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- Luna-U Commands List

Luna-U Commands List

ASCII Commands (Luna U 1.2.1)

This is the list of ASCII Commands supported by this device. An ASCII command always follows the same structure:

```
#|Destination|Source|Type^Target^Command|Arguments|CRC|CRLF
```

This format uses 3 separator characters for different levels of separating each value in the message:

- Message separator '|':
This separates a message into 7 blocks (if you include the start '#' and end <CRLF>)
- Block separator '^':
This splits a block into logical elements. This is used to split the command in the message type, 'command' and 'target'
- Value separator '>':
This splits up a logical single value in their primitives, for example: a target consists of a channel type and a channel index, split by '>'

Messages are Case sensitive, if the example shows the text in uppercase, this should always be uppercase!

Destination

The target device. This consists of 2 parts: **Device>Address**.

Device

This is the device type: **LUNA_U**

Address

This is the user-configurable device address, default: **1**. You can also leave this field empty, this results in all Luna U devices that receive this command to respond.

Examples	Destination
default destination	LUNA_U>1
broadcast to all Luna U devices	LUNA_U

Device Matching

If the device type or address does not match, the message will be ignored. Device Address 0 is a special address and will always match (this can be seen as a broadcast)

Destination	Device address: LUNA_U>2	Remarks
LUNA_U>2	Destination Matches Device	this is an exact match
LUNA_U>1	Message ignored	the destination address does not match
LUNA_U	Destination Matches Device	the destination address will always match
LUNA_U>0	Destination Matches Device	Equivalent to LUNA_U
CLIENT>2	Message ignored	the device type does not match
CLIENT	Message ignored	the device type does not match

Source (optional)

The source address is optional when sending, but the device will always fill this field with its own address.

Examples	sent message	response message LUNA_U>2
broadcast to a Luna U	# LUNA_U ... <CRLF>	# LUNA_U>2 ... <CRLF>
send to a specific Luna U	# LUNA_U>2 ... <CRLF>	# LUNA_U>2 ... <CRLF>
use a source address in the request message	# LUNA_U CLIENT>1 ... <CRLF>	# CLIENT>1 LUNA_U>2 ... <CRLF>

Type

The type explains what the message wants to do. There are 3 supported message types:

Type	From	To	Explanation
SET_REQ	CLIENT	Luna U	Change a setting in the Luna U
GET_REQ	CLIENT	Luna U	Request the current status of a setting in the Luna U
GET_RSP	Luna U	CLIENT	Response to either a GET_REQ or SET_REQ, if the request was valid

Command, Target, Arguments

These 3 parameters are explained together, because they influence each other. The command dictates the meaning of the argument, while the target distinguishes which exact setting you want to change. the target can also influence the valid range of the argument.

Some commands (like the mixer) can have a range arguments (for the mixer: all mixer volumes are an individual argument). In this case, the argument looks like: `idx>val1[^idx2>val2]`, where the part in between the brackets `[]` can appear 0 or more times.

- idx, idx2, ...: the argument index
- val, val2, ...: the value at the specified index

VOLUME

Set a single Volume in dB

Argument (volume)

the requested Volume in dB

change the routing of a zone

Argument (input)

the input that is selected in that zone. -1 = Mixed (not settable), O = OFF, 1 = input 1 ,...

Target	Argument	Example (default value)
ZONE>1>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>1^MIXER>1^ROUTE 0 U <CRLF>
ZONE>2>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>2^MIXER>1^ROUTE 0 U <CRLF>
ZONE>3>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>3^MIXER>1^ROUTE 0 U <CRLF>
ZONE>4>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>4^MIXER>1^ROUTE 0 U <CRLF>
ZONE>5>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>5^MIXER>1^ROUTE 0 U <CRLF>
ZONE>6>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>6^MIXER>1^ROUTE 0 U <CRLF>
ZONE>7>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>7^MIXER>1^ROUTE 0 U <CRLF>
ZONE>8>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>8^MIXER>1^ROUTE 0 U <CRLF>
ZONE>9>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>9^MIXER>1^ROUTE 0 U <CRLF>
ZONE>10>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>10^MIXER>1^ROUTE 0 U <CRLF>
ZONE>11>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>11^MIXER>1^ROUTE 0 U <CRLF>
ZONE>12>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>12^MIXER>1^ROUTE 0 U <CRLF>
ZONE>13>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>13^MIXER>1^ROUTE 0 U <CRLF>
ZONE>14>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>14^MIXER>1^ROUTE 0 U <CRLF>
ZONE>15>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>15^MIXER>1^ROUTE 0 U <CRLF>
ZONE>16>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>16^MIXER>1^ROUTE 0 U <CRLF>
ZONE>17>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>17^MIXER>1^ROUTE 0 U <CRLF>
ZONE>18>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>18^MIXER>1^ROUTE 0 U <CRLF>
ZONE>19>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>19^MIXER>1^ROUTE 0 U <CRLF>
ZONE>20>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>20^MIXER>1^ROUTE 0 U <CRLF>
ZONE>21>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>21^MIXER>1^ROUTE 0 U <CRLF>
ZONE>22>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>22^MIXER>1^ROUTE 0 U <CRLF>
ZONE>23>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>23^MIXER>1^ROUTE 0 U <CRLF>
ZONE>24>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>24^MIXER>1^ROUTE 0 U <CRLF>
ZONE>25>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>25^MIXER>1^ROUTE 0 U <CRLF>
ZONE>26>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>26^MIXER>1^ROUTE 0 U <CRLF>
ZONE>27>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>27^MIXER>1^ROUTE 0 U <CRLF>
ZONE>28>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>28^MIXER>1^ROUTE 0 U <CRLF>
ZONE>29>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>29^MIXER>1^ROUTE 0 U <CRLF>
ZONE>30>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>30^MIXER>1^ROUTE 0 U <CRLF>
ZONE>31>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>31^MIXER>1^ROUTE 0 U <CRLF>
ZONE>32>MIXER>1	min: -1, max: 24	# LUNA_U>1 SET_REQ^ZONE>32^MIXER>1^ROUTE 0 U <CRLF>

MUTE

mute an audio channel

Argument (enabled)

is the audio channel muted

Argument (volume)

mixing volume

