“Indigo” Smart Display Controller

Signature Units

The Head Unit calculates target signatures of pre-defined windows and transmits the values to the SC170x via the SerDes sideband. The SC170x Signature Units do a check of display content for each signature window in real time. Comparison results triggers action on the display. A mis-match in comparison result triggers user defined safety action on the Head Unit side.

Continuous monitoring of correct frame counter

CRC/checksum comparison (max. 16 windows)

OK

NG Inappropriate color distance

Invisible Pixel cluster comparison