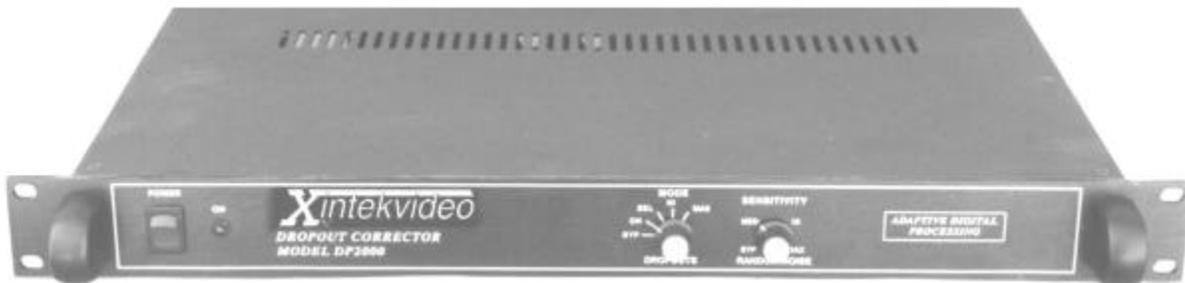


# Xintekvideo INC.

## **DROPOUT CORRECTOR MODEL DP 2000**



### **DESCRIPTION:**

Xintekvideo's Dropout Corrector Model DP-2000 is a state of the art signal processing system that essentially removes all dropouts from NTSC Color Television signals. The unit is completely self contained, it detects dropouts and it replaces them with video information.

The DP2000 is one generation beyond other dropout correctors on the market that use Median Filters to hide dropout segments. Median Filters can create some very unpleasant artifacts anywhere in the video, as a result, dropout correctors based on Median Filters have been a major disappointment. The DP2000 uses a two step process. First, it detects dropouts by means of multidimensional correlation algorithms. Up to six different conditions have to be met before the system decides that the video being analyzed is indeed a dropout. The second step consists in analyzing the video around the dropout to select the algorithm that can best generate the dropout replacement video. One of several such algorithms is selected and the dropout is corrected.

The DP2000 delivers outstanding performance, with practically no visible impairments. The unit can eliminate dropouts as small as one pixel or as large as one field. In a special operating mode, it will look only for dropouts that exceed a certain size. This can be useful in avoiding replacement of small pixels that may exhibit all the characteristics of a dropout but are part of video.

The DP2000 also features random noise reduction circuits that provide up to 9 dBs or noise reduction. This makes the DP2000 ideal for restoring the picture quality of video from old tapes.

### **SPECIFICATIONS:**

Input: NTSC color video signal, 1v pp into 75 Ohms  
Return Loss>40dB  
Output: NTSC color video signal, 1v pp into 75 Ohms  
Return Loss>35dB  
Frequency Response: +/- 0.5dB to 4.2MHz  
Non Linearity: <2%  
Differential Phase: <1° plus quantizing effects  
Differential Gain: <1% plus quantizing effects  
K Factor with 2T pulse: Better than 1%  
System Delay: 1 TV Field nominal  
Power Requirement: 120v AC, 60 Hz, 15 Watts  
Operating Temperature: 32° F to 110° F , ambient  
Humidity: 10% to 90% non-condensing  
Mechanical: 1RU cabinet: 1.75"H, 19"W, 10"L; 7Lbs

Specifications subject to change without notice. 3/2002

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