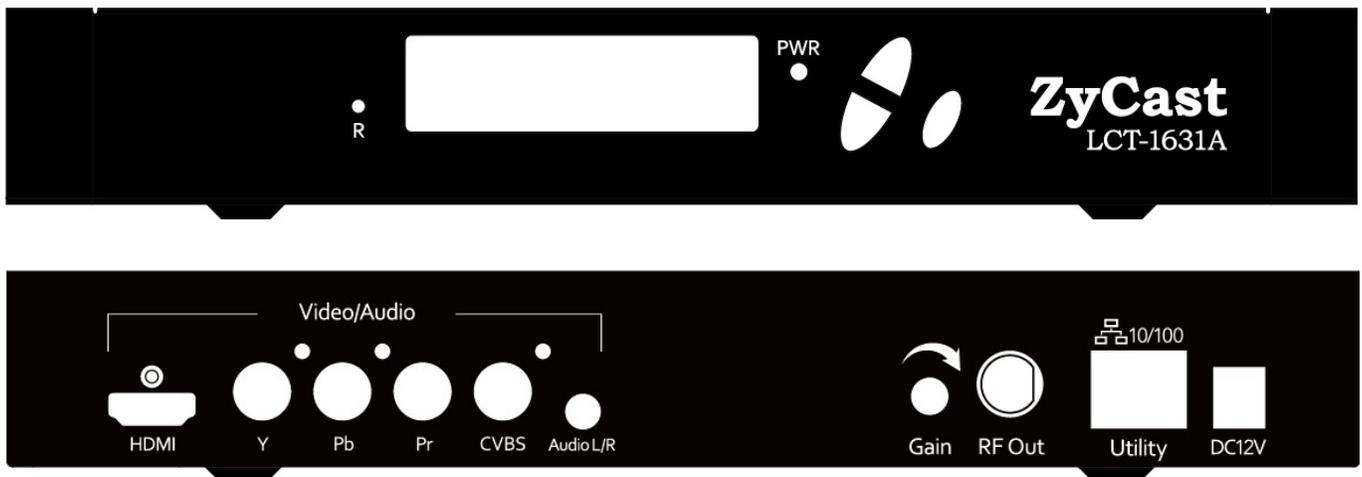


LCT-1631A

MPEG-2 HD Digital Modulator

User Guide and Installation Manual



ZyCast Technology, Inc.
No. 33, Lane 181, Chung Hwa Road
Section 4, Hsin Chu, Taiwan 30060
Tel: +886-3-5400-949 Fax: +886-3-5400-413
Australia/NZ contact +61448100429
www.zycast.com.tw

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Safety Precautions

The presence of this symbol is to alert the installer and user to the presence of uninsulated dangerous voltages within the product's enclosure that may be of sufficient magnitude to produce a risk of electric shock.



TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

- DO NOT apply power to the unit until all connections have been made, all components have been installed and all wiring has been properly terminated.
- DO NOT terminate, change or uninstall any wiring without first disconnecting the unit's power adapter from the device.
- This device is supplied with the appropriately rated power supply. The use of any other power supply could cause damage and invalidate the manufacturer's warranty.
- DO NOT connect the power cord to the device if the power cord is damaged.
- DO NOT cut the power cord.
- DO NOT plug the power cord into an AC outlet until all cables and connections to the device have been properly connected.
- The device should be installed in an environment consistent with its operating temperature specifications. Placement next to heating devices and ducts is to be avoided as doing so may cause damage. The device should not be placed in areas of high humidity.
- DO NOT cover any of the device's ventilation openings.
- DO NOT cover or obstruct the device's fan or fan openings.
- If the device has been in a cold environment allow it to warm to room temperature for at least 2 hours before connecting to an AC outlet.



Package Contents

This package contains:

- LCT-1631A Encoder / Modulator
- Power Adapter
- 3.5mm to 2 RCA Audio Lead
- One installation / configuration manual

Inspect the package before starting installation to ensure there is no damage and all supplied contents are present.

Introduction

The LCT-1631A is a cost effective, single input MPEG-2 HD Encoder/Modulator that converts Digital Video Broadcasting (DVB) high definition video and audio signals to COFDM. The unit's front-mounted LCD display allows for easy configuration and adjustments.

The compact and economical LCT-1631A Modulator is perfect for multi-video distribution solutions in the commercial and institutional market (hotels, motels, sports bars, restaurants, hospitals, casinos, business and university campuses, digital signage, etc.) as well as home entertainment systems.

Features

- ☼ HDMI, Component, Composite Inputs, RF Output
- ☼ Gain Control (20dB Manual Attenuation)
- ☼ RJ-45 port for Web Management
- ☼ Video resolution: Up to 1080i/1080p
- ☼ Perfect, clean and clear HD picture on high motion video, sports, text crawls/rolls, etc.
- ☼ Front Panel LCD
- ☼ Cool & silent operation

Specifications

Video / Audio Input	
HDMI 1.4	
Connector	Single
Audio	Embedded PCM
HDCP Compliance (Test Mode)	1.4
Component / Composite	
Connector	RCA x1 Set for Each
Audio	Analog 3.5mm (Phone Jack)
Video/ Audio Encoding Profile	
Video	
Video Codecs	MPEG-2 VBR
Bitrate (Adjustable)	DVB-T: HD: 12.0 to 24.0Mbps SD: 4.0 to 9.0Mbps
Resolution Output	Same as Input, Accepting Resolution as Follows: 1080p30 / 1080p25 1080i60 / 1080i50 720p60 / 720p50 576p / 480p 576i / 480i
Audio	
Audio Codecs	MPEG1 Layer II / MPEG4 AAC / AC-3 Encode (Optional)
Output	
Standard	DVB-T
Connector	1x "F" Female
Output Level	95 dB μ V Typical (With 20dB Range Manually Adjustable)
Flatness Across Full Band	\pm 2 dB Typical
MER	38 dB Typical @ 480.5 MHz under DVB-T Mode
Output Impedance	75 ohm
RF Output Return Loss	10 dB Typical

Modulator STD	DVB-T (COFDM)
RF Mode	Normal / Inverted
Frequency Range (AU / NZ)	AU: 104.5 MHz to 816.5 MHz (Channel 5 to Channel 69) NZ : 107.5 MHz to 858.0 MHz (Channel S1 to Channel 69)
Constellation (Output Bitrate, Max.)	AU : 64-QAM (27.70Mbps) NZ : 64-QAM (31.66 Mbps)
FEC	7/8
LCN Mode	AU / NZ
OFDM Mode	2k, 8k
Guard Interval	1/32
General	
Local Monitoring	LCD
Web GUI Supported	Firefox, Chrome
Password Protected	GUI: User Settable
Power Supply	12VDC 1.5A
Consumption	5W
Operation Temperature	0°C to +55°C
Storage Temperature	-20°C to +70°C
Dimension	Housing: 236(L) x 145(W) x 34(H) mm
Weight	TBD
Language	English

* Specifications subject to change without notification

* Dolby Digital Encode Manufactured under License of Dolby Laboratories

Installation

System Installer must adhere to Article 820-40 of the NEC that provides guidelines for proper grounding and specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Unpacking and Inspection

Each unit is shipped factory tested. Ensure all items are removed from the container prior to discarding any packing material.

Thoroughly inspect the unit for shipping damage with particular attention to connectors and controls. If there is any sign of damage to the unit or damaged or loose connectors contact your distributor immediately. Do not put the equipment into service if there is any indication of defect or damage.

Hardware Installations and Connections

It is highly recommended that quality cables and connectors be used for all video and audio source connections.

1. The unit comes standard with HDMI, Component, and Composite video inputs. The modulator is intelligently designed to detect the video input from the video source.

HDMI Connection: Connect the HDMI cable from the video source into the HDMI input.

If using a **Component Video Cable**, connect the Y (Green), Pb (Blue), and Pr (Red) video source cable to the unit's Component input port.

If using a **Composite Video** source, use RCA connectors to connect the **video source** (e.g., CATV, DVD, VCR, Camera) to the unit's CVBS port.

2. **Composite Audio input:** Connect A/V audio source (Left / Right Audio, the red / white **AUDIO L and AUDIO R**) to connect the **audio source** to the 3.5mm **Audio L/R** phone jack.
3. Use a quality 75Ω coaxial cable with "F" connectors from the unit's **RF Output**.
4. Connect the included power adapter to the unit's **POWER** plug.
5. Connect the power adapter to an appropriately rated AC power outlet.

DEVICE Programming and Setup:

Connecting to the GUI Interface:

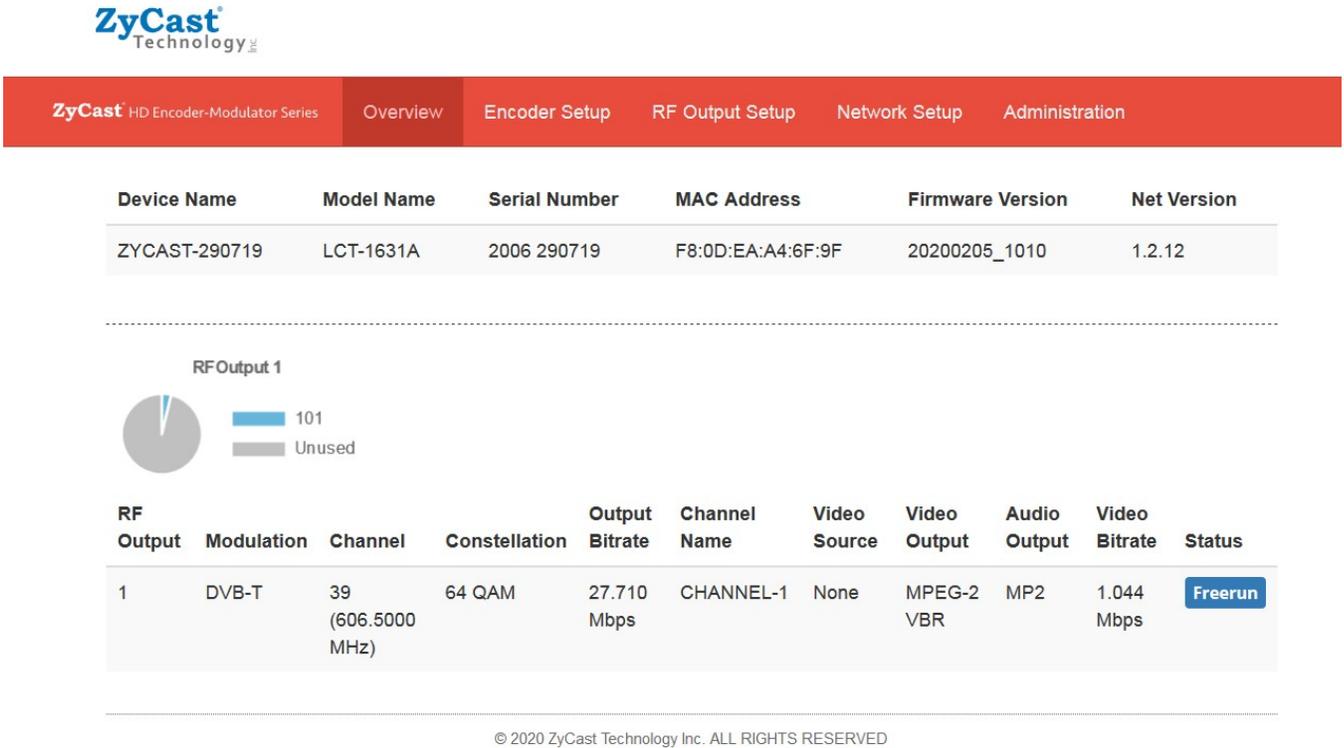
Factory Default IP: 192.168.1.9

1. Connect an Ethernet cable to the Utility Port of the LCT-1631A and to your PC/Laptop.
2. Modify your PC/Laptop's IP address to 192.168.1.100.
3. Enter '192.168.1.9' into your web browser.
4. Make all required parameter changes.
5. Save all changes.

Encoder Programming and Setup via GUI Interface:

After connecting the device to the Utility port located on the rear of the device and connecting to a PC / Laptop.

Step 1: Enter Device's IP address in web browser.



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ZyCast HD Encoder-Modulator Series

Overview Encoder Setup RF Output Setup Network Setup Administration

Device Name	Model Name	Serial Number	MAC Address	Firmware Version	Net Version
ZYCAST-290719	LCT-1631A	2006 290719	F8:0D:EA:A4:6F:9F	20200205_1010	1.2.12

RFOutput 1



RF Output	Modulation	Channel	Constellation	Output Bitrate	Channel Name	Video Source	Video Output	Audio Output	Video Bitrate	Status
1	DVB-T	39 (606.5000 MHz)	64 QAM	27.710 Mbps	CHANNEL-1	None	MPEG-2 VBR	MP2	1.044 Mbps	Freerun

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Overview page shown the encoder's status and information as above.

Step 2: Enter Username/Password

Select Encoder Setup

After selecting the Encoder Setup Tab, the user will be prompted to enter the username and password for device.

GUI Login Password:

Default Username: **admin**
Default Password: **Admin123**



To view this page, you must log in to area "Protected" on 192.168.1.9:80.
Your password will be sent unencrypted.

Name: admin

Password: Admin123

Remember this password in my keychain

Cancel Log In

Note: To change the Password for the GUI go to the Administration Tab.

Step 3: Encoder Setup

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ZyCast HD Encoder Modulator Series Overview Encoder Setup RF Output Setup Network Setup Administration

Encoder Setup

This page allows the user to configure the device's encoder settings.

Encoder 1

LCN (Channel Number)	101	Clear
Channel Name	CHANNEL-1	
Provider Name	ZyCast	
Video Input	Auto detect	▼
HD BitRate(Mbps)	24	Clear
SD BitRate(Mbps)	4	Clear
Program Number	1	Clear
Video Output	MPEG-2 VBR	
HDCP (Test Mode)	<input checked="" type="checkbox"/>	
Closed Caption	<input type="checkbox"/>	
Audio Input	Auto detect	▼
Audio Output	MPEG1 Layer2 (MP2)	▼

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Encoder Setup page allows the integrator to select and set:

Set Encoder Settings:

Select and set the specific parameters settings as required for your application.

- ◇ **LCN** – LCN range: 1 to 999. Factory default: 101.
- ◇ **Channel Name** – A Channel Name can consist up to 16 characters. Factory Default: CHANNEL-1.
- ◇ **Provider Name** – A Provider Name can consist up to 16 characters. Factory Default: ZYCAST.
- ◇ **Video Input** – Video Input option: Auto Detect, HDMI, Component, or Composite. Factory default: Auto Detect.
- ◇ **HD Bitrate** – HD Bitrate range: 12.0~24.0 Mbps. Factory default: 24.0 Mbps.
- ◇ **SD Bitrate** – SD Bitrate range: 4.0~9.0 Mbps. Factory default: 4.0 Mbps.
- ◇ **Program Number** – Program Number range: 1 to 65534. Factory default is 1.
- ◇ **HDCP (Test Mode)** – Select to Enable / Disable.
NOTE: It is the installers / property owner / integrator's responsibility to contract with the service provider regarding content authorization and the use of HDCP.
- ◇ **Closed Caption** – Select to Enable / Disable.
- ◇ **Audio Input** – Audio Input option: Auto Detect or Analog. Factory default: Auto Detect.
- ◇ **Audio Output** – Audio Output option: MPEG1 Layer2, MPEG4 AAC, AC-3 (Optional). Factory default: MPEG1 Layer2.

SAVE AND CONFIRM ALL CHANGES MADE ON THE ENCODER PAGE



Note: All the changes made will be reset while press the Reset button instead of Save and Confirm.

All Changes made will be show in the applet window (see below example)

Apply changes ×

CAUTION: Incorrect settings may cause the device to lose network connectivity. Recovery options will be provided on the next page.

Apply the following changes to this device?

- Encoder 1, Program Number: 1 => 4
- Encoder 1, SD BitRate(Mbps): 4 => 4.8
- Encoder 1, Audio Output: MPEG1 Layer2 (MP2) => AC-3
- Encoder 1, HD BitRate(Mbps): 24 => 21.6

Close Submit

Select 'Submit'

Note: To reset all changes made or saved go to the Administration Page and select '**Reset to Default**'.

***Leaving the encoder page without saving changes will cause the previous settings to be used.**

- If the unit is outputting video to the system there will be a brief delay in the video while the parameters are saved.

Step 4: RF Output Setup

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ZyCast HD Encoder Modulator Series Overview Encoder Setup **RF Output Setup** Network Setup Administration

RF Output Setup

This page allows the user to configure the RF settings. Enter/Select the required settings for each RF Channel. Use the **Save and confirm** button to save any changes made.

RF Settings

	RF 1
Original Network ID	8228
Network ID	12801
TS ID	1
Network Name	ZyCast
RF Output	Normal
Channel / Frequency	39 (606.5000 MHz)
Bandwidth (MHz)	7
Constellation	64 QAM
FEC	7/8
Guard Interval	1/32
OFDM Mode	8k
CELL ID	0
Maximum Allowable Bit Rate (Mbps)	1.048/ 27.710

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Use the RF Setup page to set the RF output type, RF Output CH/frequency, and Constellation.

Modify and set the required parameters for your installation

- ◇ **Original Network ID** – ONID range: 1 to 65535. Factory default is 8228.
- ◇ **Network ID** – NID range: 1 to 65535. Factory default is 12801.
- ◇ **TSID** – TSID range: 1 to 65535. Factory default is 1.
- ◇ **Network Name** – A Network Name can consist up to 16 characters. Factory Default: ZyCast.
- ◇ **RF Output** – RF output option: Normal or Inverted. Factory default is Normal.
- ◇ **Channel / Frequency** – Factory default is 39(606.5000MHz)
- ◇ **Constellation** – The Constellation is default 64 QAM.
- ◇ **FEC** – The FEC is default 7/8.
- ◇ **Guard Interval** – The Guard Interval is default 1/32.
- ◇ **OFDM Mode** – OFDM Mode option: 2k or 8k. Factory default is 8k.
- ◇ **CELL ID** – The CELL ID is default 0.

Save and Confirm all changes settings on RF Output Setup page.

Application Note: When installing more than 1 device into a system, each device must have a unique RF TSID. We highly recommend you save your encoder configuration files. See Administration tab for how to backup device settings.

Step 5: Network Configuration



Network Setup

This page allows the user to configure the device's network settings.

Hostname	<input type="text" value="ZYCAST-290719"/>
MAC Address	F8:0D:EA:A4:6F:9F
DHCP	<input type="checkbox"/>
IP Address	<input type="text" value="192.168.1.9"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="0.0.0.0"/>
<input type="button" value="Save and Confirm"/> <input type="button" value="Reset"/>	

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Management IP Setup:

Use the Network Setup to configure the device's Management Port's IP address (GUI address) of the device, Subnet Mask, Gateway, Enable/Disable DHCP, and set Host Name.

➤ **Factory Default GUI IP is 192.168.1.9.**

Save and Confirm: Once all parameters are set remember to Save and Confirm all changes.

Note: It is highly recommended that the GUI / Remote Setup IP address is recorded locally for access to the GUI in the field.

Step 6: Administration

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ZyCast HD Encoder-Modulator Series Overview Encoder Setup RF Output Setup Network Setup Administration

Administration

REBOOT RESET TO DEFAULT

Backup / Restore Firmware Upgrade Password

Download current configuration settings to a local file.

BACKUP

Upload a pre-saved configuration to the device.

BROWSE... UPLOAD

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Reboot:

Use the Reboot command button to reboot the device.

Note: Any unsaved changes will be lost.

Reset to Default:

Use the Reset to Default button to reset all parameters to original factory settings.

Saving your configuration files

We highly recommend you save your configuration files. Simply Click the “Backup” button and the config files will be saved to your computer.

Backup:

1. Select Administration tab.
2. Select backup from the menu.
3. Locate and name file for future use.

Restore/Upload saved file configurations:

1. Select Administration tab.
2. Select “Browse...” menu.
3. Locate the required file to be imported.
4. Select “UPLOAD” to import the selected file into the device.
5. Remember to save and backup any and all changes.

Firmware Upgrade



Administration

REBOOT RESET TO DEFAULT

Backup / Restore Firmware Upgrade Password

Current Firmware

Model Number	LCT-1631A
Serial Number	2006 290719
Firmware Version	20200205_1010
Net Version	1.2.12

Update Firmware



Select a new firmware image file and Upload.

BROWSE...

UPLOAD

Select BROWSE... to select a new firmware image file and UPLOAD to update the Firmware if needed.

Change Password:

Use the Change Password section to change or modify the device's password as desired.



Administration

REBOOT RESET TO DEFAULT

Backup / Restore Firmware Upgrade Password

Change Password

CAUTION: The new password must contain:

- 6-8 characters
- At least one digit
- At least one uppercase character
- At least one lowercase character

Old Password:

New Password:

New Password:

Save and Confirm

Save and Confirm new password.

Front Panel Control

The LCT-1631A can be programmed using the front panel LCD to configure the unit as desired.

Once the unit has powered up it will go through an internal booting process the unit is ready for programming or operation. and display Bit rate information in the LCD display when ready.

➤ **Press OK**

LCD Password – Press the OK button to enter the 4-digit password. Use the Scroll Up/Down button to search and select individual numbers for the password. Press the OK button for each number to enter the password.

➤ **Password:** Default password is 0000.

LCD Setup Menu Map

Main Menu

RF Setup	Encoder Setup	Network Setup	Change Password	Reset to Default	Exit
Channel	LCN	Host Name			
ONID	Channel Name	IP Setup			
NID	Provider Name	Exit			
TSID	Video Input				
Network Name	HD Bitrate				
RF	SD Bitrate				
Constellation	Program Number				
FEC	HDCP (Test Mode)				
GI	Closed Caption				
OFDM Mode	Audio Input				
CELL ID	Audio Output				
Exit	Exit				

Use the Scroll Up/Down buttons to navigate the LCD Menu



Modulator Configuration via Front Panel LCD

Once the encoder is powered up it will go through its initial booting process. Once the unit has completed its initial “Booting” up process the LCD will display IN-1..., Bit Rate information, CHANNEL-1..., and other information in the LCD Display Window. When visible the unit is ready for programming or operation.

Main Menu– To access the Main Menu first enter the password by pressing the OK button. Use the Scroll Up/Down buttons to enter the password. The password is - 0000. Once the password is entered press the OK button again and the LCD Screen will display the Main Menu.

RF Setup Menu

- ◆ **Channel** – Use the Scroll Up/Down button to change the output channel. Use the Scroll Up/Down buttons to select the desired Output Channel. Once the desired output channel is selected press the OK button to set the channel.

The LCD Display will show both the channel number and the frequency number of the output channel example: 39(606.5000MHz)

- ◆ **ONID** – Use the Scroll Up/Down button to select ONID. Press the OK button to enter the ONID menu. Use the Scroll Up/Down button to select the desired ONID ranging from 1 to 65535 then press the OK button to set. Factory default is 08228.
- ◆ **NID** – Use the Scroll Up/Down button to select NID. Press the OK button to enter the NID menu. Use the Scroll Up/Down button to select the desired NID ranging from 1 to 65535 then press the OK button to set. Factory default is 12801.
- ◆ **TSID** – Use the Scroll Up/Down button to select TSID. Press the OK button to enter the TSID menu. Use the Scroll Up/Down button to select the desired TSID ranging from 1 to 65535 then press the OK button to set. Factory default is 00001. Note: If installing multiple units in the same system – ensure each device must have a unique TSID.
- ◆ **Network Name** – Use the Scroll Up/Down button to select Network Name. Press the OK button to enter the Network Name menu. Use the Scroll Up/Down button to select the first character for the desired Network Name then press the OK button to set. Repeat the process for each character in the desired Network Name. A Network Name can consist up to 16 characters.
- ◆ **RF** – Use the Scroll Up/Down button to select RF. Press the OK button to enter the RF menu. Use the Scroll Up/Down button to select the desired RF, Normal or Inverted, then press OK button to set. Factory default is Normal.
- ◆ **Constellation** – The Constellation is default 64 QAM.
- ◆ **FEC** – The FEC is default 7/8.
- ◆ **GI** – The GI, Guard Interval, is default 1/32.
- ◆ **OFDM Mode** – Use the Scroll Up/Down button to select the OFDM menu. Press the OK button to enter the OFDM menu. Use the Scroll Up/Down to select the OFDM 2k or 8k. Press OK to set. Factory default is 8k.
- ◆ **CELL ID** – The CELL ID is default 00000.
- ◆ **EXIT** – Select EXIT to escape the RF Setup Menu.

Encoder Setup Menu

- ◆ **LCN**-Use the Scroll Up/Down button to set LCN. Press the OK button to enter The LCN menu. Use the Scroll Up/Down to set the LCN, ranging from 1 to 999. Press OK to set. Factory default: 101.
- ◆ **Channel Name** – Use the Scroll Up/Down button to select Channel Name. Press the OK button to enter the Channel Name menu. Use the Scroll Up/Down menu to select the first character of the desired Channel Name then press the OK button to set. Repeat the process until the Channel Name is completed. Factory Default: CHANNEL-1. A Channel Name can consist up to 16 characters.
- ◆ **Provider Name** – Use the Scroll Up/Down button to select Provider Name. Press the OK button to enter the Provider Name menu. Use the Scroll Up/Down menu to select the first character of the desired Provider Name then press the OK button to set. Repeat the process until the Provider Name is completed. A Provider Name can consist up to 16 characters.
- ◆ **Video Input** – Use the Scroll Up/Down button to select Video Input. Press the OK button to enter the Video Input menu. Use the Scroll Up/Down button to select the Video Input option: Auto Detect, HDMI, Component, or Composite. Press the OK button to set. Factory default: Auto Detect.
- ◆ **HD Bitrate** – Use the Scroll Up/Down button to select HD Bitrate. Press the OK button to enter the HD Bitrate setup menu. Use the Scroll Up/Down button to select the desire HD Bitrate ranging from 12.0~24.0 Mbps. Press the OK button to set. Factory default: 24.0 Mbps.
- ◆ **SD Bitrate** – Use the Scroll Up/Down button to select SD Bitrate. Press the OK button to enter the SD Bitrate Input menu. Use the Scroll Up/Down button to select the desire SD Bitrate ranging from 1.0~9.0 Mbps. Press the OK button to set. Factory default: 4.0 Mbps.
- ◆ **Program Number** – Use the Scroll Up/Down button to select Program Number. Press the OK button to enter the Program Number menu. Use the Scroll Up/Down button to select the desired Program Number ranging from 1 to 65534 then press the OK button to set. Factory default is 00001.
- ◆ **HDCP (Test Mode)** – Use the Scroll Up/Down button to select the HDCP menu. Press the OK button to enter the HDCP menu. Select Enable / Disable and press OK to set.

NOTE: It is the installers / property owner / integrator's responsibility to contract with the service provider regarding content authorization and the use of HDCP.
- ◆ **Closed Caption** – Use the Scroll Up/Down button to select the Closed Caption menu. Press the OK button to enter the Closed Caption menu. Select Enable / Disable and press OK to set.
- ◆ **Audio Input** – Use the Scroll Up/Down button to select Audio Input. Press the OK button to enter the Audio Input menu. Use the Scroll Up/Down button to select the Audio Input option: Auto Detect or Analog. Press the OK button to set. Factory default: Auto Detect.
- ◆ **Audio Output** – Use the Scroll Up/Down button to select Audio Output. Press the OK button to enter the Audio Output menu. Use the Scroll Up/Down button to select the Audio Output option: MPEG1 Layer2, MPEG4 AAC, AC-3. Factory default: MPEG1 Layer2. Press the OK button to set.
- ◆ **EXIT** – Select EXIT to escape the Encoder Setup Menu.

Network Setup

Default Management IP: 192.168.1.9

- ◆ **Host Name** – Use the Scroll Up/Down button to select Host Name. Press the OK button to enter the Host Name menu. Use the Scroll Up/Down button to select the first character for the desired Host Name then press the OK button to set. Repeat the process for each character in the desired Network Name. A Host Name can consist up to 15 characters. Press OK to Reboot.
- ◆ **IP Setup** – Use the Scroll Up/Down button to select IP Setup. Press the OK button to enter the IP Setup menu. Use the Scroll Up/Down button to Enable/Disable DHCP. Press the OK button to set. When selecting Enable and press OK, OK to Reboot will show and press OK to reboot for DHCP. When selecting Disable, IP Address, Subnet Mask, and Default Gateway need to be set as follows.

Note: If DHCP is enabled and the LCT-1631A is connected to a DHCP server/network, the LCT-1631A will receive an IP address from the DHCP server. If DHCP is enabled, you will not be able to set an IP address. Select DHCP disabled if Static IP Address required.

- ◆ **IP Address** – Use the Scroll Up/Down enter the desired IP Address then press the OK button to set. Repeat the process until the IP Address is completed. Press the OK button to set.
- ◆ **Subnet Mask** – Use the Scroll Up/Down button to enter the Subnet Mask. Use the Scroll Up/Down menu to select the first number of the desired Subnet Mask then press the OK button to set. Repeat the process until the Subnet Mask is completed. Press the OK button to set.
- ◆ **Default Gateway** – Press the OK button to enter the Default Gateway. Use the Scroll Up/Down menu to select the first number of the desired Gateway Address then press the OK button to set. Repeat the process until the Gateway Address is completed. Press the OK button to Reboot.
- ◆ **EXIT** – Select EXIT to escape the Network Setup Menu.

Change Password

- ◆ **Change Password** – Press the OK button to enter the Change Password menu. Use the Scroll Up/Down menu to select and modify the 4-digit Password then press the OK button to set. Default Password: 0000.

Reset to Default

- ◆ **Reset to Default** – Press the OK button reset all settings to factory default settings. Select Country, Australia or New Zealand, then press OK button to reboot.

**Caution- Once you enter this function there is no way to exit.
All parameters will be reset to factory defaults.**

Note: GUI Administration functions are not available via the LCD menu.

Use the GUI to utilize all the Admin functions available.

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