Nova Blue and Nova Grey Feature Comparison

Functions	Nova blue	Nova grey
SW-Version	DobotStudioPro 2.8	DobotStudioPro 4.6
DobotBlockly (graphical)	available	available
Script (Lua-based)	available	available
Modbus, TCP/UDP	available	available
Conveyor Tracking	available	available
Vision Commands	available	available
Subthreads / Parallel Tasks	available	available
Dobot VX500 2.5D Smart Camera plugin	–	available
Virtual Controller (Simulation)	–	available
API (Python, etc)	available	available (advanced bug fixing, error messages)
Programming interfaces	PC Android (over APP CRStudio)	PC, Android
Additional functions	–	**Code Library (function blocks):** Reusable program modules with import/export **Custom Operation Interface (HMI):** Custom user interfaces for operators/changeovers **Background Process:** Parallel control logic (e.g., IO monitoring) **Safety Checksum:** Tamper-proof safety parameter monitoring **Safety Zones / Walls:** Virtual safe walls, zones, safe home
Collision monitoring	available	available (more finely configurable)
Safety I/O	basic	Advanced (safety zones, walls, checksums)
User roles	basic	Full role management (admin, technician, operator)
Stock availability (delivery time)	Fast (7 working days)	Medium (14 working days)
Selection guide	Preferably if - Nova Blue is already available to the customer - simple Blocky programming is used (Upgrade to DobotStudioPro 4.6 can only be performed by Dobot engineers in Neu-Isenburg, at an additional cost)	Required if the customer: - Wants to use the Dobot VX500 - Needs the additional functions mentioned above