

| Basic television colour or mixture colour for D65<br>CIE data for $Y_W=100$                                                       | chromaticity |                                                                                                                                                                                                                                                                                                                                                                                              | tristimulus values<br>( $Y_d=100,0$ for white D65) |        |        | Standard CIELAB data $LabC^*_{ab}h_{ab}$<br>( $L^*_d=100,0$ for white; $L^*_d=0,0$ for black) |         |         |              |            | Standard YABCh data $YABC_{AB}h_{AB}$<br>( $Y_d=100,0$ for white; $Y_d=0,0$ for black) |        |        |            |            |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------------------|---------|---------|--------------|------------|----------------------------------------------------------------------------------------|--------|--------|------------|------------|
|                                                                                                                                   | $x_d$        | $y_d$                                                                                                                                                                                                                                                                                                                                                                                        | $X_d$                                              | $Y_d$  | $Z_d$  | $L^*_d$                                                                                       | $a^*_d$ | $b^*_d$ | $C^*_{ab,d}$ | $h_{ab,d}$ | $Y_d$                                                                                  | $A_d$  | $B_d$  | $C_{AB,d}$ | $h_{AB,d}$ |
| <i>three additive mixture colours: television colours according to ITU-R BT.709.3 and sRGB display according to IEC 61966-2-1</i> |              |                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |        |        |                                                                                               |         |         |              |            |                                                                                        |        |        |            |            |
| $C_d$ cyan (cyan blue)                                                                                                            | 0,224        | 0,328                                                                                                                                                                                                                                                                                                                                                                                        | 53,81                                              | 78,74  | 106,98 | 91,11                                                                                         | -48,08  | -14,13  | 50,11        | 196        | 78,74                                                                                  | -22,12 | -7,79  | 23,46      | 199        |
| $M_d$ magenta (magenta red)                                                                                                       | 0,320        | 0,154                                                                                                                                                                                                                                                                                                                                                                                        | 59,28                                              | 28,48  | 96,99  | 60,31                                                                                         | 98,22   | -60,84  | 115,54       | 328        | 28,48                                                                                  | 33,88  | -24,23 | 41,66      | 324        |
| $Y_d$ yellow                                                                                                                      | 0,419        | 0,505                                                                                                                                                                                                                                                                                                                                                                                        | 76,99                                              | 92,78  | 13,85  | 97,13                                                                                         | -21,57  | 94,48   | 96,91        | 102        | 92,78                                                                                  | -11,77 | 32,02  | 34,12      | 110        |
| <i>three additive basic colours: television colours according to ITU-R BT.709.3 and sRGB display according to IEC 61966-2-1</i>   |              |                                                                                                                                                                                                                                                                                                                                                                                              |                                                    |        |        |                                                                                               |         |         |              |            |                                                                                        |        |        |            |            |
| $R_d$ Red (orange red)                                                                                                            | 0,640        | 0,330                                                                                                                                                                                                                                                                                                                                                                                        | 41,23                                              | 21,26  | 1,93   | 53,23                                                                                         | 80,07   | 67,19   | 104,53       | 40         | 21,26                                                                                  | 22,11  | 7,79   | 23,45      | 19         |
| $G_d$ Green (leaf green)                                                                                                          | 0,300        | 0,600                                                                                                                                                                                                                                                                                                                                                                                        | 35,76                                              | 71,52  | 11,91  | 87,73                                                                                         | -86,18  | 83,18   | 119,78       | 136        | 71,52                                                                                  | -33,89 | 24,22  | 41,66      | 144        |
| $B_d$ Blue (violet blue)                                                                                                          | 0,150        | 0,060                                                                                                                                                                                                                                                                                                                                                                                        | 18,05                                              | 7,22   | 95,06  | 32,30                                                                                         | 79,19   | -107,86 | 133,81       | 306        | 7,22                                                                                   | 11,77  | -32,02 | 34,12      | 290        |
| <i>achromatic colours and equations:</i>                                                                                          |              | $X_0 = X_d / 0,9505; \quad Y_0 = Y_d; \quad Z_0 = Z_d / 1,0890; \quad A_d = X_0 - Y_0; \quad B_d = 0,4 [ Y_0 - Z_0 ]; \quad C_{AB,d} = [A_d^2 + B_d^2]^{1/2}; \quad h_{AB,d} = \text{atan}[B_d / A_d]$<br><i>or</i> $a_n = x_W/y_W; \quad b_n = -0,4[z_W/y_W]; \quad a_d = x_d/y_d; \quad b_d = -0,4[z_d/y_d]; \quad A_d = [a_d - a_n]Y_d; \quad B_d = [b_d - b_n]Y_d;$ compare CIE 230:2019 |                                                    |        |        |                                                                                               |         |         |              |            |                                                                                        |        |        |            |            |
| $W0$ (white monitor, 100%)                                                                                                        | 0,312        | 0,329                                                                                                                                                                                                                                                                                                                                                                                        | 95,05                                              | 100,00 | 108,90 | 100,00                                                                                        | 0,00    | 0,00    | 0,00         | 0          | 100,00                                                                                 | 0,00   | 0,00   | 0,00       | 0          |
| $W1$ (white monitor, 88,6%)                                                                                                       | 0,312        | 0,329                                                                                                                                                                                                                                                                                                                                                                                        | 84,21                                              | 88,60  | 96,48  | 95,40                                                                                         | 0,00    | 0,00    | 0,00         | 0          | 88,60                                                                                  | 0,00   | 0,00   | 0,00       | 0          |
| $N1$ (black monitor, 2,5%)                                                                                                        | 0,312        | 0,329                                                                                                                                                                                                                                                                                                                                                                                        | 2,37                                               | 2,50   | 2,72   | 18,00                                                                                         | 0,00    | 0,00    | 0,00         | 0          | 2,50                                                                                   | 0,00   | 0,00   | 0,00       | 0          |
| $N0$ (black monitor, 0,00%)                                                                                                       | 0,312        | 0,329                                                                                                                                                                                                                                                                                                                                                                                        | 0,00                                               | 0,00   | 0,00   | 0,00                                                                                          | 0,00    | 0,00    | 0,00         | 0          | 0,00                                                                                   | 0,00   | 0,00   | 0,00       | 0          |