

## Technical data

| Model                           | Kindermann KX 400C                        | Kindermann KX 5050 / KX 5050 NL* / KX 5050 W                         | Kindermann KX 3200 KX 3300 / KX 3200 wide                                       | Kindermann KX 3250 W / KX 3200 active                                                                                                      |
|---------------------------------|-------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Ref. No.                        | 3000 000 400                              | 3000 000 023 / 3000 000 027<br>3000 000 293                          | 8496 000 000 / 8498 000 000<br>8475 000 000                                     | 8497 000 000 / 8499 000 000                                                                                                                |
| Native resolution (pixels)      | XGA                                       | XGA / XGA / WXGA                                                     | XGA                                                                             | WXGA / XGA                                                                                                                                 |
| Supported resolutions           | VGA - UXGA                                | VGA - UXGA                                                           | VGA - UXGA                                                                      | VGA - UXGA                                                                                                                                 |
| Lumens                          | 2600                                      | 5200 / 5200 / 4600                                                   | 2600 / 3500 / 3000                                                              | 2600                                                                                                                                       |
| Display type                    | LCD                                       | LCD                                                                  | LCD                                                                             | LCD                                                                                                                                        |
| Contrast ratio                  | 800 : 1                                   | 500 : 1                                                              | 500 : 1                                                                         | 500 : 1                                                                                                                                    |
| Frequency: horizontal, vertical | 15-100 kHz, 50-100 Hz                     | 15-107 kHz, 50-120 Hz                                                | 31-92 kHz, 48-120 Hz                                                            | 31-92 kHz, 48-120 Hz                                                                                                                       |
| Focal length in mm              | 9.02                                      | 24.0 - 28.8 /<br>* depending on lens                                 | 18.5 - 22.2                                                                     | 18.5 - 22.2                                                                                                                                |
| Image diagonal in m             | 1.02 - 5                                  | 1 - 7.62 /<br>* depending on lens                                    | 1.02 - 7.68 / 1.02 - 7.68 /<br>0.5 - 7.68                                       | 1.02 - 7.68                                                                                                                                |
| Projection distance in m        | 0.51 - 2.56                               | 1.17 - 14 /<br>* depending on lens                                   | 1.0 - 10.6 / 1.0 - 10.6 /<br>0.5 - 7.4                                          | 1.0 - 11.25 / 1.0 - 10.6                                                                                                                   |
| Ratio (distance : image width)  | 0.6 : 1                                   | 1.47 - 1.78 : 1 /<br>* depending on lens                             | 1.47 - 1.78 : 1 / 1.47 - 1.78 : 1 /<br>1.0 - 1.2 : 1 with wide angle<br>adapter | 1.54 - 1.85 : 1 / 1.47 - 1.78 : 1                                                                                                          |
| Interchangeable lenses          | no                                        | no / * yes (3 x)                                                     | -                                                                               | -                                                                                                                                          |
| Lamp                            | 230 W NSH                                 | 330 W UHP                                                            | 200 W UHP / 230 W UHP /<br>220 W UHP                                            | 200 W UHP                                                                                                                                  |
| Noise level                     | 29 dB (Eco)                               | 30 dB (Eco)                                                          | 28 dB / 29 dB (Eco) /<br>28 dB (Eco)                                            | 28 dB (Eco)                                                                                                                                |
| Dimensions in mm                | 345 x 94 x 306                            | 480 x 152 x 360                                                      | 325 x 97 x 260                                                                  | 325 x 97 x 260                                                                                                                             |
| Weight in kg                    | 3.8                                       | 8.2 / 7.2* (without lens)                                            | 3.3 / 3.3 / 3.6                                                                 | 3.3 / 3.4                                                                                                                                  |
| <b>Inputs / outputs</b>         |                                           |                                                                      |                                                                                 |                                                                                                                                            |
| Computer VGA (analogue)         | 1 x HD 15,<br>1 x HD 15 switchable IN/OUT | 1 x HD 15                                                            | 1 x HD 15                                                                       | 1 x HD 15                                                                                                                                  |
| DVI/HDMI (digital)              | -                                         | 1 x DVI-I                                                            | 1 x DVI-I                                                                       | 1 x DVI-I                                                                                                                                  |
| Video                           | 1 x Cinch (component Y)                   | 1 x Cinch                                                            | 1 x Cinch                                                                       | 1 x Cinch                                                                                                                                  |
| S-Video                         | 1 x Mini DIN 4 Pin                        | 1 x Mini DIN 4 Pin                                                   | 1 x Mini DIN 4 Pin                                                              | 1 x Mini DIN 4 Pin                                                                                                                         |
| Component video                 | 1 x Cinch/3                               | 1 x Cinch/3                                                          | 1 x Cinch/3                                                                     | 1 x Cinch/3                                                                                                                                |
| RS 232 interface                | 1 x RS 232 (9 pin)                        | 1 x RS 232 (9 pin)                                                   | 1 x RS 232 (9 pin)                                                              | 1 x RS 232 (9 pin)                                                                                                                         |
| LAN control                     | 1 x LAN (RJ45)                            | 1 x LAN (RJ45)                                                       | - / 1 x LAN (RJ45) / -                                                          | 1 x LAN (RJ45) / -                                                                                                                         |
| Mouse interface                 | -                                         | 1 x USB/B                                                            | 1 x USB/B                                                                       | 1 x USB (B) /<br>1 x USB (B) for active control                                                                                            |
| Audio (computer)                | 1 x 3.5 mm stereo jack                    | 2 x 3.5 mm stereo jack                                               | 2 x 3.5 mm stereo jack                                                          | 2 x 3.5 mm stereo jack                                                                                                                     |
| Audio (video)                   | 1 x Cinch/2                               | 2 x Cinch/2                                                          | 1 x Cinch/2                                                                     | 1 x Cinch/2                                                                                                                                |
| Monitor output                  | yes (switchable IN/OUT)                   | yes                                                                  | yes                                                                             | yes                                                                                                                                        |
| Audio output                    | yes                                       | yes                                                                  | yes                                                                             | yes                                                                                                                                        |
| <b>Special functions</b>        |                                           |                                                                      |                                                                                 |                                                                                                                                            |
| Keystone correction (digital)   | vertical ± 30°                            | vertical ± 30°                                                       | vertical ± 30°                                                                  | vertical ± 30°                                                                                                                             |
| Loudspeaker                     | 1 x 7 W                                   | 1 x 8 W                                                              | 1 x 8 W                                                                         | 1 x 8 W                                                                                                                                    |
| Safety features                 | Kensington lock, password<br>protection   | Kensington lock, password<br>protection                              | Kensington lock, password<br>protection                                         | Kensington lock, password<br>protection                                                                                                    |
| Laser pointer in remote control | no                                        | yes                                                                  | yes                                                                             | yes                                                                                                                                        |
| Voltage                         | 100-240 V AC, 50/60 Hz                    | 100-240 V AC, 50/60 Hz                                               | 100-240 V AC, 50/60Hz                                                           | 100-240 V AC, 50/60 Hz                                                                                                                     |
| Special features                | Lamp change on top,<br>user logo          | Quick power on/off,<br>lamp and filter change<br>sideways, user logo | Quick on/off (10 s),<br>lamp and filter change<br>sideways, user logo           | Quick on/off (10 s),<br>lamp and filter change side-<br>wards, user logo<br><b>KX 3200 active:</b><br>Interactive projector                |
| Lamp warranty                   | 1 year or 500 h<br>(whatever comes first) | 1 year or 500 h<br>(whatever comes first)                            | 1 year or 500 h<br>(whatever comes first)                                       | 1 year or 500 h<br>(whatever comes first)                                                                                                  |
| Warranty                        | 2 years bring-in                          | 2 years bring-in                                                     | 2 years bring-in                                                                | 2 years bring-in                                                                                                                           |
| Options                         | -                                         | 3 interchangeable lenses<br>(KX 5050 NL only)                        | - / - / Wide angle adapter de-<br>tachable, ratio then 1.47 - 1.78:1            | -                                                                                                                                          |
| Package includes                | IR remote control, set of cables          | IR remote control with mouse<br>and laser pointer, set of cables     | IR remote control with mouse<br>and laser pointer, set of cables,<br>soft bag   | IR remote control with mouse<br>and laser pointer, set of cables,<br>soft bag<br><b>KX 3200 active:</b><br>IR telescope pointer and IR pen |