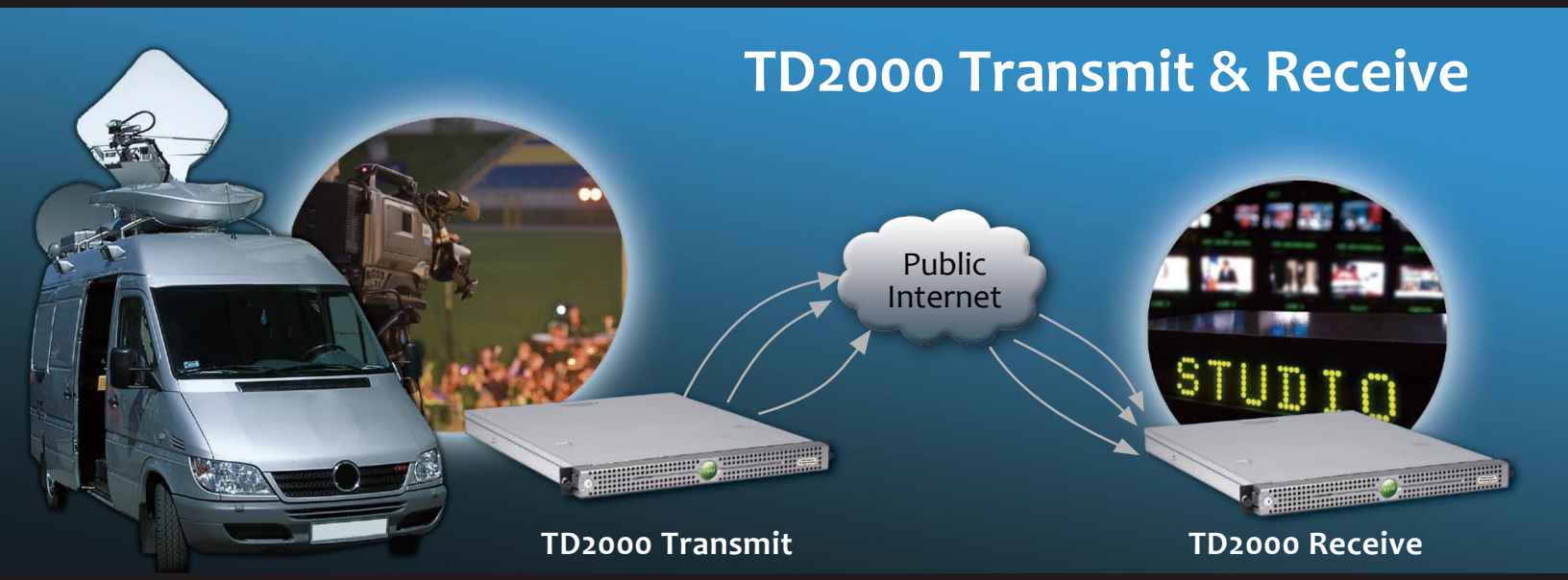
TVU networks

# TVUTransport




## Highest Quality Live Video Transport over Low Bandwidth IP Networks

For newsgathering and broadcast professionals - cost, quality and reliability are critical factors in getting your content delivered back to master control or distributed to fellow O&Os.

Whether for field crew in a mobile SNG van needing to provide breaking news coverage back to your station, or for a broadcaster needing real-time content transport to your affiliates and O&Os – you need a back-up that works in concert with your satellite backhaul.

To date, IP-based options for newsgathering and video transport have been problematic – you could either (1) use the public Internet – which is unreliable, or (2) dedicate a high speed IP line – which is cost-prohibitive.

Traditional streaming transport requires an expensive, dedicated high bandwidth Internet connection throughout the network. Furthermore, existing IP streaming doesn't efficiently utilize available bandwidth for long distances between transmitter and receiver. Today, to transmit via IP, your only choice has been to accept lower quality video or to spend more for an expensive higher bandwidth connection, and to still be plagued with distance limitations. And the public Internet? It just can't be depended upon to get your breaking news footage delivered reliably to your newsroom.

### The TVU Difference

**TVU Networks** has designed the **TVUTransport TD2000** Transmit and Receive appliances to specifically address these broadcaster pain points. Together, the TD2000T and TD2000R deliver the highest quality live video available in the industry today, and what's more, does so reliably over low bandwidth networks, long distance.

The **TVUTransport TD2000** appliances allow you to leverage up to six low bandwidth Internet connections, such as multiple 3G, WiFi, and ADSL connections at the same time, to both transmit and receive. All connections get fully utilized to deliver and sustain the quality of the video transmission, ensuring the highest QoS in even the poorest of network environments.

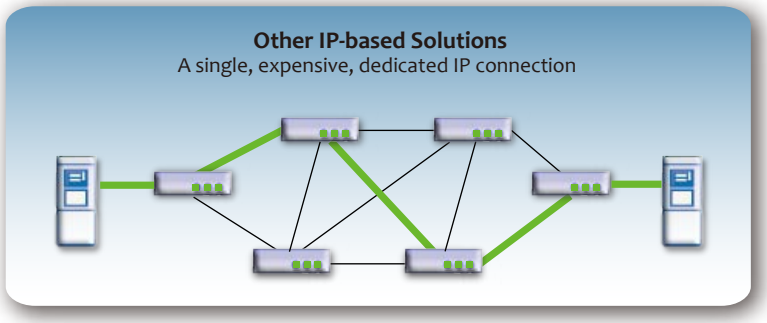
Prior to the introduction of **TVUTransport**, there was no effective way of combining multiple low cost data connections to transmit a high quality live television feed.

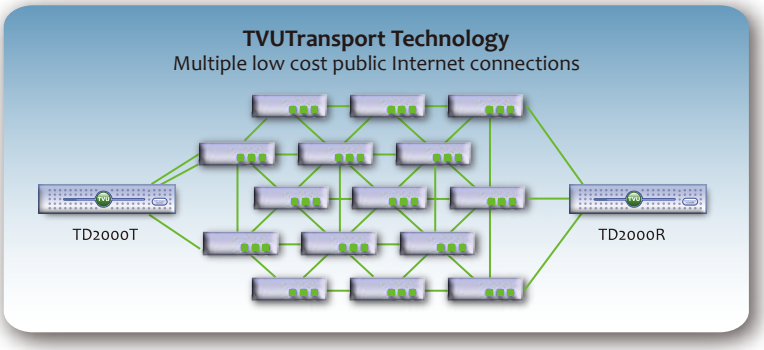
And, unlike typical solutions today that deliver sub-D1 quality video over a dedicated T1 line, **TVUTransport** allows you to go HD, using multiple public Internet connections.

### The Technology

The TD2000 appliances are powered by **TVU**'s proven Real-time Packet Replication (RPR) technology for live video delivery, in use by major broadcasters around the world.

RPR, based on the understanding of dynamic network topology information and real-time traffic knowledge accumulated from **TVU**'s 30+ million viewer installations, enables the intelligent distribution of packets in real-time, creating the most efficient way to deliver the highest possible quality of video across a network.




## Features

**Input**
- Composite
- Component
- SDI

**Output**
- Composite
- SDI

**Internet**
- 3G, WiFi, WiMax, Ethernet, ADSL
- 128 kbps to 3 mbps

**Fits into your existing environment**
- A single, rack-mountable 1RU appliance on each side: one to transmit and one to receive
- Plug and play, one button push start
- No other peripheral equipment required

**Portable configuration**
- All device configurations including user authentication stored on a USB stick
- Plug it in, and the device is ready to go

**Remote control**
- Ability to remotely adjust Internet connections and bitrates

## Specifications

**Physical**

| | |
|---|---|
| • Dimensions | 1.68" h x 17.6" w x 21.5" d |
| • Weight | ~ 26.0 lbs. |

**Power**

| | |
|---|---|
| • Input Voltage Range | 100 – 240 VAC |
| • Line Frequency | 50 – 60 Hz |
| • Single Power Supply | 345w |

**Environmental**

| | |
|---|---|
| • Operating Temperature | 50 to 95 degrees F |

**Regulatory**
- FCC Part 15 Class A

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