# Phase One iXA 180

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| **General** | |
| **Description:** | Phase One aerial cameras are designed as the central hub in an open aerial data acquisition system, enabling users to choose ?best-of-breed? components to complement the Phase One systems. The iXU-RS cameras are also made in 80 MP, 60 MP and 60 MP achromatic CCD versions for users looking for a standalone camera or an array of multiple cameras. |
| **Product Brochure:** | http://www.geo-matching.com/upload/440-2592-3935.pdf |
| **Demonstration video (YouTube/Vimeo URL):** | https://www.youtube.com/watch?v=ttX-AphVJg4 |
| **Demonstration Video 2 (YouTube/Vimeo URL):** | |
| **Demonstration Video 3 (YouTube/Vimeo URL):** | |
| **Demonstration Video 4 (YouTube/Vimeo URL):** | |
| **Demonstration Video 5 (YouTube/Vimeo URL):** | |
| **Product Manual:** | http://www.geo-matching.com |
| **Year of introduction:** | 2012 |
| **Last update:** | 2013 |
| **Data storage** | |
| **Type of storage:** | flash card, SSD |
| **Storage capacity [GB]:** | 1 terabyte |
| **Storage Replaceable:** | Y |
| **Hardware** | |
| **Camera unit Weight [kg]:** | 2.2 |
| **Camera unit Length [m]:** | 0.132 |
| **Camera unit Width [m]:** | 0.128 |
| **Camera unit Depth [m]:** | 0.114 |
| **Power requirements:** | 12-30 V DC 20 W |
| **Type of GNSS/ INS positioning system:** | Compatible with most popular systems |

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| **Software** | |
| **On board image storage format(s):** | RAW and inflight process to TIFF, JPG |
| **Type of mission planning software:** | Compatible with any |
| **Type of postprocessing software:** | Capture One, iX Capture included with camera |
| **Sensor Characteristics** | |
| **Number of lenses:** | 1 |
| **Lenses: focal lengths [mm]:** | 28 mm, 55 mm, 80 mm, 110 mm, 150 mm, 240 mm |
| **Lenses: interchangeable:** | Y |
| **Type CCD:** | 80 MP |
| **Pixel size [µm]:** | 5.2 |
| **Megapixels:** | 80 |
| **Dynamic range [bits]:** | 12 |
| **CCD RGB:** | Y |
| **CCD IR:** | N |
| **CCD simultaneous:** | Y |
| **CCD along track format [mm x mm]:** | 53.7 x 40.4 |
| **CCD along track format [pixel x pixel]:** | 10328 x 7760 |
| **CCD across track format [mm x mm]:** | 53.7 |
| **CCD across track format [pixel x pixel]:** | 10328 |
| **Max. integration time [s]:** | |
| **Max. shutter speed [s]:** | 0.00025 |
| **Data collection rate [megapixel/s]:** | |
| **Max. across-track FOV [deg]:** | 53 |
| **Operation Characteristics** | |
| **Helicopter:** | Y |
| **Fixed-wing:** | Y |
| **Min. flying height [m]:** | 100 |
| **Typical flying height [m]:** | 1000 |
| **Max flying height[m]:** | 10000 |
| **Max. acquisition duration [h]:** | No limitation |
| **Warm-up time [s]:** | 0 |
| **Forward motion compensation:** | Y |
| **In flight pre-view:** | Y |
| **Temperature controlled pod:** | N |
| **Uncertainty** | |

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| **Precision [pixels]:** | |
| **Geometric calibration:** | Y |
| **Radiometric calibration:** | Y |
| **Application** | |
| **Training facilities:** | Y |
| **Main applications :** | Corridor Mapping; Photogrammetric Mapping over large areas; Nadir Orthophotography; LiDAR Augmentation; Oblique Imagery; emergency/disaster response; tactical/security mapping; remote sensing; commercial ortho production; Remote Sensing; Coastal; Forestry; Agriculture |
| **Distinguishable features :** | The iXA is a robust workhorse able to take advantage of a wide range of Schneider-Kreuznach lenses with central leaf shutter. |
| **Case Studies** | |
| **Case Study 1: title:** | |
| **Case study 1 (pdf):** | http://www.geo-matching.com |
| **Cast study 2: title:** | |
| **Case Study 2 (pdf):** | http://www.geo-matching.com |
| **Case Study 3: title:** | |
| **Case Study 3 (pdf):** | http://www.geo-matching.com |
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| **Case Study 5: title:** | |
| **Case study 5: (pdf):** | http://www.geo-matching.com |
| **Case Study 6: title:** | |
| **Case Study 6 (pdf):** | http://www.geo-matching.com |
| **Case Study 7: title:** | |
| **Case Study 7 (pdf):** | http://www.geo-matching.com |

# Phase One A/S

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### Company profile

Phase One A/S is the world-leading provider of medium format digital photography systems and imaging solutions for professional photographers and industrial applications. Established in the early 1990s, Phase One is a true digital photography pioneer with a passionate commitment to image quality excellence and creative freedom.Phase Oneâ€™s engineering and design expertise has produced imaging breakthroughs from high- resolution camera systems to advanced software for better photographic workflows and raw file editing. Phase Oneâ€™s understanding and ability to optimize hardware and software integration underscores their award winning Capture One Pro software â€“ widely preferred by professional photographers. Phase Oneâ€™s industrial division focuses on imaging accuracy for industrial applications ranging from aerial image acquisition to cultural heritage preservation â€“ from mapping the globe, to protecting priceless works of art and documents.