

OMVC RF CAPTURE PROGRAM OVERVIEW

The Open Mobile Video Coalition continues to promote system improvement work through its work on Mobile DTV RF measurements and the RF signal capture program. Capture of RF television signals is an efficient and cost effective method of assisting broadcasters and receiver designers to better understand their reception environment. The RF signal capture program was initiated in March 2010 to create an RF signal library to assist broadcasters in better understanding their reception environment and to help mobile device product developers improve their products. The OMVC acquired an RF capture / playback device from Adivic and will offer it to all interested participants, including standards organizations, along with the RF signal library.



RF CAPTURE CATALOG

The RF Capture Catalog is a collection of profiles that allow broadcasters and product developers to play back these profiles in the laboratory for more thorough analysis and evaluation of the Mobile DTV RF environment. Different captures of RF television signals help broadcasters determine the relative performance between the two services and their expected coverage.

Washington, D.C. – Available in May 2011

- 48 Sites
- 290+ RF Captures
- All captures included an M/H signal embedded in the 8-VSB transmission
- RF Captures were recorded on RF channel 24
- RF captures include data taken at fixed locations at 4.5 and 30 feet, and slow moving pedestrian speed
- Each capture is approximately one minute and 20 seconds (3.7 GB per capture)

Dallas / Houston – Available August 2011

PRICING

RF Signal Capture Catalog	OMVC Members & MDTV Forum Members	Non-Members
DC and Dallas	Included as part of membership fee; only pay administrative costs of creating hard drive and shipping - \$500	\$2,500
New Catalog Markets		TBD
RF Recorder and Player Rental	OMVC Members & MDTV Forum Members	Non-Members
Two Week Rental	Included as part of membership fee; only pay administrative costs and shipping	\$2,000



ADIVIC RF PLAYER

MP 7200 RF Recorder / Player System from ADIVIC

The MP7 series RF Recorder/Player is capable of all kinds of RF signal capturing & regenerating in the frequency band from 25MHz to 2.7GHz, regardless of the modulation & coding schemes. With sampling rate as high as 100MS/s, it delivers the industry leading RF signal regenerating quality, and with its 2.7GHz wide spectrum coverage, MP7 series is not only good for Digital/ Analog TV, Consumer wireless applications but also suitable for Aerospace, Military and Defense industries. The device is capable of collecting 2-1/2 hours; files are storable.

- RF output frequency 25MHz ~ 2.7GHz
- RF input frequency 25MHz ~ 2.7GHz
- Sample Rate 100MS/s
- 20MHz Band Width
- Sample Rate 100M/s
- 20MHz Band Width
- Output power -145dBm ~ -10dBm
- 14 bit Resolution
- Input Signal range -145dBm ~ +10dBm
- 14 bit Resolution
- AGC Support

For more information regarding the RF Capture device or the RF Capture Library, please contact **Linh Benthall** at linh.benthall@omvc.org



Representing over 900 TV stations across the country, the Open Mobile Video Coalition is a voluntary association of television broadcasters whose mission is to accelerate the development of mobile digital television in the United States.

www.omvc.org