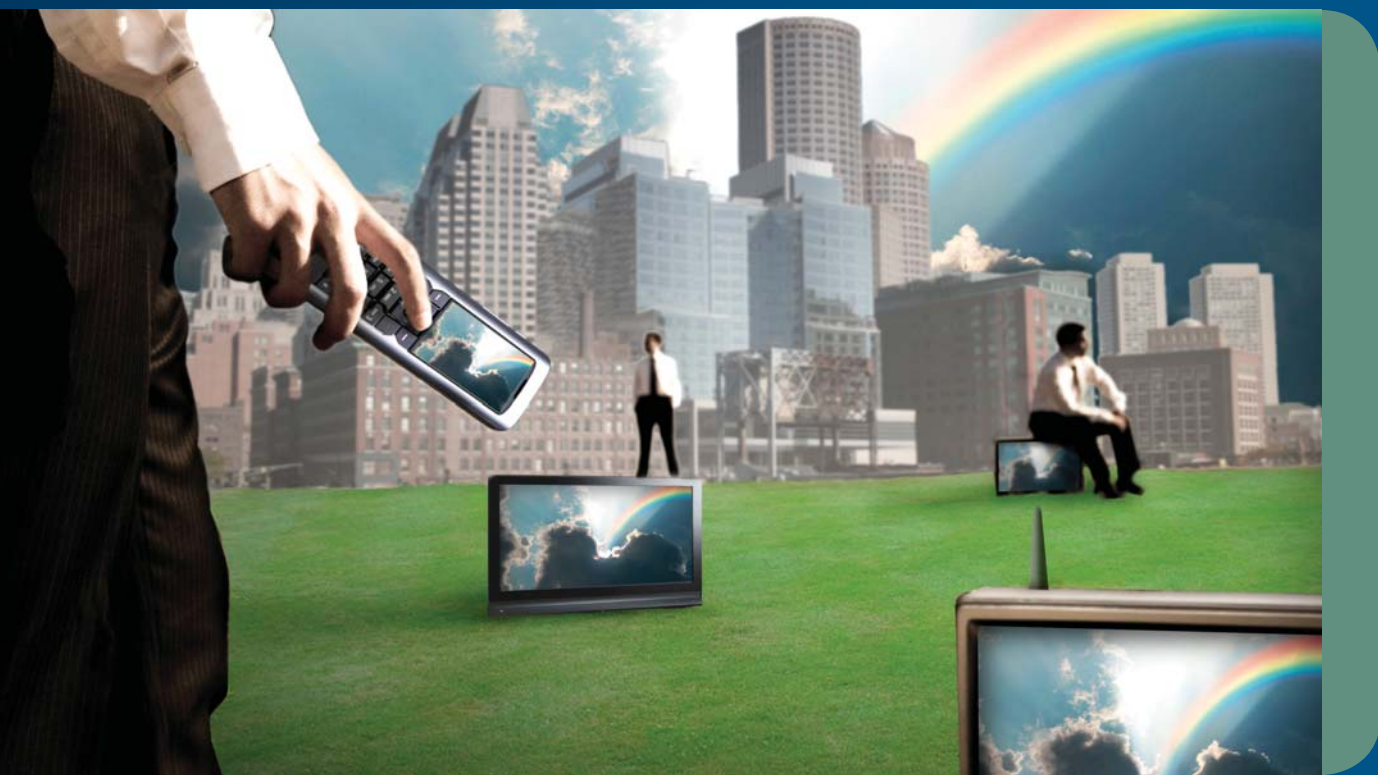


Professional equipment

# horizon



## Hear Multistream, Think Newtec

Terrestrial TV  
Mobile TV



SHAPING THE FUTURE OF SATELLITE COMMUNICATIONS

# Horizon Key Features

Horizon is a family of professional equipment specifically designed for the primary satellite distribution of video and radio content for mobile and terrestrial TV networks. The Horizon family is developed to make the best use of the available satellite capacity while minimizing the investment and operational costs.

Horizon products are designed to be installed in the transmission towers in order to receive media content from the satellite, process content for local customization of the programs, synchronize the signals with other towers and re-transmit the TV and radio programs terrestrially towards the digital TV receivers and/or the handheld devices.

Horizon is compatible with Newtec's unique Multistream technology. Multistream is the DVB-S2 technology that guarantees the most efficient content distribution over satellite. Multistream allows transport of digital terrestrial TV, mobile TV, radio and IP signals on a single satellite carrier.

The Horizon family includes Multistream satellite receivers and satellite-to-terrestrial transceivers with or without Local Content Management.

- DVB-S2 **Multistream compliant**
- Focus on **CAPEX and OPEX cost efficiency**
- **ASI** and **IP** outputs
- Integrated GPS reference for SFN synchronization
- **Highest compactness** in a single 1RU
- **Compliant to the DVB-S and DVB-S2 standards**
- Integrated **Local Drop function** to offer regional content



- Professional equipment
- Broadband systems
- IP software

# horizon



Terrestrial TV

Mobile TV

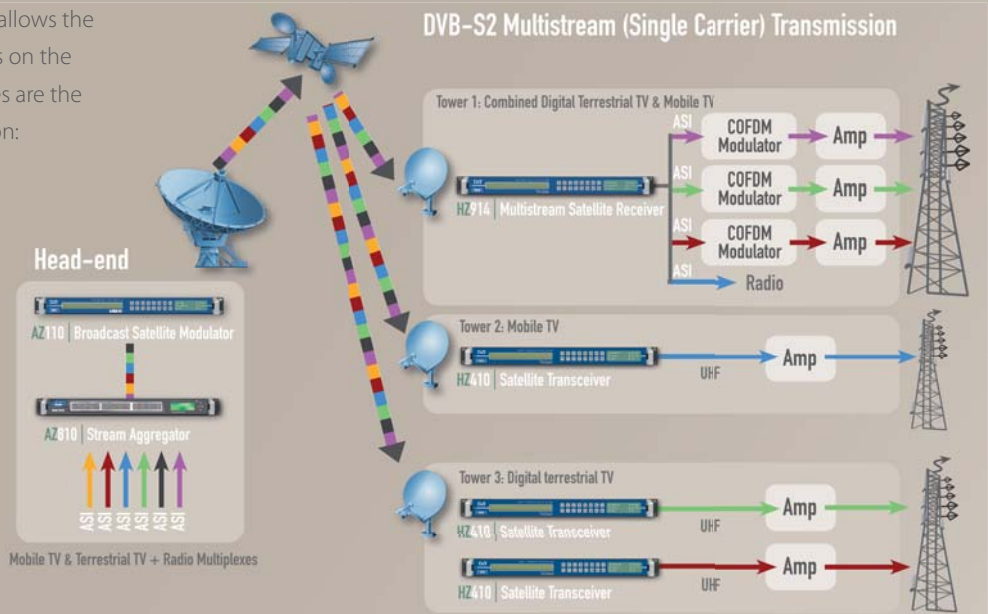
Hear Multistream, Think Newtec

# Horizon Applications

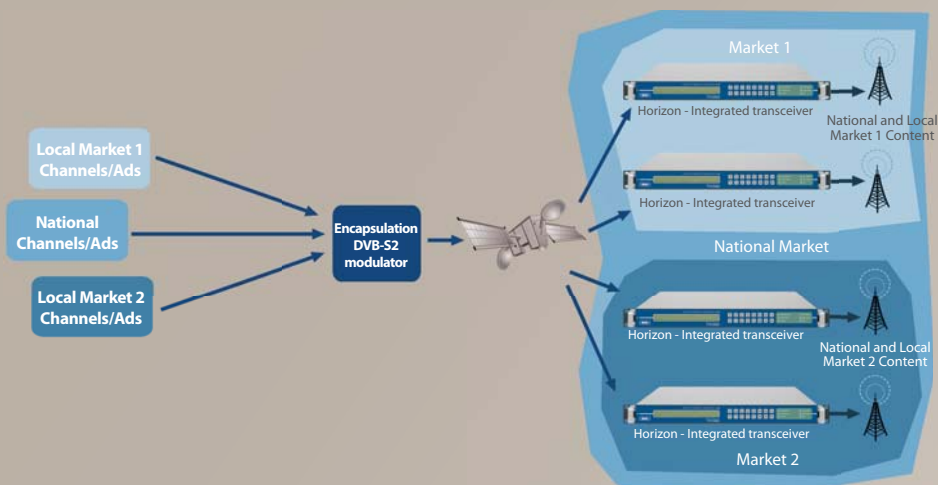
## Multistream distribution of Digital Terrestrial TV and Mobile TV content

Newtec's unique Multistream technology allows the operator to distribute multiple multiplexes on the same satellite carrier. Following advantages are the direct result of Multistream implementation:

- 1. Lower the Capital investment costs by reducing in the amount of equipment needed in the transmitter towers and head-end
- 2. Lower the Operational costs by optimizing the bandwidth efficiency. Unlike multiple carrier configurations, this mode of satellite transmission allows to operate near transponder saturation
- 3. Easy deployment by adding multiple services or multiplexes on the same carrier in a flexible way.



The cherry on top? It's fully transparent and compatible with SFN network technologies



## Flexible local content distribution for terrestrial or mobile TV

The Local Drop functionality allows the operator to distribute all local and national content on the same satellite carrier and to compose the content of the terrestrial bouquets locally. Without this feature each local bouquet would need to be composed centrally and distributed separately, increasing the satellite bandwidth cost dramatically.

### APPLICATIONS

Primary distribution of

- Terrestrial TV
- Mobile TV
- Mixed Terrestrial & Mobile TV

# Horizon Key Advantages

## Multistream as key driver for

- **Limited initial capital investment**

Multistream allows broadcasters to reduce the number of equipment drastically in both transmitter towers and head-end. In stead of multiple classic demodulators, a Horizon unit can receive and distribute multiple streams over ASI and IP.

- **Lower operational costs**

Not only is satellite by far the most cost-effective way to distribute content to a large number of remote sites, but Newtec's unique Multistream technology combined with DVB-S2 modulation ensure the most efficient use of the satellite capacity.

- **Fast network deployment**

Multistream is fully in touch with the broadcast operational reality as several services or multiplexes (Terrestrial TV, Mobile TV, Radio and IP streams) can be combined onto one carrier.

New multiplexes can be added in a flexible way in order to grow your primary distribution network at your own pace.

## Network scalability

Because the video content is broadcasted to all towers using a single satellite signal, the distribution cost is independent from the number of remote sites. The flexible architecture of Horizon also allows extending already deployed networks with additional mobile and terrestrial TV channels.

## Additional revenues

Horizon's unique Local Drop function ensuring the distribution of local content is easy and affordable, even in Single Frequency Network (SFN) configurations. Local programming increases the attractiveness of the service while local advertisement can generate additional revenues for the operator.

# Shaping the future of satellite communications

Newtec is world renowned as a market leader in Satellite Communications, delivering an extensive range of highly innovative products and solutions.

Since our foundation in 1985, TV broadcasters, Telecom Service Providers, Integrators and Satellite Operators from all over the world have been relying on the exceptional performance and reliability of our unrivalled products.

At Newtec, we are committed to further innovating and in turn revolutionizing the satellite communications industry. We are able to achieve this through our passion for continually developing and perfecting new technologies. We design applications that use these technologies to best serve the specific needs of our customers. As part of our philosophy of openness, Newtec is also an active participant and a trendsetter in many industry standards.

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