

- Issue 1 : bandwidth is limited by the serie output resistors, resulting in a significant blur in HD formats. Those resistors, initially 499ohm, can be replaced by 75ohm 1/2W resistors.

For the **THT/DIY** version, the resistors that needs to be replaced are located on the control board and have the following reference designators : R17, R18, R19, R22 and R23. Here is a Mouser reference for the replacement resistors

<https://www.mouser.fr/ProductDetail/YAGEO/MFR50SFTE52-75R?qs=sGAEpiMZZMsPqMdJzcrNwiweiCzxKzWLCltMjcLNapM%3D> else any 75R 1/2W resistor of a similar size will work. Check the iBOM to locate them more easily.

For the **SMD/Production** version, the resistors that needs to be replaced are : R26, R27, R59, R60 and R64. Here is a Mouser reference for the replacement

<https://www.mouser.fr/ProductDetail/YAGEO/RC0805FR-1375RL?qs=sGAEpiMZZMvdGkrng054tx7%2F6%252BNA3LAJ07YwRM1uQ5g%3D> note that it is a 0805 package, whereas the circuit board has footprints for 0603, though the 0805 resistors should fit. Check the diagram at the bottom of the page for component location (in red).

- Issue 2 : the sync extractor IC, LMH1980, can have trouble identifying HD signals correctly, which results in the decoded signals being too dark, as the black level isn't properly restored. One way to fix this issue is to move the chroma filter frequency cutoff higher by replacing the resistor involved in the RC filter.

For the **DIY/THT** version, the resistor that needs to be replaced is located on the control board and have the following reference designator : R13 . It was initially 100ohm, replacing it with a 47ohm resistor will fix the issue. Here is a Mouser reference for the replacement

<https://www.mouser.fr/ProductDetail/YAGEO/MFR-25FBF52-47R?qs=sGAEpiMZZMsPqMdJzcrNwiweiCzxKzWLhR5h56cy%252Bjw%3D> else, any 47ohm 1/4W will do. Check the iBOM to locate them more easily

For the **SMD/Production** version, the resistor that needs to be replaced is : R15. Here is a Mouser reference for the replacement

<https://www.mouser.fr/ProductDetail/YAGEO/RC0603FR-1047RL?qs=sGAEpiMZZMvdGkrng054t7Xp60pdtXkYp9Gs0L7VdcE%3D> else, any 47ohm 1/10W 0603 resistor will do. Check the diagram at the bottom of the page for component location (in green).

