



# Regional 3Cs Project

## Video Downlink



### Resources Currently Available

#### Equipped Air Assets:

- SDPD ABL (4)
- SDFD Copter 1 (1)
- SDSO ASTREA (1) - Online in early 2008

#### Networked Receivers:

- Downtown San Diego (City Administration Bldg)
- Mid-City San Diego (Chollas Equipment Yard)
- East County (Cowles Mountain)

#### Stand Alone Receivers for Deployment: 4

- (3Cs Support, SDFD, SDPD, SDSO)

#### Vehicle Based Receivers: 4

- (SDFD-2, SDPD-1, SDSO-1)

### Planned Expansion

8 additional receivers are planned for installation in 3Cs Phase 2 (estimated completion May 2008)



### System Overview

The Regional Command and Control Communications (3Cs) Project supports secure digital video downlink from the region's fleet of public safety helicopters. Downlink from air assets enable incident commanders and operations staff to see real-time pictures of an incident. Unlike television news video, public safety crews have the ability focus on specific views of the incident in support of command and control.

The system supports two different means to receive downlink video: local direct downlink, and regional reception across the 3Cs network.

Local downlinks have been common in the San Diego Region for many years now. They rely on line of sight transmission from a helicopter on a pre-programmed frequency. Local direct downlink is a preferred method for viewing downlinks at temporary command posts in the field.

For operations centers and locations not within line of sight to the helicopter, regional reception across the 3Cs network is used. In this model, receivers are placed at key locations across the region with access to the 3Cs network. The signal is captured and then sent to all 3Cs networked sites using VBrick encoders. The means of reception is currently limited to only 3 areas in San Diego County, but will be expanded in early 2008 to cover the majority of the metropolitan areas in San Diego county.

### How to Utilize Video Downlink

Downlink transmission from aerial assets is at the discretion of the agency providing aerial support and should be requested through the incident commander. Depending on the geographical location of the incident, regional reception may not be available at 3Cs endpoints.

Assistance is available to all 3Cs members for video downlink support. Please contact 3Cs Support Staff at 619-869-9555 to request equipment or assistance in viewing downlink feeds.