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Introducing the LU300S

LU300S Family Members

The LU300S Family is based on the LU300S, a small-sized, cost-effective and reliable HEVC encoder, enabling broadcasters and other content creators to transmit high-quality video on the go.

With LiveU's professional-grade hardware HEVC technology at its core, the LU300S combines high-quality video performance with extreme bandwidth efficiency. Content creators can provide the same video quality as H.264 while using about half the bandwidth. In cases where original H.264 bitrate is maintained, the LU300S HEVC offers greatly improved video quality.

The LU300S family comes in two variants:



Model	Description	
LU300S	The LU300S supports four 5G / 4G cellular links, (two of them internal), a WiFi link and one Ethernet link. It can connect to most commercially available cameras via HDMI or SDI and comes with an easy-to-use user interface.	
LU300Se	The LU300Se is the most cost-effective contribution HEVC video encoder on the market, enabling streaming for web distribution, point to point, and point to multi-point for a fraction of the cost of other solutions. Physically, the LU300Se is almost identical to the LU300S, the only difference being that it does not contain internal modems, thus saving on cost, weight and physical space.	



Note

The difference between the LU300S and the LU300Se

The main operational difference between the LU300S and the LU300Se is that the LU300Se does not include any internal **cellular** modules and is thus lighter than the LU300S. Beyond this, they are essentially the same, with the same GUI, functionality and method of operation.

LU300S Accessories

LU300S Camera Mount Options



LU300S Camera Mount Configuration

LiveU provides different camera mount options for applications that require the unit to be physically connected to your camera during operation. If you are interested in this sort of configuration then when ordering your LU300S hardware, don't forget to mention the kind of battery interface your camera uses, V-Mount or Anton Bauer.

Tally Light

The LiveU Tally Light provides live cue signaling whenever your feed is on-air, ensuring professionally-produced and smoothly-run live broadcasts from anywhere. Your LU300S supports the Tally Light.

What's in the LU300S Box?

Check that your LU300S box contains the following items:

- LU300S portable video uplink unit
- LU300S carrying pouch with elastic strips
- AC/DC power adapter (16V/4A) 2.1mm RA (1.5m) and power cord
- The following cables:

- BNC to BNC (1.5m)
- USB2/M Left-angle to USDB2/F (14cm)
- USB2/M Right-angle to USDB2/F (14cm)
- LiveU Limited Warranty card

LU300S Hardware Overview



LU300S – Right Side Panel



LU300S – Left Side Panel

The LU300S provides two internal cellular modems, as well as WiFi and Ethernet interfaces. In addition, two external cellular modems can be connected via USB for a total of six network interfaces on the unit.



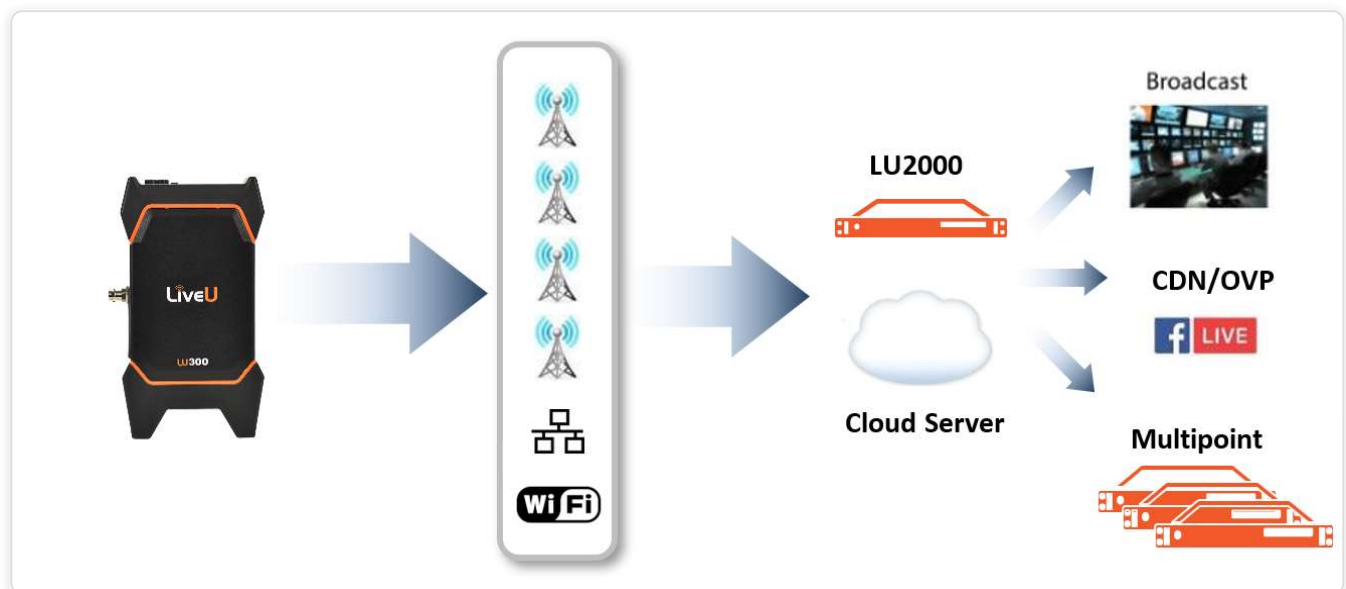
Note

Up to 6 additional network interfaces are available when connecting the LU300S to the LiveU Xtender via the Ethernet connector.

LU300S Operation

Overview

As the LU300S powers up, it dials (connects) its modems, connects the WiFi / Ethernet interfaces to their respective networks and combines all available bandwidth into a single consolidated broadband uplink connection. The LU300S can then encode incoming video into an HEVC stream and transmit this stream over the aggregated bandwidth.



Architecture of LU300S Operation

Your LU300S, as well as any LU2000 that's part of your organization, can be controlled and configured using [LiveU Central](#).

LU300S Front Panel

The LU300S front panel contains the unit's LCD screen, a JOG joystick, a Back/Prev button and the unit's Power/Play button.



LU300S Menu Navigation and Operation

The LU300S uses a **JOG** joystick, the **Back/Prev** Button and the **Power/Play** button to navigate through the on-screen GUI.

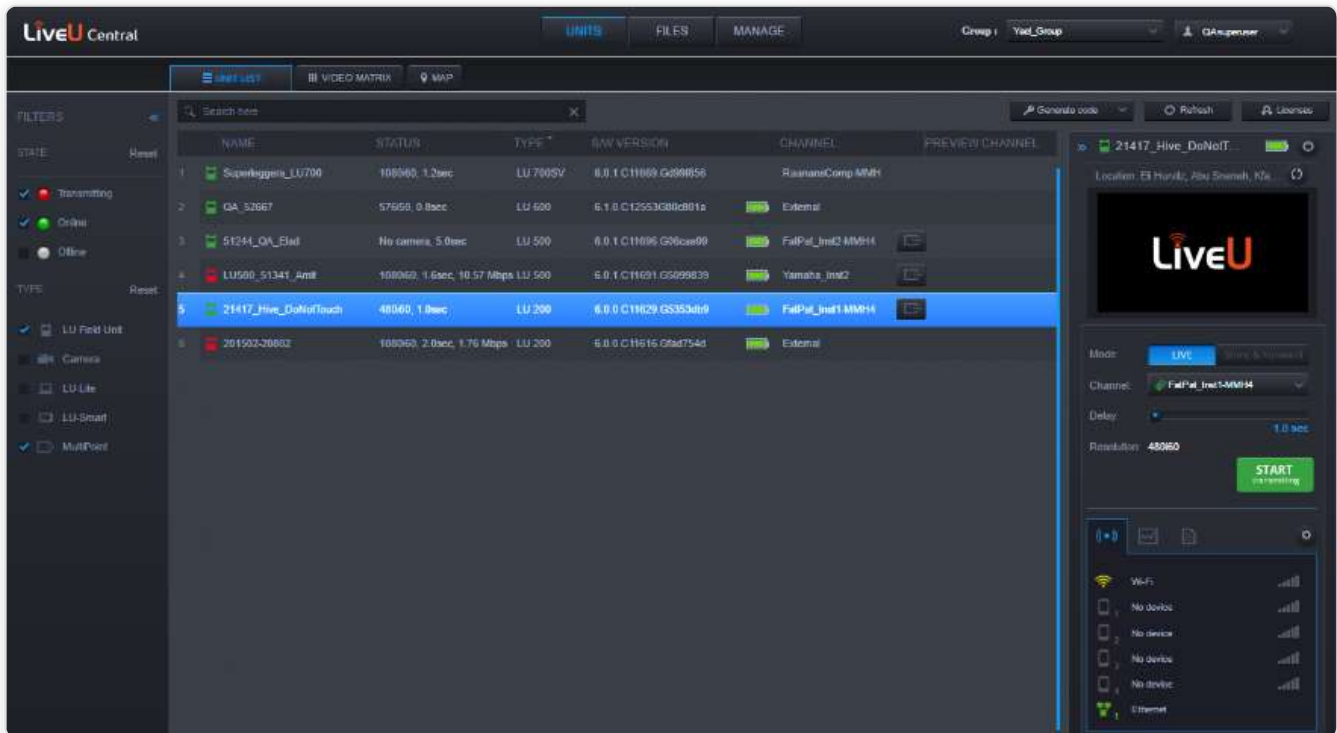
- Pressing the **JOG** button from the *Home* screen will open the *Main* menu.
- Once you have a menu on-screen, move the selection bar up and down by turning the **JOG** to highlight the item of interest, pressing the **JOG** button to confirm your selection.
- Press the **Back/Prev** button to go back a step (to the previous menu etc.)
- The **Power/Play** button is used to toggle between starting and stopping streaming on the unit and is also used to turn the unit on and off.

LiveU Central

Overview: User Interface

LiveU Central is a web interface that lets you access any LU unit you have, including the LU300S. LiveU Central allows you to view an LU300S's status and to remotely configure it as well as any MMH instance (running on the LU2000 server). LiveU Central runs in any modern web browser such as Google Chrome, Internet Explorer or Firefox.

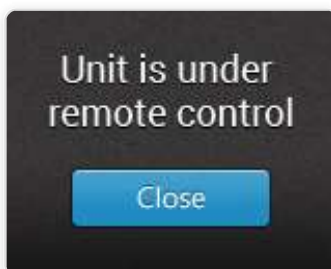
Each LiveU Central user is assigned permission to manage and control a specific group of LiveU units.



LiveU Central

Remote Control Message

When using LiveU Central for configuring the LU300S or to start transmitting from it, the message **Unit is under Remote Control** is displayed on the unit's screen. The unit remains under remote control until it is released by the LiveU Central user.



LU300S Remote Control screen

This screen provides the LU300S user with an indication that the unit is/was controlled remotely (and possibly that its configuration was changed). The user can press the **JOG** button at any time to remove this message without affecting the remote control.

Once LiveU Central releases control of your unit, the remote-control screen continues to remain displayed until you press the **JOG** button.



Note

An LU300S user cannot stop the unit from being remotely controlled.

See the *LiveU Central User Guide* for more detailed information.



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