

# On-set Monitoring



## HD Video Monitoring and Proxy Recording

The Teradek Cube is the smallest and most versatile wireless HD video device available. Cube is the world's first camera-top HD video encoder. Cube converts a HD-SDI or HDMI video *signal* into a HD video *stream* for distribution over LAN, WAN or the Internet. In its simplest configuration, Cube streams HD video over WiFi to a laptop allowing filmmakers to have a wireless, mobile, HD video monitoring solution. Cube's strength lies in its versatility. Cube can also stream to up to three iPads simultaneously. Users can extend Cube's wireless range by adding a WiFi router. Users can stream HD video to a professional monitor using the matching form-factor Cube Decoder.

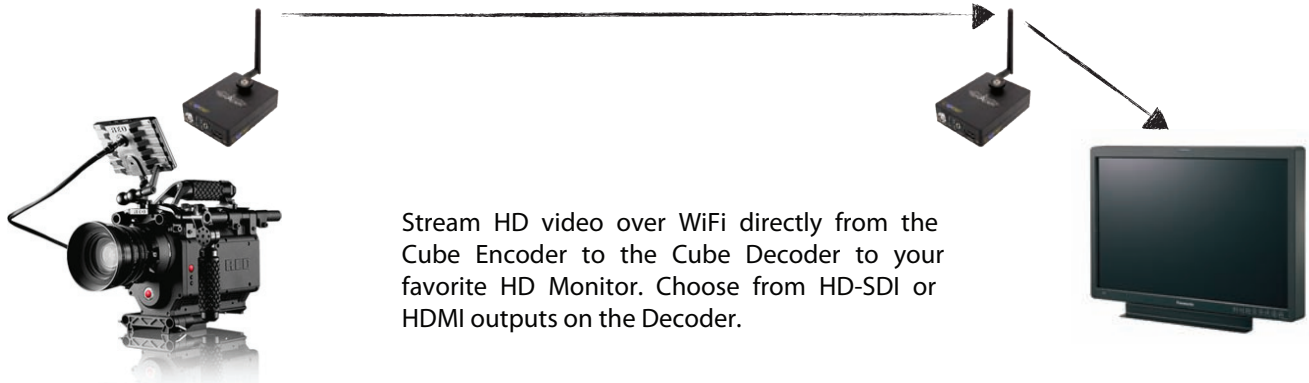
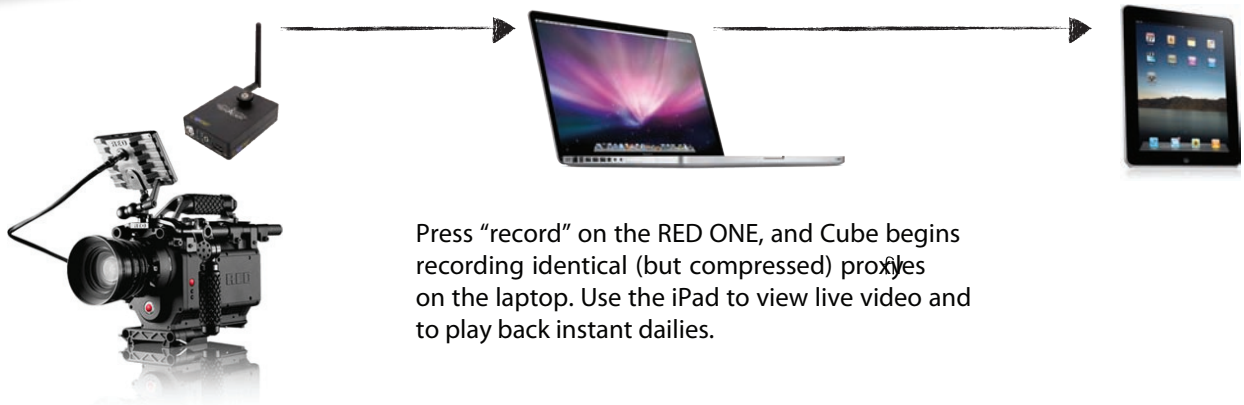
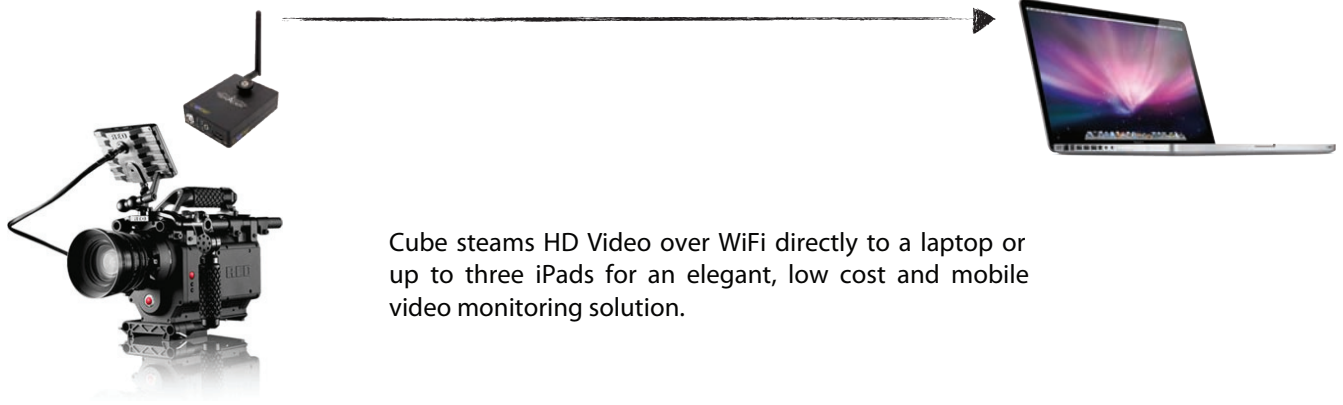
RED Digital users can use a HD-SDI Cube to stream and record proxy files on a laptop, and play those files back instantly on an iPad. Cube senses when your RED Digital camera is recording and wirelessly creates identical, compressed files on a local storage device. The files are encoded using advanced H.264 video compression creating small files that are easily manageable and Blu-ray quality. Proxy recording files provide instant playback via iPad, and are ideal for offline editing.

Cube mounts easily to any camera using a 1/4-20 screw or hotshoe mount and streams HD video up to 1080p over IP. The unit is tiny (about the size of a deck of cards) and uses only 3 watts of 9-24V DC, so it doesn't impede in the mobility of even the smallest camera rigs. The unit features both wired Ethernet and WiFi outputs, and buyers can choose between HD-SDI or HDMI inputs.

Cube uses H.264 High Profile (Level 4.1) video compression, which is the most advanced compression algorithm in the world today, and it features a built-in scaler to convert from 1080 to 720, 480 or 240 resolutions. Users can choose a resolution and target bit rate based on the availability of IP bandwidth. Typical bit rates for HD are between 2-4Mbps, and SD bit rates are typically sub-1Mbps.

The ability to view live HD video wirelessly significantly streamlines your on-set workflow, and provides the director, cameraman, and clients the confidence to say "we've got this in the can", keeping your production on schedule and under budget.





**Encoders:**

- Cube-100: HD-SDI In, Ethernet out
- Cube-120: HD-SDI In, Ethernet + WiFi out**
- Cube-130: HD-SDI In, Ethernet out + PoE
- Cube-200: HDMI In, Ethernet out
- Cube-220: HDMI In, Ethernet + WiFi out**
- Cube-230: HDMI In, Ethernet out + PoE

**Decoders:**

- Cube-300: Ethernet in, HD-SDI out
- Cube-320: Ethernet + WiFi in, HD-SDI out**
- Cube-330: Ethernet in + PoE, HD-SDI out
- Cube-400: Ethernet in, HDMI out
- Cube-420: Ethernet + WiFi in, HDMI out**
- Cube-430: Ethernet in + PoE, HDMI out

Teradek.com/cube is updated regularly and features additional product information, screencast tutorials, technology primers, ordering instructions, and promotional videos.

