Parachute Mobile Communications Diagram

www.parachutemobile.org

tactical call, "Jumper One, Jumper Two, ..."

Voice Comms: 147.570 MHz direct
HF comms: 14289 KHz USB
Jumper Mon: 446.075 MHz
DMR: 145.0 out, 147.5 in, Calif TG 3106, reflector REF014 C.
APRS telemetry: 144.330 MHz (144.390 if no local igate)
Video: 5.8GHz NTSC analog
SSTV: Scottie 1 mode 320x256, 145.500 MHz

APRS data either AF6IM, KF6WRW, KC6TYD, W7BIG

Frequencies:
147.5700 simplex, no PL
146.430 simplex, no PL
14289 KHz USB
145.0/147.5, Port C
147.060+, PL 100.0
446.075 simplex, no PL
144.330 MHz
145.530 MHz
145.500 MHz

Description:
Jumper QSO use this
Jumper QSO (not used, old primary)
20m SSB for OTH QSOs
Dstar W6CX repeater
W6CX repeater for talkback, ops, announcements
Jumper Mon, transmit only from Tac Ops to jumper
APRS frequency, if no local I-gate, then use 144.390
Weather Box packet data
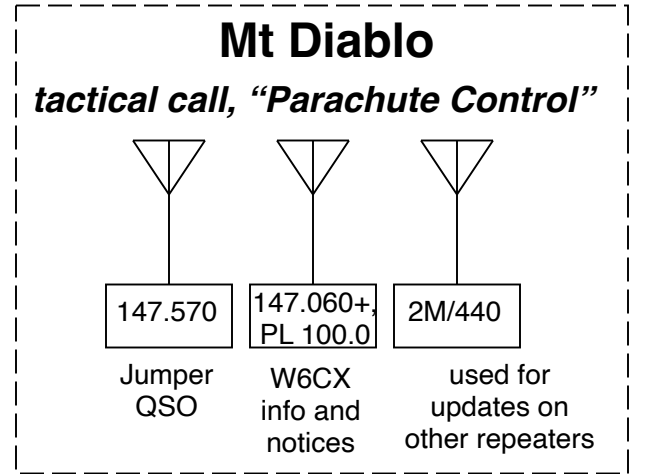Slow Scan TV, Scottie 1 mode 320x256

EchoLink node: W6BSD-L
Allstar: 40490

20-meter HF QSO Plan
Jumper 1 will be on 14289 USB, may go to other freq as requested.
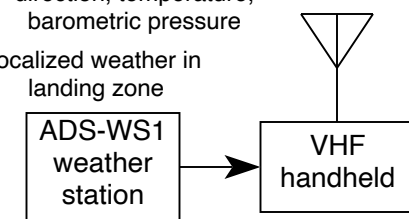
DMR Communications Plan
D-Star via W6CX-C repeater on Mount Diablo, output 145.000, input 147.500, Port C
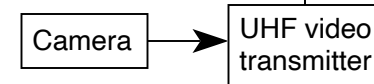Calif Talk Group 3106, reflector REF014 C.

Mt Diablo
tactical call, "Parachute Control"

147.570	147.060+, PL 100.0	2M/440
Jumper QSO	W6CX info and notices	used for updates on other repeaters

Weather Box
local windspeed, wind direction, temperature, barometric pressure

localized weather in landing zone

ADS-WS1 weather station → VHF handheld

145.530 MHz packet data

camera on small building in landing zone

Camera → UHF video transmitter

433.250 MHz CATV 59

Pacificon at San Ramon Marriott
tactical call, "Pacificon"

147.570	147.060+, PL 100.0	2M/440	live video from ustream.tv
Jumper QSO	W6CX info and notices	used for updates on other repeaters	Internet streaming computer → large size monitor

Byron Airport
tactical call, "Dropzone"

Tac Ops

147.570	147.060+, PL 100.0	145.0 147.5	446.075	14 MHz
Jumper QSO	W6CX info and notices	DMR radio	Jumper monitor	HF comms
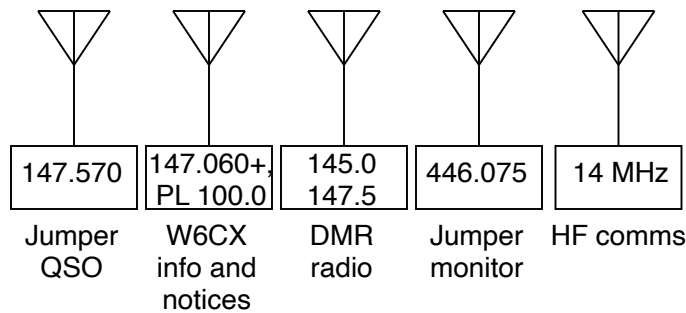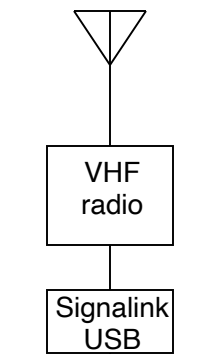
SSTV images
VHF radio → Signalink USB → Laptop running MMSSTV program

small jpg stills from jumper camera
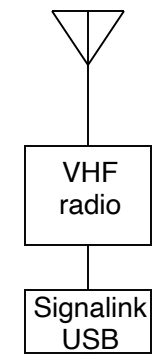
Weather Box
VHF radio → Signalink USB → Laptop for weather data display

DZ windspeed and direction

APRS display, log, I-gate
144.330
VHF radio → Signalink USB → Laptop for APRS display, log, and I-gate
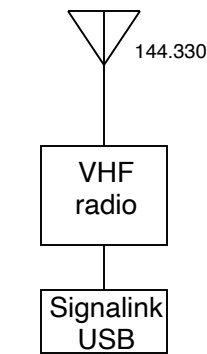
Jumper GPS location, HR and SpO2

Video Ops
tactical call, "Video"

CATV receiver	2m/440 dualband	Video Receiver
	W6CX and other stations	5.8 GHz

Air-to-Ground → Eachine DVR

PTZ camera on roof viewing aircraft boarding and jumper landing zone → Camera → PTZ Camera → Eachine DVR

LZ Camera → Eachine DVR

camera showing Parachute Mobile activities → Camera → Ops Area Camera → Eachine DVR

composite video signals → video switcher → Win7 laptop streaming video → The Internet

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