

ADJUSTMENT PROCEDURES

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1. Application

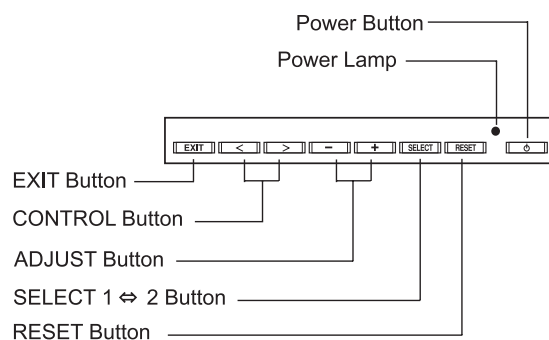
This adjustment specification shall be applied to the adjustment of the LCD1560NX (Model No. NL2501).






2. Default setting

Item		Condition
Power Supply		AC100V~240V
Input Freq.		1024×768@75Hz
OSM SETTING	BRIGHTNESS	100%
	CONTRAST	50%
	Color Temp.	NATIVE
	OSM TRUN OFF	30 sec.
	OSM LOOK OUT	NO
	Resolution notifier	ON
	OFF TIMER	OFF
	OSD/OSM SETTING	OSM
	URL SETTING	WWW.NECMITSUBISHI.COM
	HOT KEY	OFF (A ver) / ON (B ver)
	LANGUAGE	ENGLISH

3. Basic operation

3.1 Front control panel layout



	EXIT Button Exits the OSM controls. Exits to the OSM main menu.
	CONTROL Button Moves the highlighted area left/right to select control menus. Moves the highlighted area up/down to select one of the controls.
	ADJUST Button Moves the bar left/right to increase or decrease the adjustment.
	SELECT 1 ⇄ 2 Button Active Auto Adjust function. Enter the OSM controls. Enter the OSM sub menu.
	RESET Button Resets the highlighted control menu to the factory setting.

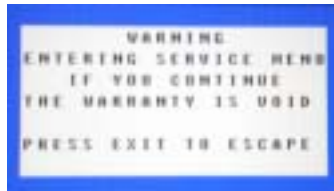
3.2 Special key operation

<Factory mode>

- 1) Open the information tab [DISPLAY MODE] of the OSM menu.



- 2) Simultaneously press the three keys of < (left), > (right), and RESET.
- 3) When a message of WARNING appears, press the SELECT button to enter the factory mode.



- 4) Press the EXIT button to close the factory mode.

<Aging mode>

- 1) Make the setting not to receive input signals.
- 2) Simultaneously press the three keys of (+), (-), and RESET.



- 3) Using the < (left) and > (right) buttons, it becomes possible to changeover the screen color (white ⇔ red ⇔ green ⇔ blue).
- 4) Using the (+) and (-) buttons, it becomes possible to change the brightness of each color.
- 5) To close the aging mode, receive any signal to turn off the power supply.

4. Adjustment

4.1 Measuring instruments, jigs, and tools

The measuring instruments, jigs, and tools required at the time of the adjustment of the unit to be adjusted shall be as specified below.

- a. A signal generator that can generate an output of signal timing produced by the adjusted (*) VG-819 or specified in [4. Setting method for the VG-819.] In this case, however, this signal generator shall be capable of displaying all white and all black as a screen display pattern.

* The word “adjusted” shall mean that the amplitude of each signal R, G, B, which is output from the signal generator, is maintained at $0.7V_{p-p} \pm 0.05V$ when a load of 75Ω is connected.

4.2 Power-supply voltage

INPUT : 100Vac ~ 240Vac

4.3 Closure of the power circuit

- 1) Connect the suitable cable of the VG-819 according to the setting mode.
- 2) Turn on the Power switch of the VG-819.
- 3) Connect the AC power cable to the unit being adjusted.
- 4) Turn on the Vacation switch of the unit being adjusted (seesaw switch located on the right side of the unit).
- 5) Turn on the Power switch of the unit being adjusted.
- 6) After the completion of signal discrimination, the LED is turned green.

4.4 Bias and gain control

- 1) Enter an input signal of 1024×768 (75Hz), in 16-gray gradation.
- 2) Enter the factory mode according to “3.2 Specific key operation.”
- 3) Press the SELECT button several times to display the [AUTO CONTRAST] adjust menu.

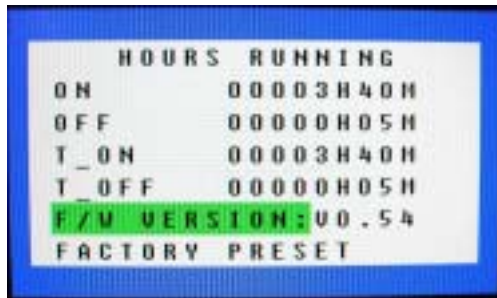


- 4) Pressing the < (left) and > (right) buttons, adjust the cursor to [AUTO CONTRAST]. When the (+) key or the (-) key is pressed, adjustment of the bias and the gain is carried out.
- 5) When adjustments have been finished, press the EXIT key to close the factory mode.

5. VG-819 setting values

Signal		VG-819				
Mode		1024×768 (75Hz)				
H	DOT CLOCK [MHz]	78.75				
	TOTAL [DOT]	1312				
	DISP [DOT]	1024				
	SYNC PULSE [DOT]	96				
	BACK [DOT]	176				
	HDstrat [DOT]	0				
	HDwidth [DOT]	0				
V	INTERLACE	NON				
	TOTAL [H]	800				
	DISP [H]	768				
	SYNC PULSE [H]	3				
	BACK PORCH [H]	28				
	EQPfp [H]	0				
	EQPbp [H]	0				
	SERRATION [H]	OFF				
	EDP [H]	OFF				
	VDs [H]	0				
	VBf [H]	0				
OUTPUT	OUTPUT MODE	ANALOG				
	NRZ/RZ	NRZ				
	CV					
	HS	POS				
	VS	POS				
	CS	NEG				
	HD	NEG				
	VD	NEG				
	RGB	POS				
	HT	POS				
	C	NEG				
	VIDEO	0.70V				
	Set-up	0.00V				
	Sync	0.30V				
PAT SEL		GRAY				
CHARA PATTERN	Format	1				
	Code	82				
	Font	16*16				
	Cell	16*16				
GRAY	Direction:0	L0:0 L1:17 L2:34 L3:51 L4:68 L5:85 L6:102 L7:127 L8:143 L9:159 LA:175 LB:191 LC:207 LD:223 LE:239 LF:255				

6. Explanations of the factory mode



ON: Accumulated time during the reception of input signals (LED: green)

OFF: Accumulated time in the power-saving mode (LED: amber)

* The above-mentioned accumulated time (hours running) is reset when FACTORY PRESET or the RESET + "<" ">" keys is pushed during a display is executed.

T_ON: Total accumulated time during the reception of input signals (LED: green)

T_OFF: Total accumulated time in the power-saving mode (LED: amber)

* The above-mentioned accumulated time (hours running) is not reset even when FACTORY PRESET is executed.

F/W VERSION: Firmware version

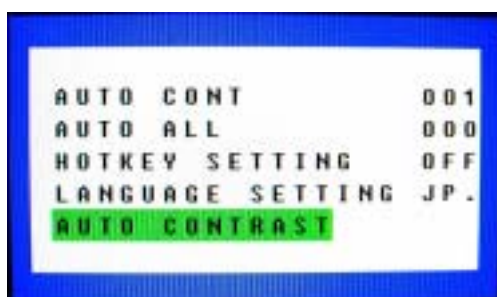
FACTORY PRESET: All data are reset to the initial values.



It is possible to adjust the gain values of R, G, B, respectively.



It is possible to adjust the offset values of R, G, B, respectively.



AUTO CONT: No. of auto-contrast control trials conducted by the user

AUTO ALL: No. of auto-adjustment trials conducted by the user

HOTKEY SETTING: Set at ON (Europe version) for shipment

Set at OFF (Japan version and North America version) for shipment

LANGUAGE SETTING: Set at EN. (Europe and North America version) for shipment

Set at JP. (Japan version)

AUTO CONTRAST: Auto-adjustments for the gain and the bias



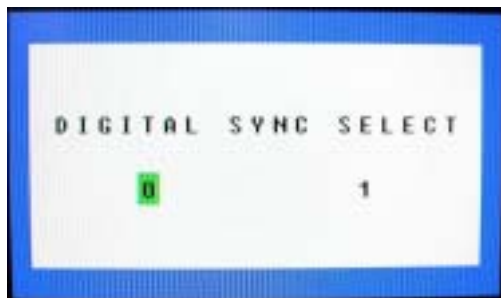
It is possible to change the display of OSD adjusting values.
 0: Adjusting value displayed in percentage: Setting for shipment
 1: Adjusting value displayed in a numeral: (Debug)



The OSD/OSM display is changed over for the OSD menu.
 0: OSM (Setting for shipment)
 1: OSD



Display or no display of URL (Internet address)
 0: Not displayed (for Japan)
 1: Displayed (WWW.NECMITSUBISHI.COM): Setting for shipment (for North America and Europe version)
 2: Displayed (WWW.NEC-MITSUBISHI.COM): Debug



This menu is not used.



It is possible to adjust the R, G, B values for each color temperature.