

KQTC

Christoval, TX
BLH20160120AAR
Latitude: 31-00-32.29 N
Longitude: 100-30-54.56 W
ERP: 50.00 kW
HAAT: 121.0 m
Channel: 258
Frequency: 99.5 MHz
AMSL Height: 828.0 m
Elevation: 705.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KQTC Emerg. Antenna

Latitude: 31-28-40.40 N
Longitude: 100-25-36.40 W
ERP: 0.35 kW
HAAT: 4 m
Channel: 258
Frequency: 99.5 MHz
AMSL Height: 583.0 m
Elevation: 568.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

KQTC Channel 258C2 Christoval, TX
Emergency Antenna Transmitter Site Notification
Compliance with FCC § 73.1680

Glasscock

Sterling

Winters

Runnels

Ballinger

KQTC Emergency Antenna
FCC F(50,50) 60 dBu contour

Miles

+ KQTC Emerg. Antenna

KQTC Main Facility
FCC F(50,50) 60 dBu contour

Irion

Mertzon

Big Lake

Concho

Eden

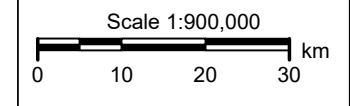
+ KQTCSchleicher
EldoradoMenard
Menard

Crockett

Ozona

Sonora

Sutton

HORIZON
BROADCAST SOLUTIONS

V-Soft Communications LLC ©

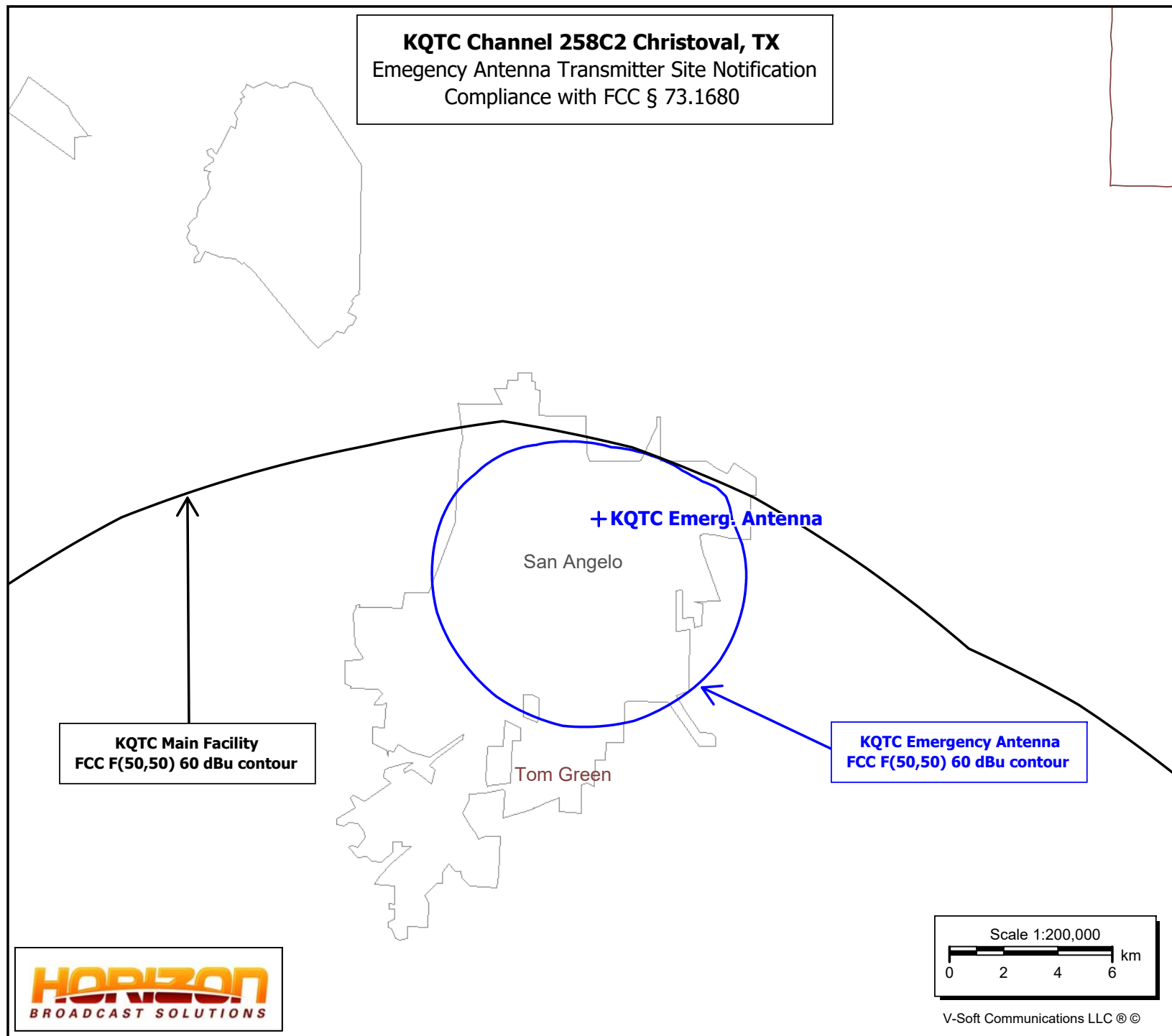
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CD-95Y

Directional LPFM Base Station Antenna

Specifications

- 88-108MHz continuous
- Polarization: Vertical or Horizontal
- Number of elements: 6
- VSWR: Less than 1.5:1
- Gain: 7-8dBi
- Impedance: 50 Ohm
- Elevation angle: 60-70 degrees
- Horizontal angle: 110-120 degrees
- Front to back ratio: 15dB avg.
- Boom Length: 45 inches
- Longest Element: 71 inches
- Weight:: 7lb 7ozs
- Max Power: 500 watts
- Max Wind Survival: 90MPH
- Mast Required: 1 5/8—2 inches
- Connector: Integral SO-239
- Magnesium alloy/stainless steel mounting hardware included



The CD-95Y is a commercial grade directional LPFM broadcast antenna. The included vertical mounting bracket was designed specifically to avoid the negative influence of the mounting mast to the radiation pattern.

The mechanical design is commercial quality using a specially designed aluminum boom that acts as a phasing line. With no tuning or adjustments required, assembly is very easy.

Directional pattern radiates the signal in a vertical angle of approx 70 degrees and a horizontal angle of approx 120 degrees

Heavy wall tubing survives 90MPH winds

Magnesium alloy mounting brackets, stainless steel U-bolts and hardware for secure and reliable installations

No tuning required, SWR of 1.5:1 or less from 88-108MHz



NCG Company 15036 Sierra Bonita lane Chino, CA 91710-8901
Phone: 909-393-6133 Fax: 909-393-6136
email: micks@cometantenna.com

CD-95Y, LogPeriodic Antenna.

Gain against angle, Frequency 98 MHz.

Antenna Gain 3.8dBd(5.95dBi)

2015-7-31

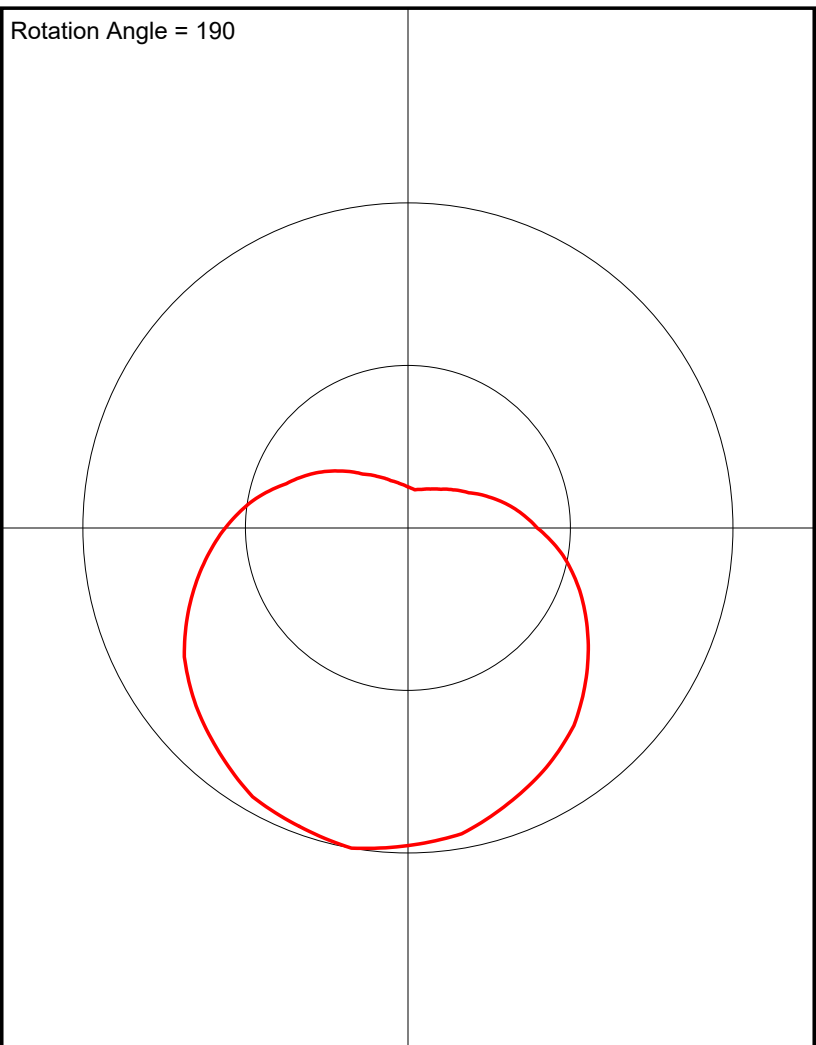
Elavation 0 ~ 180°					
Angle	Rel. dB	Angle	Rel. dB	Angle	Rel. dB
0	0	60	-2.9	120	-11.3
2	0	62	-3.1	122	-11.7
4	0	64	-3.3	124	-12.1
6	-0.1	66	-3.5	126	-12.5
8	-0.1	68	-3.7	128	-12.9
10	-0.2	70	-3.9	130	-13.3
12	-0.2	72	-4.2	132	-13.6
14	-0.3	74	-4.4	134	-13.9
16	-0.3	76	-4.6	136	-14.2
18	-0.4	78	-4.8	138	-14.5
20	-0.4	80	-5.0	140	-14.8
22	-0.5	82	-5.2	142	-15.1
24	-0.6	84	-5.4	144	-15.4
26	-0.7	86	-5.7	146	-15.7
28	-0.8	88	-6.0	148	-16.0
30	-0.9	90	-6.3	150	-16.2
32	-1.0	92	-6.7	152	-16.4
34	-1.1	94	-7.1	154	-16.6
36	-1.2	96	-7.4	156	-16.8
38	-1.3	98	-7.7	158	-17.0
40	-1.4	100	-8.0	160	-17.2
42	-1.5	102	-8.3	162	-17.4
44	-1.6	104	-8.6	164	-17.6
46	-1.7	106	-8.9	166	-17.8
48	-1.8	108	-9.2	168	-17.9
50	-2.0	110	-9.5	170	-18.0
52	-2.1	112	-9.9	172	-18.1
54	-2.3	114	-10.2	174	-18.2
56	-2.5	116	-10.6	176	-18.3
58	-2.7	118	-11.0	178	-18.4
60	-2.9	120	-11.3	180	-18.5

CD-95Y Emergency Antenna Pattern

Post-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	0.126
10.0	0.119
20.0	0.126
30.0	0.138
40.0	0.155
50.0	0.182
60.0	0.216
70.0	0.272
80.0	0.335
90.0	0.398
100.0	0.484
110.0	0.562
120.0	0.638
130.0	0.716
140.0	0.794
150.0	0.851
160.0	0.902
170.0	0.955
180.0	0.977
190.0	1.0
200.0	0.977
210.0	0.955
220.0	0.902
230.0	0.851
240.0	0.794
250.0	0.716
260.0	0.638
270.0	0.562
280.0	0.484
290.0	0.398
300.0	0.335
310.0	0.272
320.0	0.216
330.0	0.182
340.0	0.155
350.0	0.138

Rotation Angle = 190





**NCG Comet CD-95Y antenna shown
installed on existing tower.
(Photo taken 01/07/2021)**