

| Basic television colour or<br>mixture colour for D65<br>TLS00(a) for $Y_W=88,6$  | chromaticity |       | tristimulus values<br>( $Y=88,6$ for white D65) |        |        | <i>adapted</i> = standard CIELAB data $LAB^*_d$<br>( $L^*=95,4$ for white; $L^*=0,00$ for black)<br>$L^*_{a,d}=L^*_d$ $a^*_{a,d}=a^*_d$ $b^*_{a,d}=b^*_d$ $C^*_{ab,a,d}$ $h_{ab,a,d}$ |        |         |        |     | <i>relative</i> CIELAB data $lab^*_d$<br>( $L^*=95,4$ for white; $L^*=0,00$ for black)<br>$r^*_d$ $g^*_d$ $b^*_d$ $n^*$ $c^*$ $h^*$ $e^*_e$ $u^*_e$ $t^*$ |      |      |      |      |       |       |      |      |
|----------------------------------------------------------------------------------|--------------|-------|-------------------------------------------------|--------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|--------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|-------|-------|------|------|
|                                                                                  | $x_d$        | $y_d$ | $X_d$                                           | $Y_d$  | $Z_d$  |                                                                                                                                                                                       |        |         |        |     |                                                                                                                                                           |      |      |      |      |       |       |      |      |
| <i>three additive mixture colours: television colours acc. to ITU–R BT.709-3</i> |              |       |                                                 |        |        |                                                                                                                                                                                       |        |         |        |     |                                                                                                                                                           |      |      |      |      |       |       |      |      |
| $C_d$ cyan (cyan blue)                                                           | 0,225        | 0,329 | 47,67                                           | 69,76  | 94,78  | 86,88                                                                                                                                                                                 | −46,17 | −13,56  | 48,12  | 196 | 0,00                                                                                                                                                      | 1,00 | 1,00 | 0,00 | 1,00 | 0,545 | 0,578 | G31B | 0,50 |
| $M_d$ magenta (magenta red)                                                      | 0,321        | 0,154 | 52,53                                           | 25,24  | 85,93  | 57,30                                                                                                                                                                                 | 94,35  | −58,42  | 110,97 | 328 | 1,00                                                                                                                                                      | 0,00 | 1,00 | 0,00 | 1,00 | 0,912 | 0,875 | B50R | 0,50 |
| $Y_d$ yellow                                                                     | 0,419        | 0,505 | 68,22                                           | 82,20  | 12,27  | 92,66                                                                                                                                                                                 | −20,70 | 90,75   | 93,08  | 103 | 1,00                                                                                                                                                      | 1,00 | 0,00 | 0,00 | 1,00 | 0,286 | 0,289 | Y15G | 0,50 |
| <i>three aditive basic colours: television colours acc. to ITU–R BT.709-3</i>    |              |       |                                                 |        |        |                                                                                                                                                                                       |        |         |        |     |                                                                                                                                                           |      |      |      |      |       |       |      |      |
| $R_d$ red (orange red)                                                           | 0,640        | 0,330 | 36,54                                           | 18,84  | 1,71   | 50,50                                                                                                                                                                                 | 76,92  | 64,54   | 100,42 | 40  | 1,00                                                                                                                                                      | 0,00 | 0,00 | 0,00 | 1,00 | 0,111 | 0,056 | R22Y | 0,50 |
| $G_d$ green (leaf green)                                                         | 0,300        | 0,600 | 31,68                                           | 63,36  | 10,56  | 83,63                                                                                                                                                                                 | −82,77 | 79,90   | 115,04 | 136 | 0,00                                                                                                                                                      | 1,00 | 0,00 | 0,00 | 1,00 | 0,378 | 0,406 | Y62G | 0,50 |
| $B_d$ blue (violet blue)                                                         | 0,150        | 0,060 | 15,99                                           | 6,40   | 84,22  | 30,39                                                                                                                                                                                 | 76,06  | −103,58 | 128,52 | 306 | 0,00                                                                                                                                                      | 0,00 | 1,00 | 0,00 | 1,00 | 0,851 | 0,825 | B29R | 0,50 |
| <i>achromatic colours:</i>                                                       |              |       |                                                 |        |        |                                                                                                                                                                                       |        |         |        |     |                                                                                                                                                           |      |      |      |      |       |       |      |      |
| $W$ (ideal white, 100,00%)                                                       | 0,313        | 0,329 | 95,05                                           | 100,00 | 108,90 | 100,00                                                                                                                                                                                | 0,00   | 0,00    | 0,00   | 0   | 1,05                                                                                                                                                      | 1,05 | 1,05 | 0,00 | 0,00 | 0,00  | 0,00  | –    | 1,05 |
| $W1$ (white monitor, 88,6%)                                                      | 0,313        | 0,329 | 84,21                                           | 88,60  | 96,49  | 95,41                                                                                                                                                                                 | 0,00   | 0,00    | 0,00   | 0   | 1,00                                                                                                                                                      | 1,00 | 1,00 | 0,00 | 0,00 | 0,00  | 0,00  | –    | 1,00 |
| $N$ (black monitor, 0,00%)                                                       | –            | –     | 0,00                                            | 0,00   | 0,00   | 0,00                                                                                                                                                                                  | 0,00   | 0,00    | 0,00   | 0   | 0,00                                                                                                                                                      | 0,00 | 0,00 | 1,00 | 0,00 | 0,00  | 0,00  | –    | 0,00 |
| $NO$ –                                                                           | –            | –     | –                                               | –      | –      | –                                                                                                                                                                                     | –      | –       | –      | –   | –                                                                                                                                                         | –    | –    | –    | –    | –     | –     | –    | –    |