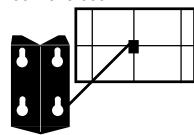
Stackability: Each monitor is enclosed in a heavy duty industrial metal

cabinet. Maximum recommended stack size is six units by six units without additional support.



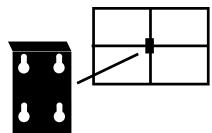
MOUNTING PLATE/ TIE BRACKET/WEDGE

Order Part Number 13027526-009



MOUNTING PLATE/ TIE BRACKET/CUBE

Order Part Number 13027526-007



CRT COATINGS OPTION =

As an option a factory installed anti-glare coating may have been applied to the CRT surface of your monitor. Due to static electricity, the monitor screen will attract dust and under normal use will acquire fingerprints. Recognizing that most people will touch the screen sooner or later causing these fingerprints, we recommend you implement a simple cleaning program. The anti-glare coating on your monitor is very durable and will stand up to routine cleaning. To prevent damage when cleaning, use a non-abrasive household glass cleaner to remove smudges and fingerprints. Do *not* use cleaners, papers, or cloths which contain abbrasives that may damage the coating. Highly abrasive materials, scouring pads or acid solutions *should not be used.* Care must be taken when handling and cleaning this surface.

This monitor was inspected prior to shipment and found to meet Dotronix CRT coatings standard. The Dotronix warranty does not apply to CRT's that are scratched, or have imperfections in any special coatings.

