Model KD-HD1080P

HD Leeza

Key Digital® Video Processor

Quick Setup Guide

Have a question or a technical issue with your HD Leeza set-up?

- Call the Key Digital® HD Leeza Hotline at: 866-439-8988 or 203-798-7187

- E-mail the Key Digital® HD Leeza expert at: samuel@keydigital.com

- Check the Key Digital® web site for the latest version of the complete HD Leeza Users Manual at: www.keydigital.com under *Literature>User Manuals>HD Leeza*

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HD Leeza Quick Setup Guide

SETTING UP YOUR KEY DIGITAL® HD LEEZA (HDL)

IT'S AS EASY AS 1, 2, 3, 4, 5,...

1. **CONNECT TO AC POWER WITH SUPPLIED CORD**

2. **CONNECT HD LEEZA TO YOUR DISPLAY**

3. **BRING UP HD LEEZA'S ON-SCREEN DISPLAY (OSD), AND CONFIGURE HD LEEZA TO MATCH THE OPTIMAL RESOLUTION OF YOUR DISPLAY**

4. **ADJUST HD LEEZA'S VIDEO PROCESSING SETTINGS TO YOUR INDIVIDUAL PREFERENCES.**

5. **NOW CONNECT OTHER VIDEO SOURCES TO THE INPUTS ON THE BACK OF THE HD LEEZA**

HD LEEZA (HDL) QUICK SET-UP

1. CONNECT TO AC POWER WITH SUPPLIED CORD

DVI-D / HDCP or HDMI

Component (YPbPr) or RGBHV (VGA)
Y = G
Pb = B
Pr = R
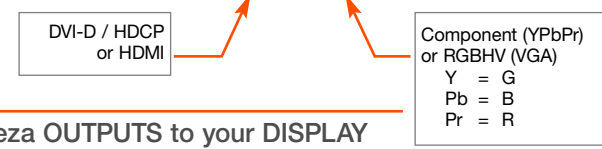
HD Leeza OUTPUTS to your DISPLAY

2. CONNECT HD LEEZA TO YOUR DISPLAY

2.1   To connect the HD Leeza(HDL) OUTPUT to your VIDEO display.

Use appropriate cables and connect one of the following:

- Digital DVI-D
- VGA Video with BNC Connectors: RGBHV
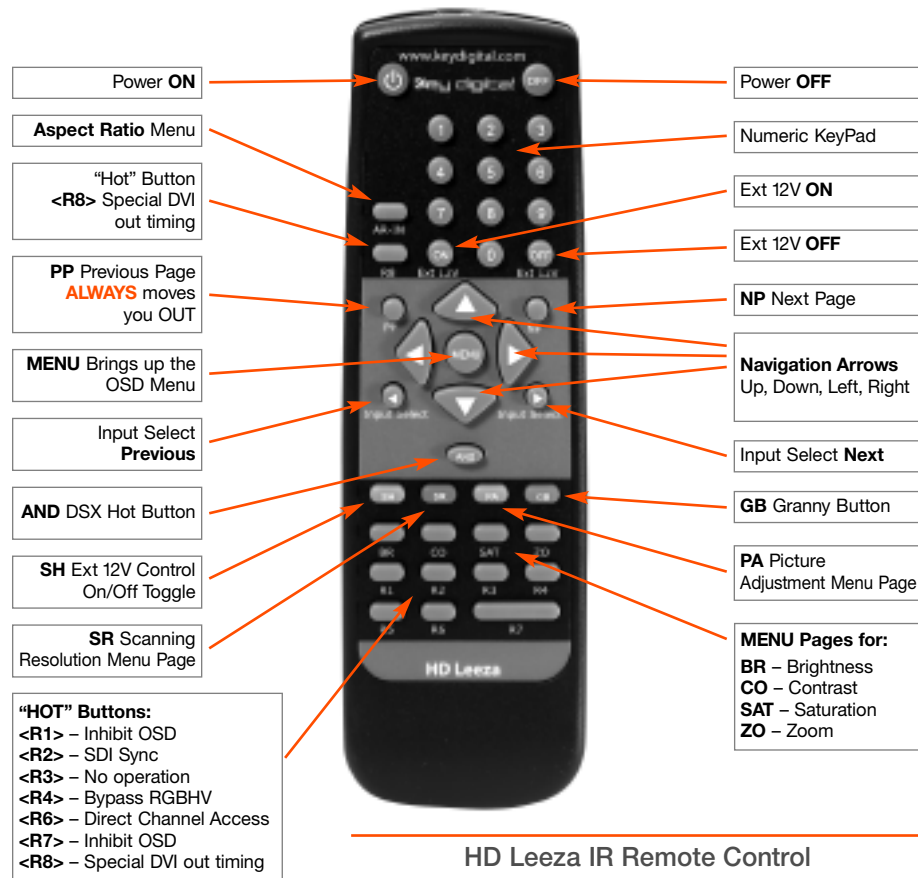- Component Video with BNC Connectors: YPbPr

The preferred way of connecting HD Leeza to your display (in priority order):

1. DVI
2. HDMI using DVI-to-HDMI adapter (included)
3. RGBHV using BNC-to-BNC or BNC-to-VGA adapter cable (included)
4. YPbPr using BNC-to-RCA adapters (included)

STEP 3: BRING UP HD LEEZA'S ON-SCREEN DISPLAY (OSD), AND CONFIGURE HD LEEZA TO MATCH THE OPTIMAL RESOLUTION OF YOUR DISPLAY.

3.1 Bring up HD Leeza's (HDL's) On-screen Display (OSD) by pressing and releasing the menu button.

3.1.1 First, it's a good idea to become familiar with HDL's IR Remote Control, because this is a simple and handy way to perform the initial set-up. This is an "IR" (infrared) remote, so you need a clear line-of-site when aiming it towards theright side of the front panel HDL (that is where the IR sensor is located).

Learn the basics: Menu, Arrow Keys, GR "Granny" Button:

Power **ON**

Aspect Ratio Menu

"Hot" Button **<R8>** Special DVI out timing

PP Previous Page **ALWAYS** moves you OUT

MENU Brings up the OSD Menu

Input Select **Previous**

AND DSX Hot Button

SH Ext 12V Control On/Off Toggle

SR Scanning Resolution Menu Page

"HOT" Buttons:
<R1> – Inhibit OSD
<R2> – SDI Sync
<R3> – No operation
<R4> – Bypass RGBHV
<R6> – Direct Channel Access
<R7> – Inhibit OSD
<R8> – Special DVI out timing

Power **OFF**

Numeric KeyPad

Ext 12V **ON**

Ext 12V **OFF**

NP Next Page

Navigation Arrows Up, Down, Left, Right

Input Select **Next**

GB Granny Button

PA Picture Adjustment Menu Page

MENU Pages for:
BR – Brightness
CO – Contrast
SAT – Saturation
ZO – Zoom

HD Leeza IR Remote Control

SEE END OF THIS MANUAL FOR A SUMMARY OF THESE BUTTONS

3.1.2 Next:

- HDL is Output is pre-set at the factory to a format setting of "720 x 480p"
- Your display may prefer some other format, like "1280 x 720p" (for example)
- If you simply connect HDL's Output (factory 720 x 480) to that Display's Input (for example, 1280 x 720), then:
  - The formats are different
  - You won't get the best picture
- The next step will allow you to set this correctly.

3.1.3 It's simple to reconfigure HDL's factory pre-set setting to match the "native" format of your display. Follow these simple steps:

- HDL is factory-set to 720 x 480/60, RGB Out, CV1 In
- RGB Out is the DVI, HDMI, and RGB output formats from HDL (but NOT the Component Video, YPbPr outputs). See below for handling Component Video Outputs.
- When power is connected to HDL and no Inputs are used:
  - The CV1 LED should blink on HDL's front panel, to indicate No Signal on CV1 Input. DVI, HDMI or RGBHV connections to your display should accept this format.
  - If connecting to your display with YPbPr (Component Video), you'll need to reboot (reset) the HDL to Component Output as follows:
    - a. Press and release the green **GB** ("Granny") button on the HDL remote control
    - b. COUNT TO 5, then press and release the large **Navigation Up-Arrow** or **Down-Arrow** key on the remote control, and HDL will reboot to 720 x 480/60 YPbPr Output
- IF you need to get back to DVI, HDMI or RGBHV:
  - a. Press and release the green **GB** ("Granny") button on the HDL remote control
  - b. COUNT TO 5, then press and release the large **Navigation Right-Arrow** key on the remote control, and HDL will reboot to 720 x 480/60 RGB Output

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3.2 Bring up HD Leeza's (HDL's) On-screen Display (OSD) by pressing and releasing the Menu Button. The Menu Navigation is achieved by using the Four Navigation Arrow Buttons (Up, Down, Left, Right) and the PP (Previous Page) or NP (Next Page) Button. The Right Arrow or NP Button will open the next display window to the right and execute the command at the last open window. The Left Arrow or PP Button will close the open display window. If the Left Arrow Button is used for changing a setting, such as Horizontal Position, the PP Button should be used to close the open window. The Up and Down Navigation Arrow Buttons are used to change the value in each open display window.

3.2.1 When a connection is established between HDL and your display, set HDL to the best resolution for the display. **Use the "Display Matrix" Table attached at the end of this Quick Set-up Guide to determine the best HDL setting for your display.** If your display is not listed, consult the technical specifications in your display's owners manual for the native resolution of your display.

3.2.2 Once you've established the preferred setting from the Display Matrix Table, set HDL's resolution to provide the best match to your display:
CAUTION: In the following Step, if you select a resolution that is not displayable by your display, then you will lose the picture and the HDL OSD. See Step 3.1.3 and reboot HDL back to the factory default:

- 720 x 480p/60 RGB, for DVI/HDMI/RGBHV connections
- 720 x 480p/60 YPbPr, for Component Video connections

For your convenience, listed here are typical display resolutions permitted for the following connections:

- DVI Non HDCP: Many resolutions in the 768p, 960p, 1024p or 1050p categories are permitted
- DVI/HDCP: 720 x 480p/60, 1920 x 540p/60, 1280 x 720p/60
- HDMI: 720 x 480p/60, 1920 x 540p/60, 1280 x 720p/60
- RGBHV: Many resolutions in the 768p or 1024p categories are permitted, and the range of permitted resolutions is usually much larger than the DVI Non HDCP connection
- YPbPr: 720 x 480p/60, 1920 x 540p/60, 1280 x 720p/60
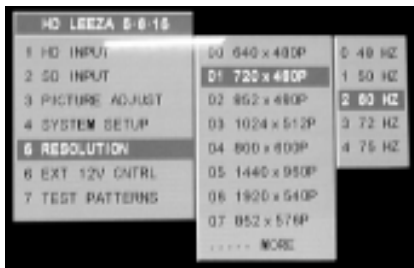
a. Press the **SR** button on the HDL IR remote control

b. Scroll down to the resolution desired

c. Press the large **Navigation Right-Arrow** key

d. Always select 60 Hz unless specified differently in the Display Matrix Table

e. Press the large **Navigation Right-Arrow** key again

f. The menu should reappear on your display, with the new resolution specifications in your display's owners manual for the native resolution of your display.

## STEP 4: ADJUST HD LEEZA'S VIDEO PROCESSING SETTINGS TO YOUR INDIVIDUAL PREFERENCES.

4.1 Now that the resolution has been set, "Frame" the video on your display. This process ensures that the picture from HDL is centered vertically and horizontally on your display, and that it fills the entire screen.

4.1.1 To perform the "Framing" you'll need to connect a DVD Player to HDL:

- Use the YPbPr SDTV connection to HDL, and the BNC-to-RCA adapters (included).
- The SDTV HDL input will not recognize 480p from DVD player.
  ⇒ Set your DVD player to 480i.
  ⇒ If your DVD player does not have a convenient front-panel button to select 480i, first connect your DVD player Composite output directly to your display (do NOT connect through HDL!) and set your DVD player through its OSD to 480i.
  ⇒ Set the DVD Aspect ratio to 16:9. If you connected your DVD player directly to the display, now connect the DVD player to the back of the HD Leeza.
- Select a DVD movie or other DVD video material you are familiar with, so you know in advance what the video should look like. Insert the DVD video disc in your DVD player and hit Play.

4.1.2 Set your Display and HDL to correct picture framing.
NOTE for the HDL OSD:
- **"SYSTEM SETUP"** refers to the OUTPUT side of HDL, that is connected to your DISPLAY
- **"PICTURE ADJUST"** refers to the INPUT side of HDL, that is connected from your video source (like a DVD player)

Follow these Steps in the following order:

1. Set HDL Output Aspect Ratio to 1.78 (other Output Aspect Ratios can be used for special applications). On the HDL IR remote control:
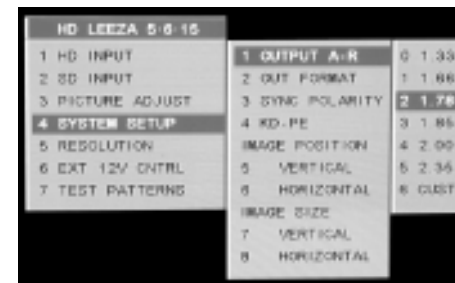
- Press **Menu**
- Use the large **Navigation Right-Arrow** to
  ⇒ Select **System Setup**, press **right arrow**
  ⇒ Select **Output A-R**. press **right arrow**
  ⇒ Select **1.78**, press **right arrow**

HD Leeza Quick Setup Guide

2. Set HDL Input Aspect Ratio to 1.78 (other Output Aspect Ratios can be used for special applications). On the HDL IR remote control:
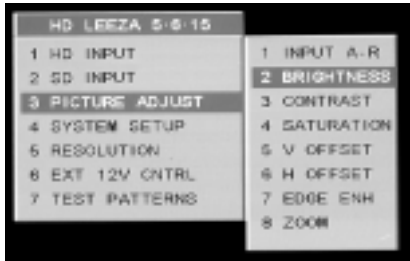
- Press **Menu**

- Use the large **Navigation Right-Arrow** to

  ⇒ Select **Picture Adjust**, press **right arrow**
  ⇒ Select **Input A-R**, press **right arrow**
  ⇒ Select **1.78**, press **right arrow**

3. **Adjust "SYSTEM SETUP" Picture Position and Size using HDL's IR remote control** (you may need to go back-and-forth between size and position until the picture is perfectly Framed):

- For **DVI** and **HDMI** connections to your Display, adjust Position using the Position settings control **ON YOUR DISPLAY (NOT HDL!). This is required because most displays in the DVI or HDMI mode do NOT accept HD Leeza H and V position adjustments.**

- Adjust Size using HDL so the picture fills the entire screen. **Position** (for VGA or Component Video) and **Size** adjustments are in HDL's System **Setup Menu**. Adjust Size using HDL so the picture fills the entire screen.
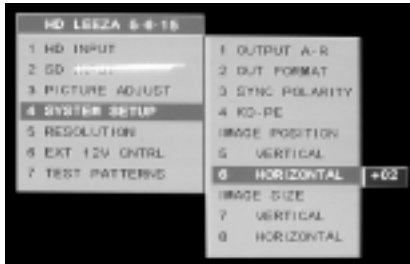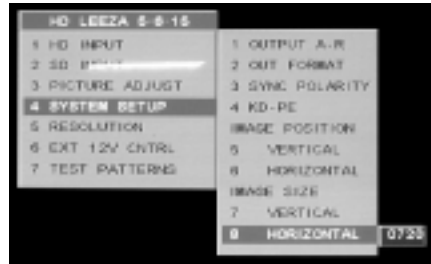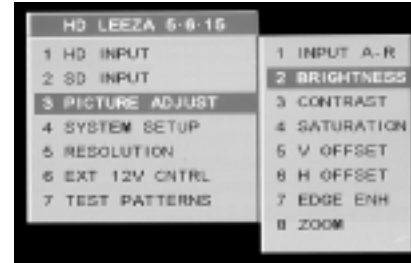

Image POSITION Adjust

Image SIZE Adjust

4.2 Now that the resolution has been set and your video has been "Framed" on your Display, you can use HDL to adjust and save the picture settings for each input.

- All eight (8) settings in the Picture Adjust menu can be individually set for each input:

  ⇒ Input Aspect Ratio
  ⇒ Brightness
  ⇒ Contrast
  ⇒ Saturation
  ⇒ Vertical Offset
  ⇒ Horizontal Offset
  ⇒ Edge Enhancement
  ⇒ Zoom

- Three additional settings in the System Setup menu can be individually set for each input: KD-PE, Horizontal Position, and Horizontal Size

- To memorize individual Input preference setting:

  a. Switch to your desired input using the OSD, IR remote control, or RS232

  b. Adjust all Picture Adjustment settings and the three System Setup settings to your preference

  c. **Re-select the same input through the OSD ONLY**

  d. You will see secondary OSD MEMORIZE PA

  e. Select **MEMORIZE PA** and press large **Navigation Right Arrow** button in the remote

STEP 5: NOW CONNECT YOUR OTHER VIDEO SOURCES TO THE INPUTS ON THE BACK OF THE HD LEEZA. FOR EXAMPLE A VCR OR CABLE BOX.

Please consult the complete and detailed HDL User Manual for all other features and settings.

HD Leeza Quick Setup Guide

HANDY LIST OF HD LEEZA IR REMOTE "HOT" BUTTONS

Pressing one button on HD Leeza's IR Remote performs the following functions

R1 - Inhibit OSD Hot Button:

R1 is a hot button used in conjunction with the numbers 1 and 2. (R1, 2) is the default setting.

- (R1, 1) puts HD Leeza in a mode where the OSD is not displayed when the input channel is changed.
- (R1, 2) restores the default mode where OSD is displayed on channel changes.

R2 - Separate Sync on SDI Hot Button:

R2 is a hot button used in conjunction with the numbers 1 and 2. (R2, 2) is the default setting.

- (R2, 1) enables separate sync on SDI inputs. Then the frame can be moved horizontally and vertically, exactly as with other input channels.
- With (R2, 2), SDI inputs use embedded sync and cannot be moved on the display screen.

R4 - RGBHV Bypass Hot Button:

R4 is a hot button working as a RGBHV bypass switch. It connects the input RGBHV to the output RGBHV, bypassing HD Leeza processing.

R6 - Direct Input Access Hot Button:

You can select any of HD Leeza's inputs directly by first pressing the R6 button and then the desired input number, as follows:

- 0 = DVI Input #1
- 1 = DVI Input #2
- 2 = RGBHV Input
- 3 = Component HD Input
- 4 = Serial Digital Input
- 5 = Component SD Input
- 6 = S-Video Input #1
- 7 = S-Video Input #2*
- 8 = Composite Video Input #1
- 9 = Composite Video Input #2*

* If there is no video source connected to the selected input, its front panel LED will blink (except for Composite Video #2 and S-Video #2 inputs, and the words "No Signal" will also appear on screen).

Single digit Direct Access Input Switch:

The input can be switched as usual using (R6, #) as well as new Single key #. The single key mode is activated once ALL OSD is automatically erased from the screen following 60 seconds of remote-control inactivity. The single key mode will also activate after the user presses the PP button (at most) 6 times – effectively erasing all OSD. The single key direct access works the same way as (R6, #} or as the RS232 command (i, #). It switches and plugs individual memories without displaying any OSD.

R7 – RGB/DVI Display Hot Button:

R7 is a hot button used together with the numbers 1, 2, or 3. (R7, 1) is the default setting.

- With the (R7, 1) setting, the horizontal and vertical positions are zeroed out before being moved to their normal values. This enables DVI displays to center the frame correctly. For RGB display outputs, (R7, 1) is the best setting. With (R7, 1), the extra operations needed for DVI displays are eliminated resulting in faster response.
- (R7, 2) adds a sync-polarity "flip-flop" following (R7, 1) operation.

R8 - Direct DVI Phase Clock Configuration Hot Button:

You can manually configure the DVI phase clock for DVI output (direct DVI phase clock configuration may be necessary if your Display does not sync up when output resolutions at 1280 x 1024/75 Hz and higher are selected). This is done by pressing the **R8** button and then entering the desired number, as follows:

- 0 = Phase 0
- 1 = Phase 1
- 2 = Phase 2
- 3 = Phase 3 (factory default)
- 4 = Phase 4
- 5 = Phase 5
- 6 = Phase 6
- 7 = Phase 7

Note: You will not see an adjustment menu on your Display when setting this configuration.

Special X or N DVI Input/Output Mode:

The remote commands (R8, 8) and (R8, 9) can be used to select a special X or N DVI input/output mode respectively. Stick with the default DVI_PH_N (R8,9) if you have no issues with DVI input/output.

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HD Leeza Quick Setup Guide

Preferred HD Leeza Resolution Settings for Popular Displays

The Table presented below is a "living document" based on actual user-experience with HD Leeza and various types of displays. Please be sure to check the Key Digital web site www.keydigital.com, or contact tech@keydigital.com to be sure that you have the latest and most complete and accurate version of this table.

HD LEEZA "DISPLAY MATRIX" TABLE

Brand Name & Technology	Model #	Interface from HD Leeza	Resolution used by HD Leeza	Refresh Rate (Hz)	HD Leeza Non-default Settings	Display Non-default Settings
AMPRO LCD	300	RGBHV	1280x1024p	60	H. Position: -15	
DWIN DLP	TV3	DVI	1280x720p	60		
Fujitsu Plasma	P42HHA10WS	DVI	1024x1024p	60	H. Size: 1032	H. Pos.: -8 V. Pos.: -12
Fujitsu Plasma	P42HHA30WWS	DVI	1024x1024p	60	H. Pos.: -9 H. Size: 1032 V. Pos.: -10 V. Size: 1022	
Fujitsu Plasma	P50XHA10US	RGBHV	1280x768p	60	H. Pos.: +33, H. Size: 1264	
		DVI	1366x1024p	60	H. Pos.: +4 H. Size: 1334	H. Pos.: Default V. Pos.: -17
Fujitsu Plasma	P50XHA30US	DVI	1366x768p	60	H. Size: 1382	H. Pos.: +10
Fujitsu Plasma	P50XHA30YS	DVI	1366x768p	60	H. Pos.: +34, H. Size: 1374	
Fujitsu Plasma	P50XP1	DVI	1366x768p	60		
Fujitsu Plasma	PDS4241WH	RGBHV	1280x768p	60	H. Pos. +31	
		DVI	1366x768p	60	H. Pos.:+5, H. Size: 1390	H. Pos.: +35 V. Pos.: +5
Fujitsu Plasma	PDS6101W	RGBHV	1920x1080p	60		
		DVI	1366x768p	60		
Hughes LCOS	G1000	RGBHV	1365x1024p	60		

Preferred HD Leeza Resolution Settings for Popular Displays

Brand Name & Technology	Model #	Interface from HD Leeza	Resolution used by HD Leeza	Refresh Rate (Hz)	HD Leeza Non-default Settings	Display Non-default Settings
InFocus DLP	ScreenPlay 5700	RGBHV	1280x720p	60	H. Pos.: -60 H. Size: 1320	
JVC D-ILA	D-ILA-150CL	DVI	1280x720p	60		
JVC D-ILA	D-ILA G11	RGBHV	1366x1024p	50, 60, 72, 75	• SDI: H Pos.: +32 • Comp.: H. Pos.: +42 Brightness: 45	
JVC D-ILA	G-150CLU	RGBHV	1920x1080p	60		Lens: 1.33 Screen: 1.78
LG Plasma	MU50PZ90V	DVI	1365x1024	60	Sync: Negative	
Loewe Aconda	ACO9383PB	RGBHV	1920x540	60		
Marantz (NEC) 61" Plasma	PD6120D	DVI	1280x720p	60		
		RGBHV	1280x768p	60	Sync: Positive	
Marantz Plasma	PD5040D	DVI	1366x768p	60	Sync: Positive	Adjust Horizontal 100%
		RGBHV	1366x1024		Sync: Positive	
Marantz DLP	VP-12S1	RGBHV	1280x720p	60		Set to Auto Mode
Marantz DLP (front)	VP-12S2	DVI, RGBHV	1280x720p	60		Set to Auto Mode
Marantz	VP-12S3	DVI	1280x720p	60	Must set HD Leeza Horizontal Size to 1296 to enable H & V position controls on the projector	
Mitsubishi (rear)	WS65903	RGBHV	1920x540p	60		
Mitsubishi CRT	XC-3730C	RGBHV	800x600	72		
Monivision CRT	DM-6552SW	RGBHV	1280x720p	60		H. Pos.: 53 H. Size: 86 V. Pos.: 61 V. Size: 45
NEC front CRT	9PG	RGBHV	1024x768p	60	Default	Default
Panasonic 42" Plasma	PT-42PD3-P	RGBHV	852x480	60		
Pioneer Plasma	503 CMX	DVI and RGBHV	1280x768p	60	H. Size: 1296	H. Pos.: 0 V. Pos.: 0
Pioneer	PDP433	DVI and RGBHV	1280x768p	60	For DVI use Sync: Positive	
Pioneer (rear)	PRO-510HD	RGBHV	1920x540p	60	Default	Default
Pioneer Plasma	PRO-1000HD Elite	RGBHV	1280x768p	60		

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HD Leeza Quick Setup Guide

Preferred HD Leeza Resolution Settings for Popular Displays

| Brand Name & Technology	Model #	Interface from HD Leeza	Resolution used by HD Leeza	Refresh Rate (Hz)	HD Leeza Non-default Settings	Display Non-default Settings
Pioneer Plasma	PRO-1110HD Elite	HDMI	1920x540p	60	HD Leeza H & V Size adjustments accepted by display	Must use display's H & V Position control.
Runco DLP	CL-710	DVI	1280x720p	60		
Runco Plasma	CW43ME	DVI	1280x768p	60		
Runco Plasma	50"	DVI	1024x768p	60	H. Pos.: -72	H. Pos.: -15 V. Pos.: -1 Anamorphic setting
Runco CRT (front)	DTV 1100	RGBHV	1280x960	60		
Runco CRT 8" guns (front)	NEC XG-85	RGBHV	1280x720p	60	H. Pos.: -53 H. Size: 1296	
Samsung	HPN6339	DVI	1280x768p	60		
Samsung Plasma	PPM50H3	DVI	1920x1080p	60		
Samsung 42" Plasma	SPN4235	RGBHV	800x600	60		
		YPbPr	1280x720p			
Sharp DLP	SharpVision XV-Z10000	DVI	1280x720p	60	H. Pos.: -23	
Sim 2 DLP	HT250	RGBHV	1280x720p	60		
Sim 2 DLP	HT300XTRA	DVI & RGBHV	1280x720p	60		
Sony	Grand Wega KDF70XBR950	DVI	1920x540 or 1280x720p	60	Default	Default
Sony 32" Plasma	KE32TS2U	DVI	1280x720p	60		
Sony Plasma	KE37XS910	DVI	1920x540p	60		
Sony LCD (rear)	Wega KF-60XBR800	DVI	1280x720p	60		
Sony CRT (front)	WPH G90	RGBHV	1920x1080p	60		Clamp in H/C mode
Sony	50KBR950	DVI	1280x720p	60	H. Size: 1296 Sync: Negative Gamma: 1.1	
Toshiba Plasma	42HP83P	DVI	1280x720p	60	H. Pos.: +16	
Toshiba LCOS	57HLX82	DVI	1280x720p	60	H. Pos.: –6	None
Zenith 60" Plasma	P60W26	RGBHV	1280x920p	60	H. Size.: 1312 V. Size: 924	

Setup Notes:

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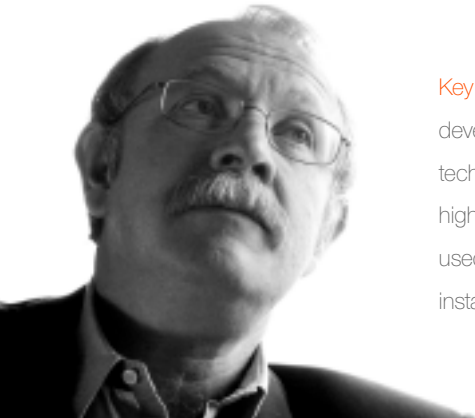
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