



# 1. IMPORTANT SAFETY PRECAUTIONS INFORMATION

#### READ THE FOLLOWING WARNINGS BEFORE YOU USE YOUR DEVICE

#### WARNING

The following safety precautions must be observed to prevent fire or electric shock hazard. Safety precautions include but are not restricted to the following:

# Power supply / Mains cord

- Operate the unit only within the voltage range defined as appropriate by the manufacturer.
- Occasionally check the power connector and remove dirt or dust that may have accumulated.
- Duse only the mains cord that comes with your unit.
- Do not operate the unit or plug in the mains cord if it is broken, split, or damaged in any way.
- Do not place the mains cord next to heating devices. Do not pull it, place heavy objects on it or damage it in any way. Keep it out of reach of children.
- Ensure that the device is plugged in a properly grounded socket. Insufficient grounding may cause electrocution.
- Always carefully disconnect all plugs by pulling on the plug and not on the cord.

  Make sure the unit's power switch is turned off before removing the cord from an outlet
- Disconnect the mains cord when the unit is not in use for long periods of time or during storms.
- Do not connect the unit to a multiple-outlet to avoid plug overheating.

#### Disassembling

■ This unit contains parts that cannot be repaired by the user. Do not disassemble or try to repair it as this will void all warranties. Please contact the manufacturer if you experience any problems with your unit.

## Water/humidity

- Do not keep the unit in a humid place or near water.
- Do not plug/unplug the unit with wet hands.

# micro line



#### OPERATION MANUAL v1.0 | MLH-300 |

#### Fire

- Never place a candle or another source of fire on the unit as it may fall and start a fire.
- If the mains cord or the power connector is damaged or destroyed, or if there is a sudden loss of picture during operation, or if you notice a strange smell or there is smoke, immediately switch the unit off, disconnect the mains cord and contact the manufacturer's technical support department.

#### Installation / Storage

- This unit contains high precision pieces of electronics. To ensure optimal performance and avoid damage, do not store it in any location where it may collect dirt, duct, lint, etc. Do not expose it to extreme heat or cold (e.g. in direct sunlight, near a heater or in the car during the day). Place the unit in a secure place to avoid falls.
- Defore moving the unit, always unplug all cords first.
- When installing the unit, make sure that an outlet is within easy reach. In case of malfunction, switch the unit off and unplug the power cord. When the unit is not in use for a long period of time, make sure that the mains cord is disconnected.

#### Connectivity

■ Before connecting the unit to other electronic devices, always switch off and unplug all devices.

#### Maintenance

■ Do not spill liquids on the unit. Do not use any diluents or volatile liquid to clean the unit. Instead, use a soft slightly damp cloth and allow the unit to dry completely before using again.

#### Handling

- Do not poke your finger into the openings on your unit.
- Never put paper, metal parts or other objects into the openings of your unit. If you suspect that there are foreign parts in your unit, switch it off and unplug the mains cord. Contact the manufacturer's technical support department.
- Do not step on or place heavy objects on top of the unit. To avoid hardware damage, handle all buttons, connectors and switches gently.

# micro line



OPERATION MANUAL v1.0 | MLH-300 |

#### 2. INTRO

Congratulations on purchasing the MLH-300. You now own a high quality, professional DTV headend. To get the most out of your purchase, please take the time to carefully read through this manual.

#### 3. INSTRUCTIONS

#### 3.1 - Description

The MLH-300 is a very powerful, all-in-one mini headend device, able to receive up to 2 HD signals and convert them either in 2 x DVB-T/C RF output channels or in IPTV streaming using UDP/RTP protocols multicast/unicast.

It supports "pool" technology, meaning that the user is able to select any program from any of the 2 inputs and assign them to any of the 2 RF or IP outputs providing great flexibility.

The embedded web server of the MLH-300 provides a very friendly user interface as well as the ability of remote or local control of the device via LAN.

Its small size and its powerful features render the MLH-300 the ideal solution in case we want to distribute HD content eg. coming from STBs or blue ray to a CATV installation using the DVB-T/C or IPTV technology.

#### 3.2 - Features

- 2 x HD inputs
- DHDCP v1.4 support
- 2 x RF output DVB-T/C (software selectable)
- Gbit IP streaming (up to 64 x SPTS / 4 x MPTS)
- Pool" technology
- D MER value > 42dB
- Dual power supplies offering redundancy mode
- Custom NIT/SDT
- Local or remote control via webserver
- Very friendly user interface
- Wall or rack mount options
- II SNMP v2
- DUltra-compact size
- 5-year warranty

#### 3.2.1 - Auto-reset functions and watchdog

During the normal operation of the MLH-300, the main CPU monitors all the internal parts in order to ensure that the device works normally. In case of an internal error or module failure, the MLH-300 immediately initiates the recovery procedure by resetting the appropriate module or the device. Finally, watchdog timers ensure that the device will be reset in case of CPU failure.



# 3.2.2 - "Pool" technology

The MLH-300 supports "pool" technology, meaning that the user is able to select any TV or Radio program from any input and assign it to any of the 2 outputs providing great flexibility.

# 3.2.3 - DVB-T or DVB-C compliant

The user is able to software select the modulation standard, between DVB-T and DVB-C, of the MLH-300 without the need of any firmware upgrade.

### 3.2.4 - IP streaming

The MLH-300 is able to make IP streaming of all programs coming from the 2  $\times$  HD inputs using UDP or RTP protocol in multicast/unicast IP addresses. The max. output bitrate can be up to 480 Mpbs.

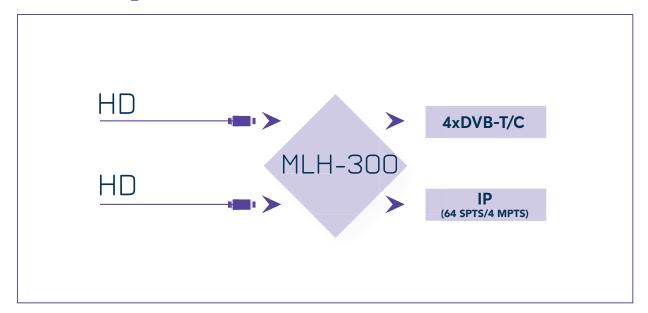
#### 3.2.5 - Custom NIT/SDT

Using the MLH-300 the user is able to create custom NIT and SDT tables according to his needs.

#### 3.2.6 - Dual power supplies

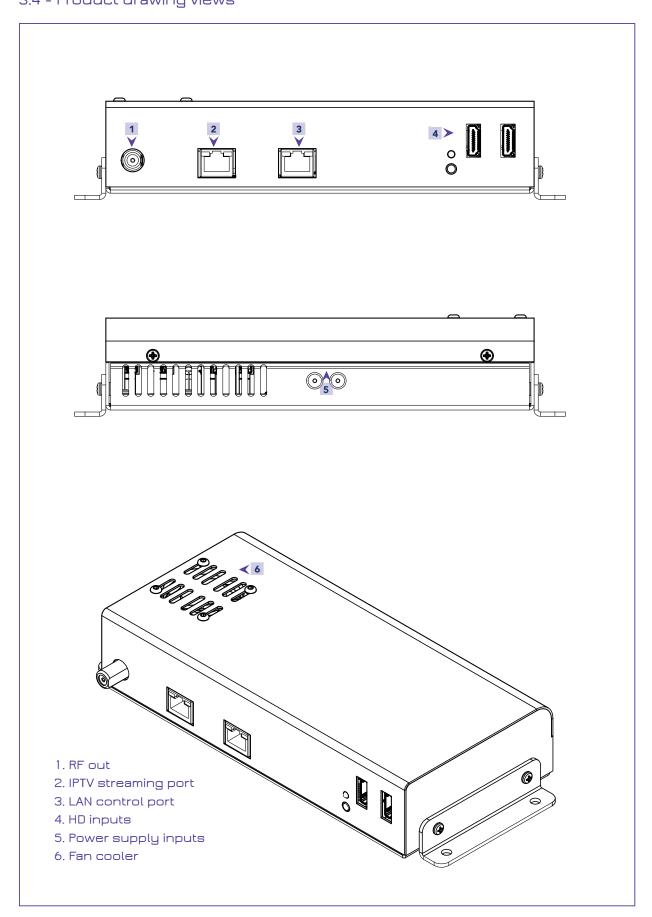
The MLH-300 is powered from one or two external power supplies of +12VDC/2.5A. In case we connect two external power supplies then they will work in redundancy mode. Thus, in case of failure of one of the two external power supplies the device will continue working without stoping.

#### 3.3 - Block Diagram





# 3.4 - Product drawing views



**Lewco** 



# Lenco

#### 4. INSTALLATION

#### 4.1 - General

The MLH-300 has a very friendly interface for programming and monitoring purposes. The user is able to gain access to the embedded webserver, by opening an Internet browser (e.g. Internet Explorer, Firefox or Chrome) and type the following static IP: 192.168.1.205.

The default username and password are the following:

Username: admin Password: 12345

### 4.2 - Embedded Webserver

#### Status

# 4.2.1 - "General" page

Every time that the user is connected to the device, the "General" page (Figure No 1) is loaded providing a current general status information of the device.



Figure No 1

#### Status - Inputs 1...2

In these fields, the user is able to see the status of each HD input e.g. if the H.264 encoder is running or if it is in idle state, its Service name, its Service ID, video/audio PID and LCN number.



#### Outputs - Modulator 1...2

In these fields, the user is able to see the status of all the RF outputs of the device such as modulator's state, RF output frequencies and modulation settings.

#### System

This section provides general information of the device, like internal status of all device's modules, CPU temperature and fan state as well as error codes for troubleshooting purposes.

# 4.2.2 - "Program list" page

In "Program list" page (Figure No 2) the MLH-300 provides information of all programs that are currently being distributed via its two RF and IP outputs.

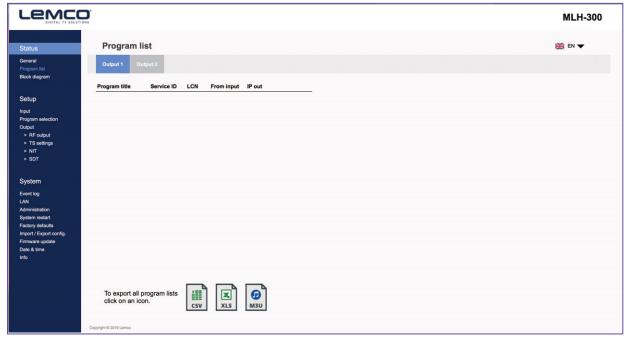


Figure No 2

At the same time, the device offers the whole channel list to be exported under the follow file types:

- Description Excel All the program list is exported in .xlsx format
- CSV All the program list is exported in .csv format
- M3U All the program list is exported in .m3u

#### 4.2.3 - "Block diagram" page

The "Block diagram" page (Figure No 3) provides a general view of device's internal modules and architecture.

All icons are clickable providing the ability to the user to go directly to the setup page of all internal modules of the device. The grey icons mean that the current module is disabled.





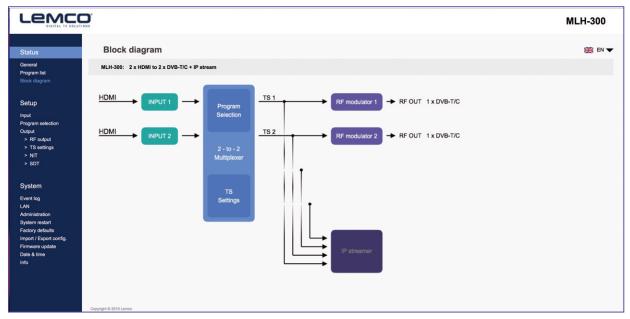


Figure No3

# Setup

# 4.2.4 "Input" page

In the "Input page" (Figure No 4) the user is able to setup each HD input independently.

There are two tabs including all the 2 HD inputs. For each tuner the user needs to program the following fields:

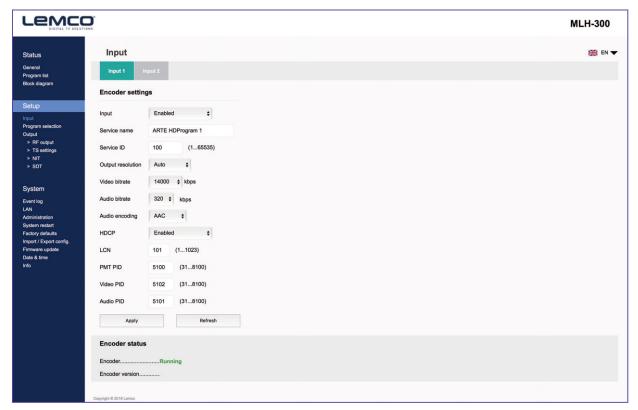


Figure No 4



- 1. Input Enabled/Disabled Enable or disable the specific HD input
- 2. Service Name Insert the preferred service name
- 3. Service ID Insert the service ID number
- 4. Video Bitrate Set the video bitrate (2000-19000 Kbps)
- 5. Audio Bitrate Set the audio bitrate (64,96,128,192,256,320 Kbps)
- 6. Audio encoding Set the audio encoding (AAC, AC3, MPEG2)
- 7. HDCP Enable/disable the HDCP function
- 8. LCN Set the LCN number
- 9. PMT PID Set the PMT PID
- 10. Video PID Set the Video PID
- 11. Audio PID Set the Audio PID

Once all settings are being written, the user must click the "Apply" button for the settings to be saved.

#### **Encoder status**

For each HD input the MLH-300 provides its current state e.g. if it is running or if it is in idle state.

# 4.2.5 - "Program Selection" page

In the "Program Selection" section (Figure No 5) the user is able to select any program from any input and assign it to any output using the "pool" technology.

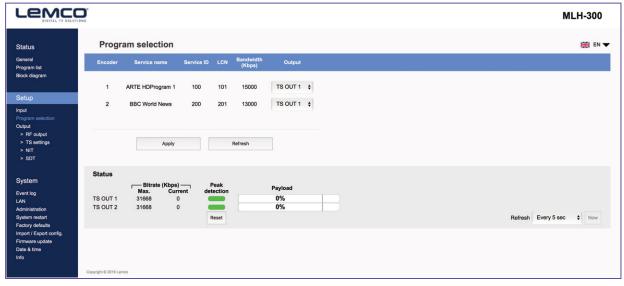


Figure No 5

This page depicts all programs coming from the 2x HD inputs and their settings.

■ Service Name – which is the name of the program

- Service ID which is the Service ID number of the program
- LCN No which is the logic channel number of the program

For each program the MLH-300 provides the following information:

■ Dandwidth - which is the bitrate of the program





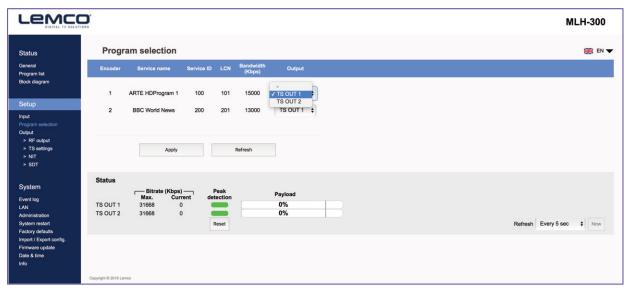
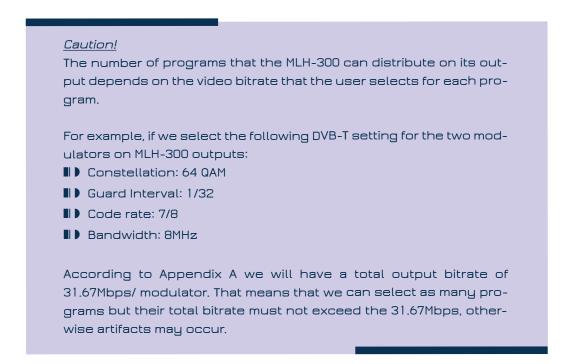


Figure No 6

Using the Drop down menu from "Output" column (Figure No 6) the user is able to assign any program to any of the two outputs. By doing the same process for each program, from all inputs the user is able to create the two custom multiplexes in device's output.



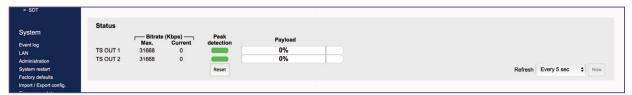


Figure No 7



LEMILU

DIGITAL TV SOLUTIONS

The status section in (Figure No 7) provides a general idea to the user of the current payload (according to the selected programs) comparing to the max. output payload. It is recommended that the user must not exceed the 85% from each output, since all the bitrate are variable according to their specific content.

#### **Peak Detection mechanism**

As shown in Figure No 7 there is a colored indicator of the peak detection mechanism, for each output transport stream. This indicates if any overflow has occurred on modulator's output bitrate with the following colors:

- Green No overflow occurred
- ▶ Yellow No overflow occurred but the input bitrate is close to the output bitrate
- Red Overflow occurred. The user must decrease the input bitrate

# 4.2.6 - "RF Output" page

In the "RF Output" page (Figure No 8) the user is able to setup the RF output settings of the MLH-300.

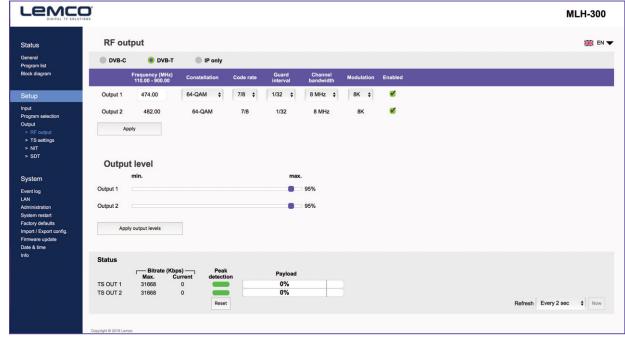


Figure No 8

# micro line



#### OPERATION MANUAL v1.0 | MLH-300 |

RF outpu	ut			
DVP C	BVB T	ID only		

With the use of the radio buttons the user is able to select the mode that the MLH-300 will operate as follows:

DVB-T: 2 x modulator working in DVB-T standard

DVB-C: 2 x modulator working in DVB-C standard

IP only: All modulators are disabled, the device does IP streaming only

For each modulator in DVB-T mode the user is able to setup the following parameters:

- ■ Frequency The output frequency of the first modulator\*
- Constellation The constellation of the first modulator\*
- D Code Rate The coder rate of the first modulator\*
- ■ Guard Interval The guard interval of the first modulator\*
- Channel Bandwidth The channel bandwidth of the first modulator\*
- ■ Modulation The modulation type of the first modulator\*
- ■ Enable/Disable Enable or disable the current modulator
- Output level Adjust the output level for each modulator from 70-90dBµV.
- \* All the two outputs of the MLH-300 operate in adjacent RF output channels. This means that the user setups only the first modulator and all the other three modulators have the same settings and automatically are being program in adjacent channels.

E.g. If the user sets the CH21 in UHF band on modulator No1 the other three modulators will be automatically set to CH22, CH23 and CH24, respectively.

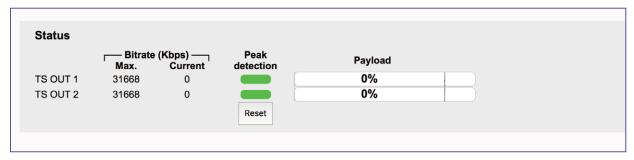


Figure No 9

The status section in (Figure No 9) provides a general idea to the user of the current payload (according to the selected programs) comparing to the max. output payload. It is recommended that the user must not exceed the 85% from each output, since all the bitrate are variable according to their specific content.



# 4.2.7 - "IP streaming" page

In "IP streaming" section the user is able to setup the IP streamer of the device.

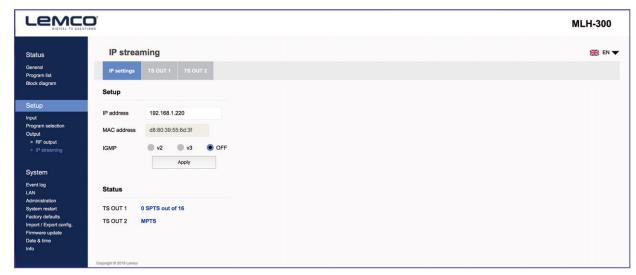


Figure No 10

In Figure No 10 we have general settings of the IP streamer as follows:

- II IP address: This is the IP address of the streamer for ping purposes.
- MAC address: This is the MAC address of the streamer
- II IGMP: The user is able to select IGMP v2 or v3 or disable the IGMP.

The Status section provides a general view of how many programs and in what format are currently being streamed from the device is its two outputs.



Figure No 11





In order to setup the IP address for each program there are two tabs one for each IP output of the MLH-300.

By selecting e.g. the TS1 tab (Figure No 11) the user is able to setup the IP streamer for this specific output, following the steps below:

1st step: Select SPTS or MPTS streaming mode.

SPTS mode: Means that each program has its own IP

MPTS mode: Means that all the programs of the current output (e.g.

TS1) will be streamed in a single IP.

2nd step: For each program (in SPTS mode) or for the whole TS (in MPTS mode)

the user is able to assign a multicast IP address from 224.0.0.0 to 239.255.255.255 or a unicast IP address as well as its destination port

and protocol (UDP or RTP).

By repeating the above procedure for all two outputs of the MLH-300, the user is able to setup the IP streamer of the device.

# 4.2.8 - "TS settings" page

In this section (Figure 12), the user is able to setup all the TS settings of the two multiplex in MLH-300's output.

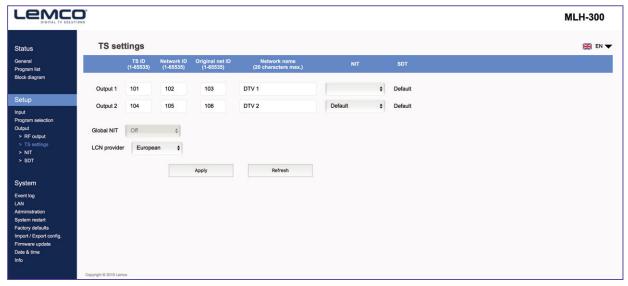


Figure No 12





rewco

For each multiplex output the user can setup the following settings:

TS ID: Which is the ID No of the specific multiplex (1...65535)

Net ID: Which is the Net ID No of the specific multiplex (1...65535)

Original Net ID: Which is the Org. Net ID No of the specific multiplex (1...65535)

Network Name: Which is the network name of the specific multiplex

NIT: Choose from Basic, Default and Custom

LCN provider: Choose the appropriate LCN provider (EACEM, ITC, Nordig, APN)

# 4.2.9 - "NIT" page

In this section (Figure 13), the user is able to create custom NIT table for each of the two outputs of the device. Moreover, this section offers the ability to export / import a NIT table.

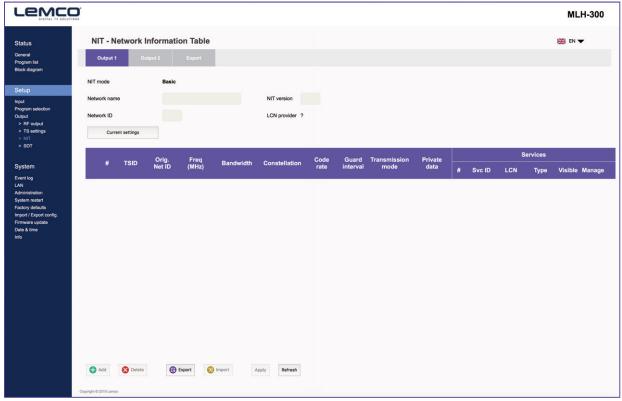


Figure No 13

For more information on how to create a custom NIT table please refer to "Lemco NIT creation guidelines.pdf" document in Lemco's website..



# Lemco DIGITAL TY SOLUTIONS

# 4.2.10 - "SDT" page

In this section (Figure 14), the user is able to create custom SDT table for each of the two outputs of the device. Moreover, this section offers the ability to export / import a SDT table.

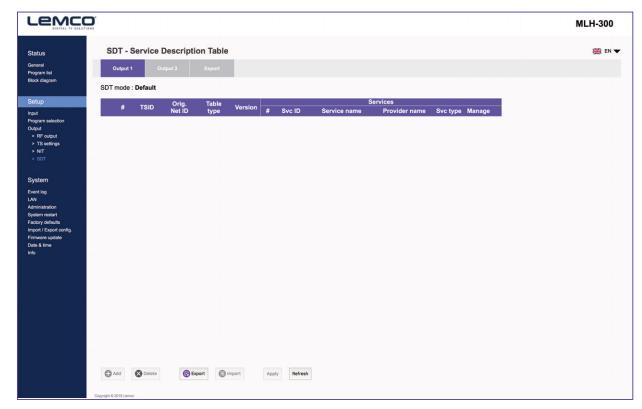


Figure No 14

For more information on how to create a custom SDT table please refer to "Lemco SDT creation guidelines.pdf" document in Lemco's website.

# System

# 4.2.11 - "Event log" page

In "Event log" page (Figure No 15) the system logs all the events occurs in the device during its operation. These logs are divided in three different categories based on their priority as follow:

High Using the red color the system logs the events which are of high priority.Medium Using the orange color the system logs the events which are of medium priority.

**Low** Using the red color the system logs the events which are of low priority.







Figure No 15

The user has the ability to select which kind of events to display as well as the device gives the opportunity to export these logs as follow:

- D Excel All the program list is exported in .xlsx format
- $\blacksquare$   $\blacksquare$  CSV All the program list is exported in .csv format

# 4.2.12 - "LAN" page

In "LAN" page (Figure No 16) the user is able to setup all the parameters of the LAN control of the device as follows:

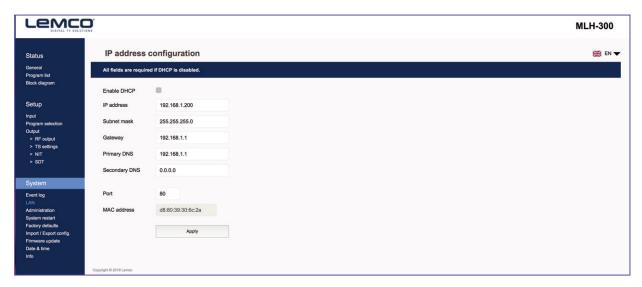


Figure No 16





- DHCP Enable or disable DHCP
- ▶ IP address: Set a static IP address for controlling the device
- D Subnet mask: Set the specific Subnet mask
- D Gateway: Set the gateway's IP address
- Primary DNS: Set the IP address of the primary DNS
- D Secondary DNS: Set the IP address of the secondary DNS
- Port: Assign the control port
- MAC address: Depicts the MAC address of the LAN control

# 4.2.13 - "Administration" page

In "Administration" section (Figure No 17) the user is able to change the default password of the webserver.

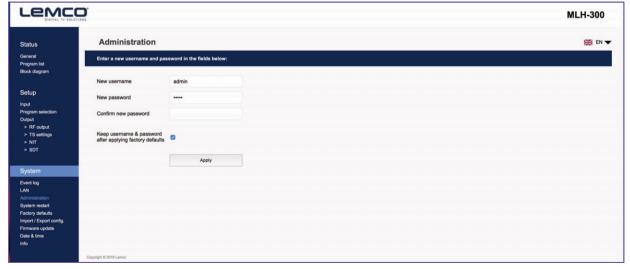


Figure No 17

## Caution!

In case of factory default procedure, the username and password will be reset unless we select the check box "Keep username & password after applying factory defaults".



# LEMCO

# 4.2.14 - "System restart" page

In "System restart" section (Figure No 18) the user is able to apply a full reset to the device.



Figure No 18

# 4.2.15 - "Factory default" page

In "Factory default" section (Figure No 19) the user is able to apply a factory default reset either as DVB-T or DVB-C..



Figure No 19



# 4.2.16 - "Import/Export Config" page

In "Import/Export Config" section (Figure No 20) the user is able to do the following:

- 1. Export: Save all the configuration is a specific file
- 2. Import: Upload a previously save configuration file.



Figure No 20

# 4.2.17 - "Firmware update" page

In "Firmware update" (Figure No 21) section the user is able to upload a new firmware update using the appropriate file..



Figure No 21



# 4.2.18 - "Date & Time" page

In "Date & Time" (Figure No 22) section the user is able to select the NTP server in order for the device to receive the date and time as well as to set the timezone of his country.

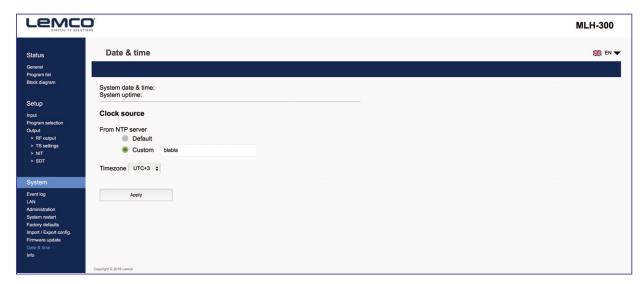


Figure No 22

# 4.2.19 - "Info" page

In "Info" (Figure No 23) section the user is able to see the serial No of the device as well as firmware and hardware versions.

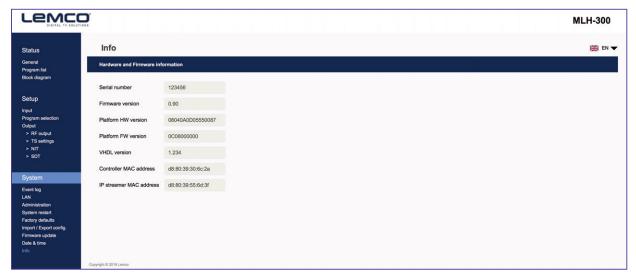


Figure No 23

# micro line



## OPERATION MANUAL v1.0 | MLH-300 |

# LEMCO°

#### 5. TECHNICAL SPECIFICATIONS

## Input Specifications

#### **HD Input**

Type 2 x HD inputs

Video coding MPEG-4 AVC / H.264
Profile High profile 4.0

Output resolution Up to 1920 x 1080 - 30p

HDCP support Yes, v1.4

#### **Audio**

Audio HD

Standard MPEG-1 Layer II

Audio Bit Rate 64, 96, 128, 192, 256, 320 Kbps

Format MPEG2, AAC, AC3

#### H.264 encoder

Standard MPEG-4 AVC / H.264
Bit Rate 1 – 19 Mbps adjustable
Configurable Parameters Service Name, Service ID

LCN processing Yes

# **Output Specifications**

# **DVB-T**

Bandwidth 5, 6, 7, 8 MHz Mode 2K, 8K

 Constellation
 QPSK, 16QAM, 64QAM

 Guard Interval
 1/4, 1/8, 1/16, 1/32

 Code Rate
 1/2, 2/3, 3/4, 5/6, 7/8

# **DVB-C**

Bandwidth 5, 6, 7, 8 MHz

Mode 2K, 8K

Constellation 16QAM, 32QAM, 64QAM, 128QAM,

256QAM

Symbol Rate 1-7.2 Ms/s

#### **RF Output**

Type 2 x RF out in adjacent channels

Output Frequencies 110...950MHz (1 Hz step)

 $\begin{array}{lll} \text{Output Level} & 90\text{dB}\mu\text{V} \\ \text{Connector} & 75\Omega - \text{F, female} \\ \text{Output Attenuator} & 0...-20\text{dB} \\ \text{MER} & >42\text{dB} \end{array}$ 

Output loop-through loss <1dB





**Transport Stream Processing** 

Services User selection by service names **Automatic Regeneration** PAT, CAT, SDT, PMTs, EITs tables

NIT/SDT Pass-through, Custom, Automatic

**PCR** re-stamping Yes

LCN support

**IP Streaming** 

**IP TS Out** Yes

Protocol UDP / RTP (Multicast/Unicast) Speed 1Gbit (480 Mbps in IP only mode)

**IGMP** support Yes, v2, v3

MPTS (up to 2 TS) Type

SPTS (up to 2 HD programs)

Max. Bitrate 480Mbps max.

**Programming Interface** 

Ethernet webserver Yes, embedded webserver

Speed 10/100 Mbps

Connector RJ45

Browser compatibility Chrome, Firefox, Safari, Opera, Edge etc.

(Must support HTML v5.0)

SNMP support Yes SNMP version v2.0

General

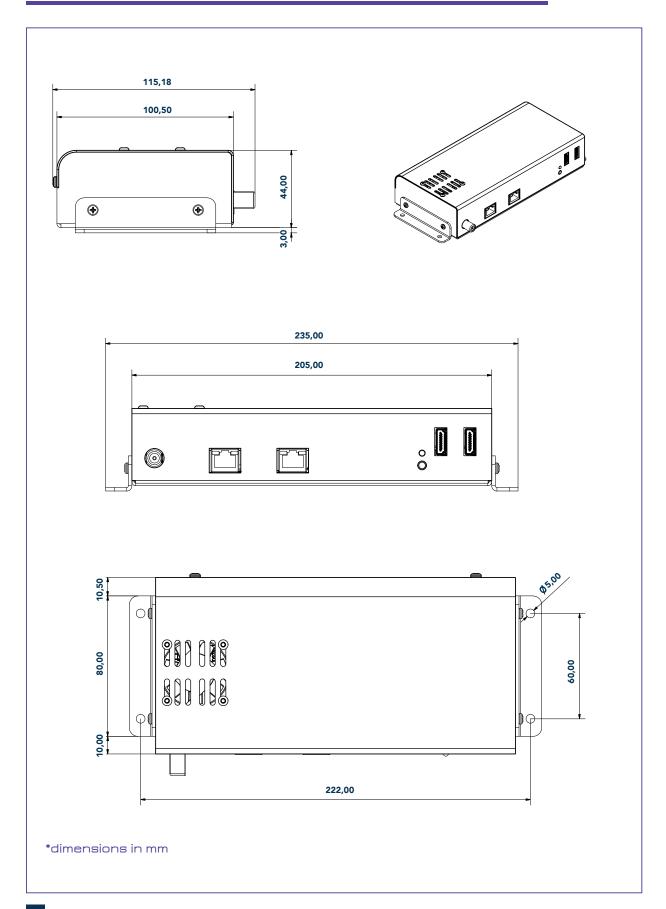
2 x +12VDC **Power Supply** Power supply consumption 1.4A max. 0 °C to 40 °C Operating Temperature Storage Temperature -10 °C to +70 °C Humidity Up to 90% **Dimensions** 235 x 115 x 48 mm

Weight 0.45 Kg



# **LEMCO**

# 6. DIMENSIONS





# **LEMCO**

#### 7. LEMCO LIMITED WARRANTY

This Lemco unit is guaranteed against defects in workmanship and materials for a period of five (5) years beginning on the date of purchase of the product. During the applicable warranty period, Lemco will repair or replace at our sole option, without charge, any defective component part of the purchased unit. The unit is to be delivered packed in adequate packing AFTER an authorization for return has been received.

The owner's responsibilities are to use the instrument in accordance with its written instructions, to provide transport to and from our facilities in the event service is required, and to provide proof of purchase if requested.

# Our warranty does not cover any problem resulting from:

- accident; abuse; neglect; shock; electrostatic discharge; heat or humidity beyond product specifications; improper installation, operation, maintenance or modification
- (b) any misuse contrary to the instructions in the user manual
- (c) malfunctions caused by other equipment.

#### WARNING!!

Our limited warranty is considered void if a product is returned with removed, damaged or tampered labels or any alterations (including removal of any component or external cover) carried out by unauthorized personnel.

#### **OUT OF WARRANTY SERVICING**

We repair and service units of our production even once the warranty has expired, if this is economically the best solution to the customer.

The mechanical and electronic spare parts are replaceable for a five-year period after production when the circuits are assembled with discrete components. When integrated circuits are used, the supply of spare parts is guaranteed up to the depletion of our stock and, depending on the possibility of procuring them on the worldwide market.

To avoid any unnecessary loss of time, it is very important that the instrument be returned to our premises accompanied by a proper delivery note, duly completed with all the required information, as per the legal dispositions currently enforced.



# 8. WARNINGS

## **Content warning**

This document contains preliminary information about a product of Lemco company. Lemco reserves the right to make any changes or modifications at any time without prior notice.

## APPENDIX A

DVB-T bitrates (Mbit/s) for **8 MHz** bandwidth (non-hierarchical systems)

Modulation	Coding Rate	Guard Interval			
		1/4	1/8	1/16	1/32
QPSK	1/2	4.976	5.529	5.855	6.032
	2/3	6.635	7.373	7.806	8.043
	3/4	7.465	8.294	8.782	9.048
	5/6	8.294	9.216	9.758	10.053
	7/8	8.709	9.676	10.246	10.556
16-QAM	1/2	9.953	11.059	11.709	12.064
	2/3	13.271	14.745	15.612	16.086
	3/4	14.929	16.588	17.564	18.096
	5/6	16.588	18.431	19.516	20.107
	7/8	17.418	19.353	20.491	21.112
64-QAM	1/2	14.929	16.588	17.564	18.096
	2/3	19.906	22.118	23.419	24.128
	3/4	22.394	24.882	26.346	27.144
	5/6	24.882	27.647	29.273	30.160
	7/8	26.126	29.029	30.737	31.668



DVB-T bitrates (Mbit/s) for 7 MHz bandwidth (non-hierarchical systems)

Modulation	Coding Rate	Guard Interval			
		1/4	1/8	1/16	1/32
QPSK	1/2	4.354	4.838	5.123	5.278
	2/3	5.806	6.451	6.830	7.037
	3/4	6.532	7.257	7.684	7.917
	5/6	7.257	8.064	8.538	8.797
	7/8	7.620	8.467	8.965	9.237
16-QAM	1/2	8.709	9.676	10.246	10.556
	2/3	11.612	12.902	13.661	14.075
	3/4	13.063	14.515	15.369	15.834
	5/6	14.515	16.127	17.076	17.594
	7/8	15.240	16.934	17.930	18.473
64-QAM	1/2	13.063	14.515	15.369	15.834
	2/3	17.418	19.353	20.491	21.112
	3/4	19.595	21.772	23.053	23.751
	5/6	21.772	24.191	25.614	26.390
	7/8	22.861	25.401	26.895	27.710

# DVB-T bitrates (Mbit/s) for **6 MHz** bandwidth (non-hierarchical systems)

Modulation	Coding Rate	Guard Interval			
		1/4	1/8	1/16	1/32
QPSK	1/2	3.732	4.147	4.391	4.524
	2/3	4.976	5.529	5.855	6.032
	3/4	5.599	6.221	6.587	6.786
	5/6	6.221	6.912	7.318	7.540
	7/8	6.532	7.257	7.684	7.917
16-QAM	1/2	7.465	8.294	8.782	9.048
	2/3	9.953	11.059	11.709	12.064
	3/4	11.197	12.441	13.173	13.572
	5/6	12.441	13.824	14.637	15.080
	7/8	13.063	14.515	15.369	15.834
64-QAM	1/2	11.197	12.441	13.193	13.572
	2/3	14.929	16.588	17.564	18.096
	3/4	16.796	18.662	19.760	20.358
	5/6	18.662	20.735	21.995	22.620
	7/8	19.595	21.772	23.053	23.751



# micro line



OPERATION MANUAL v1.0 | MLH-300 |

9. NOTES	





# **Contact Information**

Lemco IKE

Tel: +30 210 2811401 Latheas 46 - 13678 Athens - Greece Fax: +30 210 2825755 www.lemco.tv Email: info@lemco.gr