

LiveU Situational Awareness Solution for Fire Fighters



Global Scale, Local Knowledge 150+ Countries and Growing



Main HQ

- New Jersey, USA
- Israel

Regional Offices

- UK
- Australia
- Spain
- Japan

Additional LiveU points of presence

EU: Germany, France, Romania

Middle East: UAE

Africa: South Africa, Kenya

APAC: Hong Kong, India, Singapore, China,

Philippines

Latin America: Colombia





120+ partners across the globe







5,000+ Customers from Every Vertical & Growing

PUBLIC SECTOR



















NEWS





















SPORTS



















ENTERPRISE















EDUCATION







LRTLiveU Reliable Transport

A video and audio delivery protocol developed over the past two decades by LiveU. LRT™ ensures rock-solid reliability over **cellular** and other IP networks.

LRT™ advantages

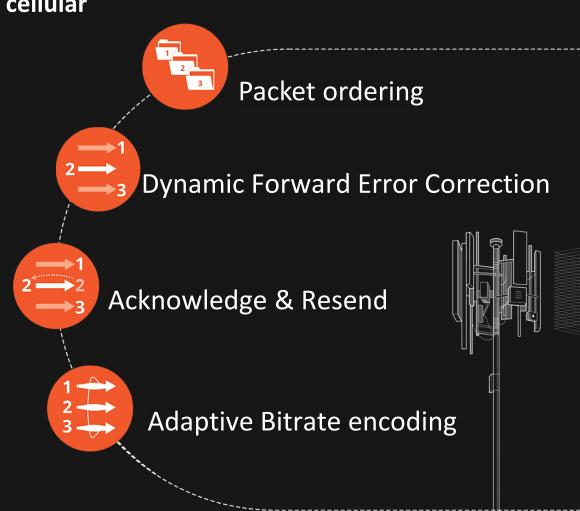
Dynamic network awareness

LRT™ continuously monitors network fluctuations and automatically compensates, maintaining a resilient live stream regardless of inevitable instability of network connections.

A tight protocol-encoder integration

Due to the unique integration between LRT™ and all LiveU encoders, as bandwidth changes, LRT™ dynamically adjusts the video encoder's bitrate, optimizing the stream for the available bandwidth.

This ensures that data isn't overloaded, minimizing buffering and maintaining the best possible stream quality.



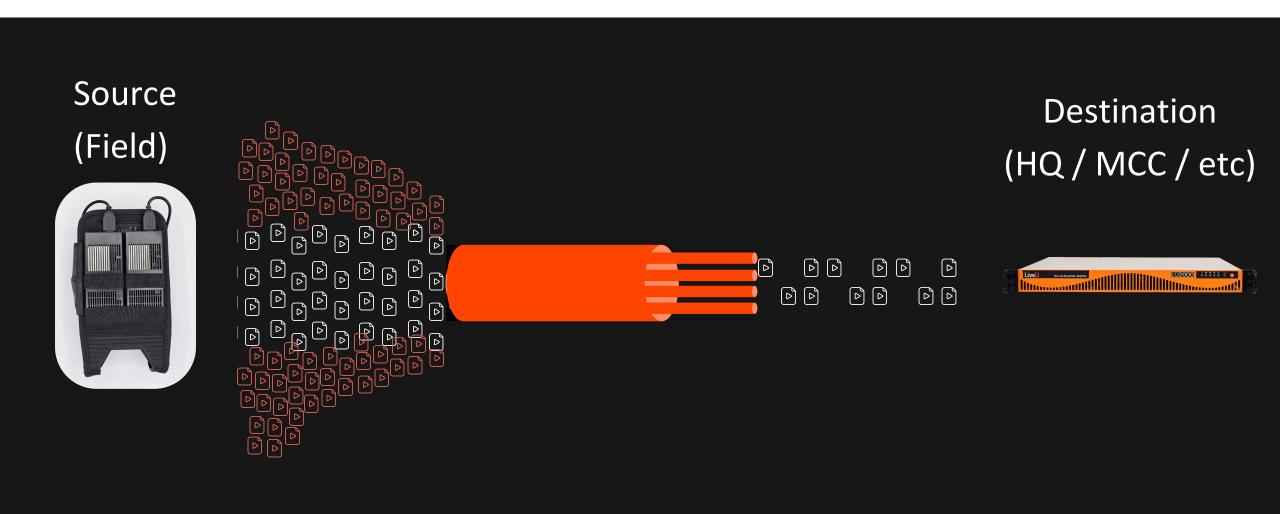
IP Bonding – Bonds multiple network connections into a single virtual larger connection

Source (Field)

Destination (HQ / MCC / etc)

But... What happens when the network bandwidth shrinks?

Not all packet can go through, resulting in disrupted video and freezes



LRT[™] adapts the video stream to the available network bandwidth

Source Destination (Field) (HQ / MCC / etc)

LRT[™] adapts the video stream to the available network bandwidth making sure the video will be received with no disruptions

Source (Field)



 Destination (HQ / MCC / etc)



... and it continuously does that

Source (Field)



 Destination (HQ / MCC / etc)



RELIABLE, REAL-TIME

VISUAL INTELLIGENCE

for Mission Critical Operations



Harnessing real-time video for instant visual intelligence



Improves

decision-making process



Reduces

response time



Improves

coordination and collaboration



Increases

operational efficiency



Enhances

safety and security

Support for any use case





Surveillance



Special Response Team



Warrant service



Search & Rescue



Training



Mutual Aid



Community outreach

Trusted by 1000 agencies all over the globe



















































Real-time Reliable High-quality Video Transport and Distribution

Seamless video transport from any video source









A mobile solution that works everywhere with virtually any type of network, bonding all of them together









Low latency transport to any destination





Mobile Command Center

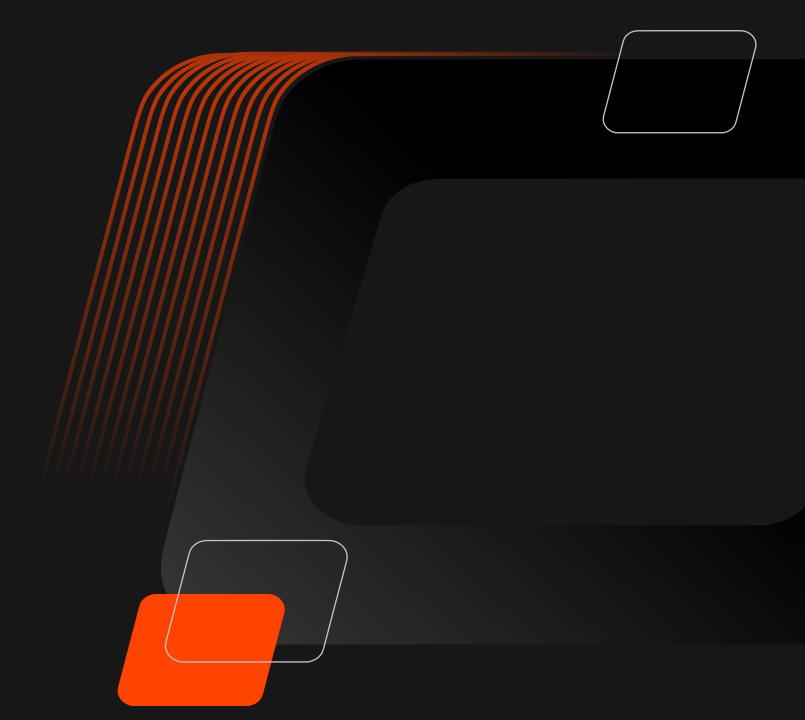


Interoperable with your existing VMS / CDN



Video Management
System

The solution components





LiveU Situational Awareness Solution Components



LU-REQON1 – HIGHLIGHTS

Transmit Video from any RTSP or HDMI Source



Small-sized

900g (2 lb)

6 network

bonding links

3-hours internal battery



---- IP Input

HDMI Input

• 4 modems included



Molle attachment portability

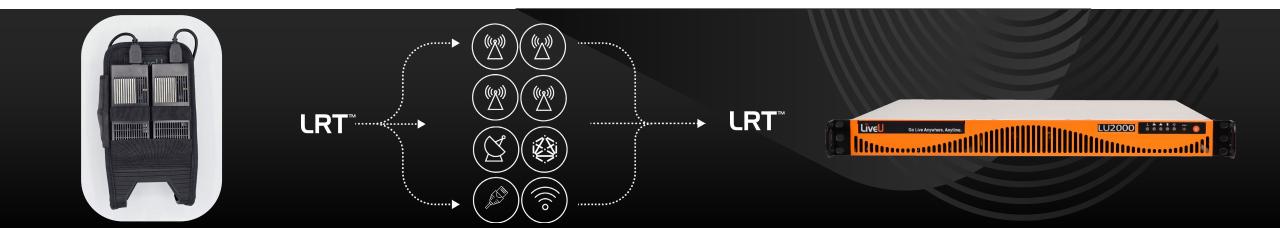


Molle attachment





IP Bonding links & LRT™



6 network links

- 2x4G internal modems
- 2x4G external modems
- 1 Ethernet
- 1 Wi-Fi

IP Bonding

Splitting encoded video over multiple operators and technologies together, at the same time.

- Cellular
- SATCOM (Ka/Ku, BGAN)
- Wi-Fi

LRTTM

A video and audio delivery protocol, developed by LiveU. LRT™ uses **Dynamic network awareness** and other techniques to ensure rock-solid reliability over cellular and other IP networks.



LU2000 - Bonded Video Receiver

Receive, decode and playout any bonded video stream sent by LiveU's range of field units



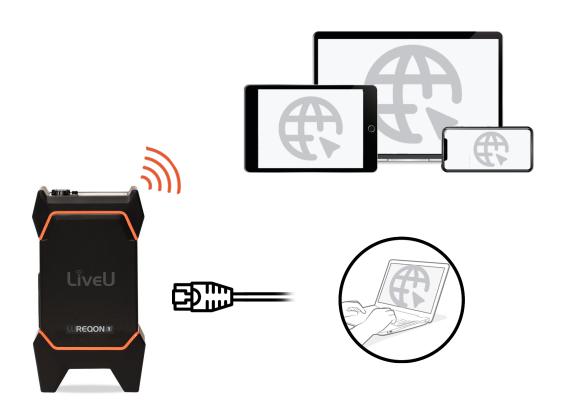
- Can receive up to 4 simultaneous feeds
- Supporting multiple output formats:
 - Available in 3 SDI output configurations: 1, 2 or 4
 - SRT / RTSP / RTMP for IP streaming
 - MPEG-TS
 - NDI
 - Matrix

- 1U rack-mountable server
- High reliability with LRT™
- H.264 and HEVC decoding
- Full management and control via LiveU Central



LiveU DataBridge

Resilient high-speed mobile internet connectivity in any location



A powerful WiFi hotspot or Ethernet-based internet connectivity to any device:

- Laptops
- Phones
- Tablets

DataBridge bonds multiple networks

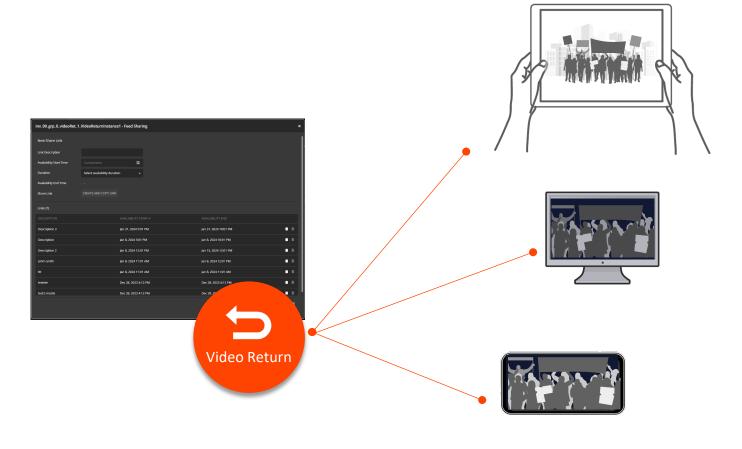
- 4G/5G cellular
- WiFi
- Ethernet



Video Return via Link

Give ad-hoc access to forces joining the operation



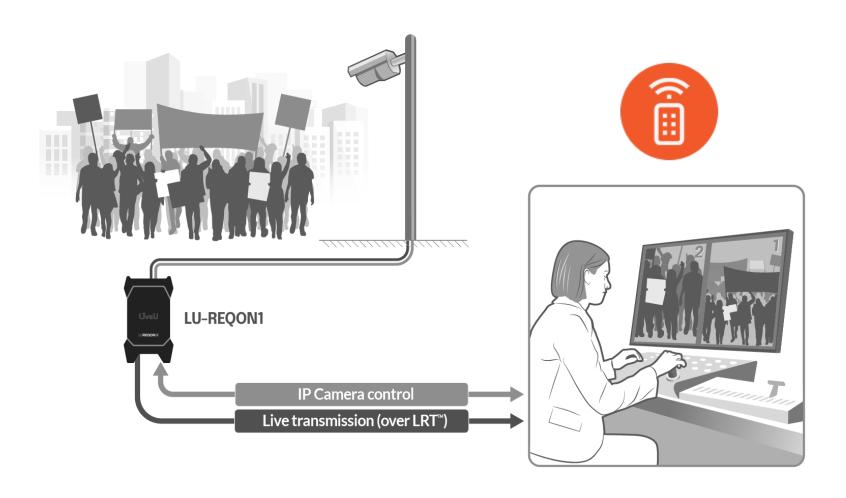


LiveU IP-Pipe

Remotely control PTZ cameras and other network-based equipment from your Command & Control center

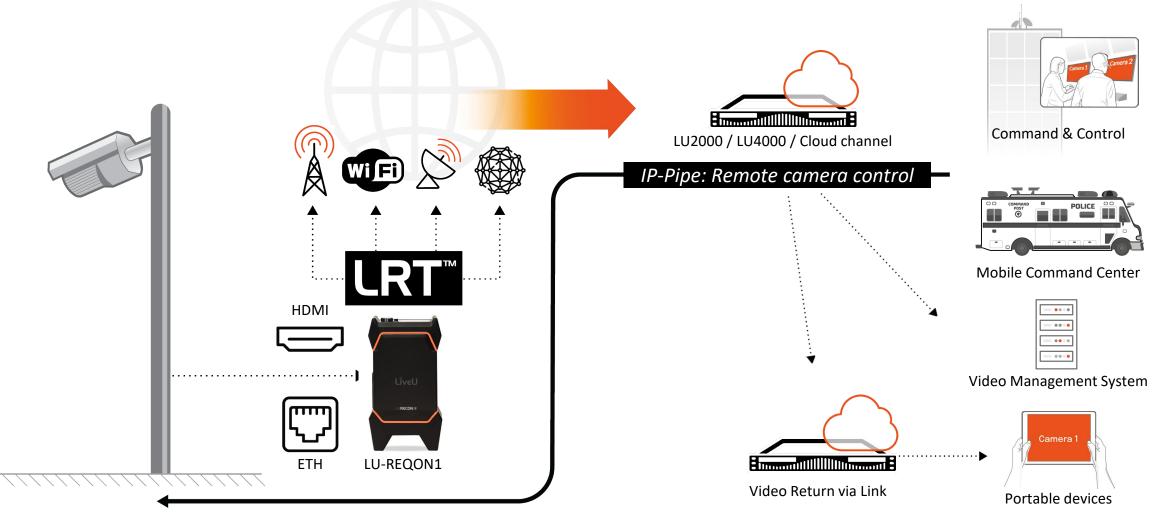






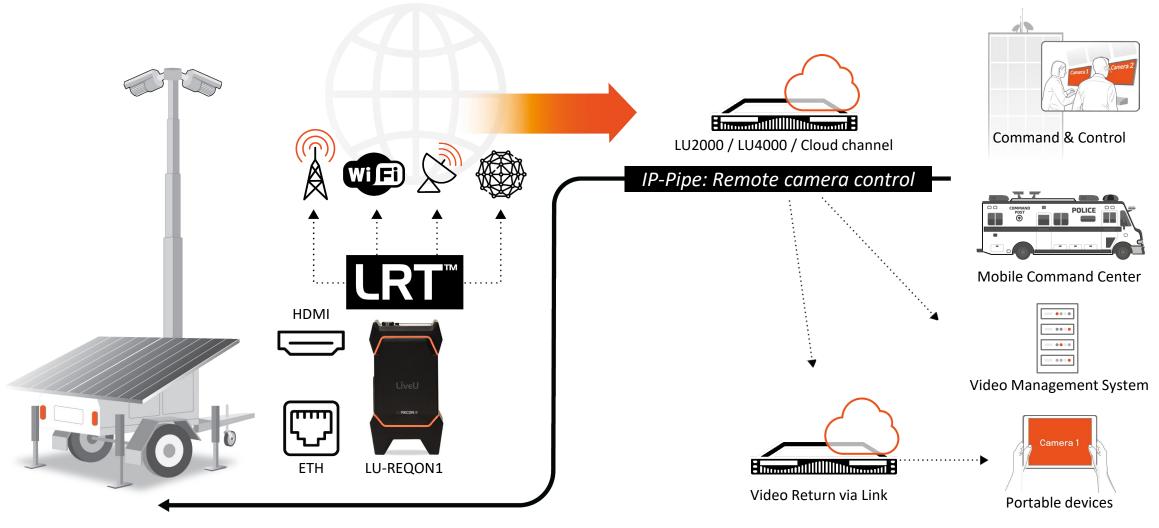


Example: Surveillancewith Remote Camera Control using LiveU IP-Pipe





Example: Mobile Surveillancewith Remote Camera Control using LiveU IP-Pipe

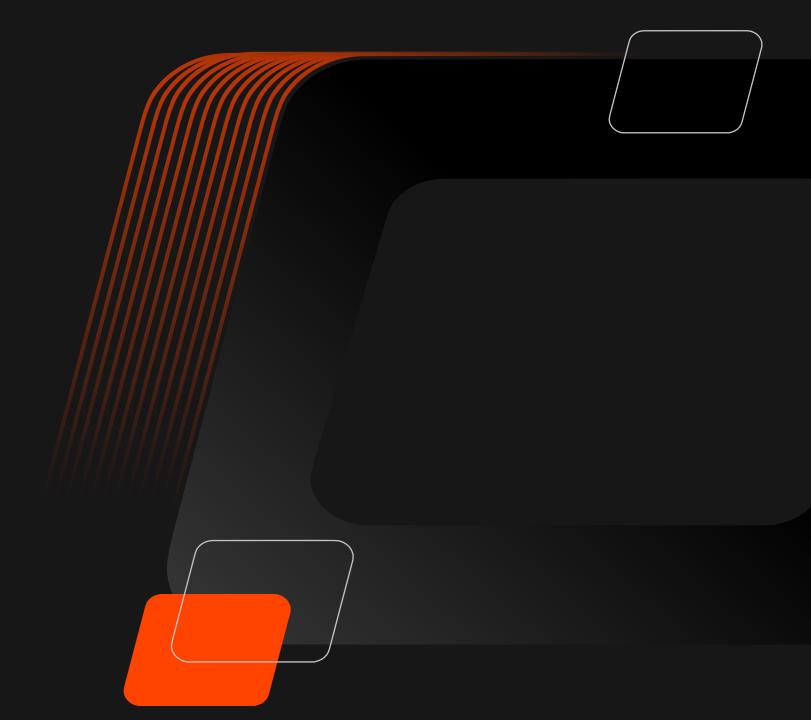




Case Studies

Click to edit Master text styles





Operational Field Exercise: Minoas 2024, Crete





The mission:

The Ministry of Climate Crisis & Civil Protection, the Earthquake Planning & Protection Organization, and the Region of Crete joined forces to improve coordination of services, the information gathering and evaluation processes and to train involved agencies/volunteers in case of earthquakes

The challenge:

Live signals from multiple locations in the field had to be delivered in real-time and with minimal delay to a HELLAS SAT vans on site from where the signal was distributed to

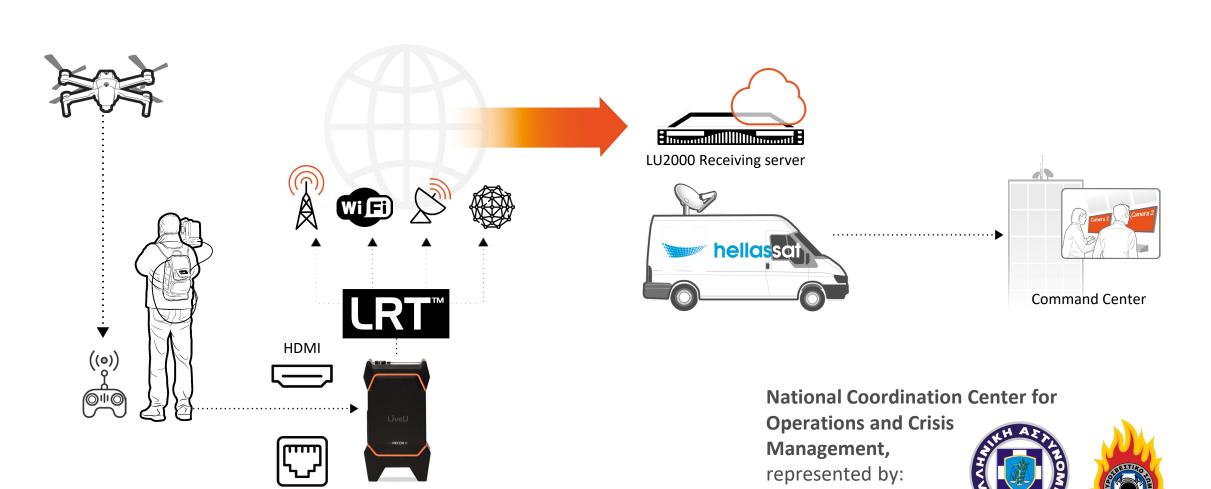
The solution:

The exercise was captured by ground-based cameras as well as drones which were connected to LiveU field encoders which transmitted the live signals using multiple bonded internet connections.

All LiveU delivered feeds were received by the HELLAS SAT vans using the LU2000 server



Operational Field Exercise: Minoas 2024, Crete





ETH

LiveU field unit

Rescue Services Case Study: SÄRF Fire Safety, Sweden



The mission:

Providing emergency services in six municipalities, including 25 fire and ambulance services.

The challenge:

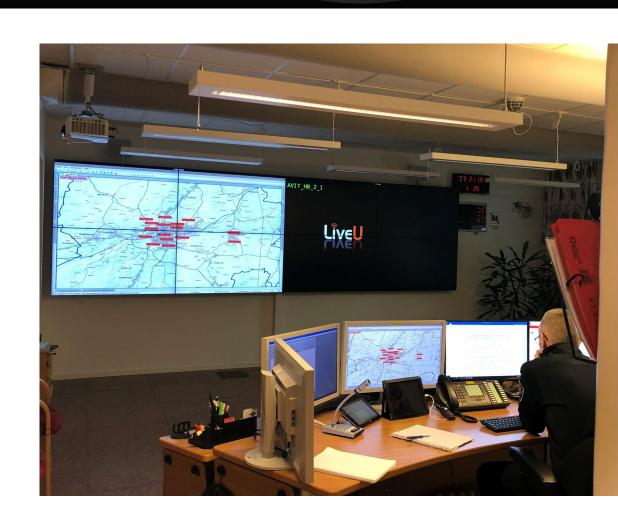
Real-time situational awareness, fire and accident prevention and training, strengthening decision-making, responsiveness and preparedness to deal with fires and accidents.

The solution:

LiveU's compact LU300S field encoder, deployed with a DJI Mavic Pro drone operator, to deliver live videos from the field to SÄRF's headquarters

Over 200 LU-Smart mobile apps supplied to SÄRF's rescue crews, most importantly for use by the fire truck operators on their personal smartphones.

Live feeds transmitted to the LU2000 server in the HQ control room, displayed on a large 70-inch screen with data from the live server transmitted out to the field.



Rescue Services Case Study: SÄRF Fire Safety, Sweden



Niklas Ignell
Fire Safety Manager
SÄRF

"It's often said one picture says more than 1,000 words. We've been using LiveU technology for several years and its reliability, encryption and ease of use, in particular, are critical advantages. We're now using a complete solution where everyone on the team has the LU-Smart app; the fire fighters can simply click two buttons after unlocking their phones to get the video app working. The teams find it easy to use whether they're technical or non-technical."



Search & Rescue Case Study: Pegasus Aviación



The mission:

Operation of aircraft in emergency environments – mainly forest fires – and the rescue of people on land and at sea

The challenge:

Optimizing the operations using on-board technology, requiring options that would provide greater connectivity in environments with poor coverage

The solution:

A large number of LiveU's LU300 compact field units deployed in its helicopters to enhance its imaging services in Chile and Spain

Controlled by Pegasus Aviación through LiveU's cloud-based management system, LiveU Central

Using LiveU's DataBridge technology to access high-speed internet while the aircraft are in flight



Search & Rescue Case Study: Pegasus Aviación



José Antonio Rodríguez
Head of Projects,
Planning and Support
Pegasus Aviación

"This technology greatly enhances the information we can obtain from our operations, allowing us to capture live video images from places where it was previously unfeasible. These real-time images play an important role for our customers, allowing emergency managers to make decisions with fresh information from the field. LiveU is an important technological step forward for us and we are looking to expand its use in the other countries we serve through our fleet of over 130 aircraft."



Key Benefits



High-quality with no compromises



Reliable and resilient video transmission



Enhanced mobility for on-the-go operations



Broad visibility:

Borderless video sharing and distribution



Continue using your existing

Video Management System

(VMS) & Customer Distribution

Network (CDN)



360-degree Situational Awareness



Global 24/7 support





Thank You

For more information www.liveu.tv

