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01 Identity and operating boundary

Siemens 6GF1710-3AA is the SIMATIC VS710 stand-alone vision sensor supplied with ProVision runtime. It combines a camera, processor, storage, digital I/O and PROFIBUS DP, VGA and RS232 interfaces for industrial inspection tasks.

STEP	MODEL-SPECIFIC ACTION
1	Confirm 6GF1710-3AA and the SIMATIC VS710 ProVision execution before work.
2	Archive the inspection program, camera settings, I/O map and PROFIBUS address.
3	Compare the retained configuration with the exact installed position.
4	Verify stand-alone industrial image inspection and parts verification before release.

Interface boundary

Keep 6GF1710-3AA matched to the recorded SIMATIC VS710 host and companion hardware.

Image format	Up to 768 x 512 pixels
Processor	100 MHz 80486

Acceptance boundary

Do not release the position until diagnostics and the controlled function agree with the retained record.

Role	stand-alone industrial image inspection and parts
Result	Pass / hold

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6GF1710-3AA

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02 Interface and configuration map

Siemens 6GF1710-3AA processes captured images inside one compact unit and exchanges inspection triggers, results and engineering data through its configured digital and serial interfaces.

STEP	MODEL-SPECIFIC ACTION
1	Place the machine and inspection result path in the approved maintenance state.
2	Isolate the 24 V supply and protect the lens and CCD opening from contamination.
3	Compare the retained configuration with the exact installed position.
4	Verify stand-alone industrial image inspection and parts verification before release.

Interface boundary

Keep 6GF1710-3AA matched to the recorded SIMATIC VS710 host and companion hardware.

Processor	100 MHz 80486
Main memory	16 MB DRAM

Acceptance boundary

Do not release the position until diagnostics and the controlled function agree with the retained record.

Role	stand-alone industrial image inspection and parts
Result	Pass / hold

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03 Installation sequence

Siemens 6GF1710-3AA processes captured images inside one compact unit and exchanges inspection triggers, results and engineering data through its configured digital and serial interfaces.

STEP	MODEL-SPECIFIC ACTION
1	Restore the C-mount lens, mechanical position, grounding and connector orientation.
2	Verify the 20.4-28.8 V DC supply before reconnecting digital I/O and PROFIBUS.
3	Compare the retained configuration with the exact installed position.
4	Verify stand-alone industrial image inspection and parts verification before release.

Interface boundary

Keep 6GF1710-3AA matched to the recorded SIMATIC VS710 host and companion hardware.

Main memory	16 MB DRAM
Storage	16 MB IDE flash disk

Acceptance boundary

Do not release the position until diagnostics and the controlled function agree with the retained record.

Role	stand-alone industrial image inspection and parts
Result	Pass / hold

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04 Diagnostics and functional verification

Siemens 6GF1710-3AA processes captured images inside one compact unit and exchanges inspection triggers, results and engineering data through its configured digital and serial interfaces.

STEP	MODEL-SPECIFIC ACTION
1	Load the retained ProVision program and compare live images, triggers and output states.
2	Run known good and known reject samples before releasing 6GF1710-3AA.
3	Compare the retained configuration with the exact installed position.
4	Verify stand-alone industrial image inspection and parts verification before release.

Interface boundary

Keep 6GF1710-3AA matched to the recorded SIMATIC VS710 host and companion hardware.

Storage	16 MB IDE flash disk
Image buffer	2 MB

Acceptance boundary

Do not release the position until diagnostics and the controlled function agree with the retained record.

Role	stand-alone industrial image inspection and parts
Result	Pass / hold

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05 Acceptance and service handover

Siemens 6GF1710-3AA processes captured images inside one compact unit and exchanges inspection triggers, results and engineering data through its configured digital and serial interfaces.

STEP	MODEL-SPECIFIC ACTION
1	Confirm 6GF1710-3AA and the SIMATIC VS710 ProVision execution before work.
2	Archive the inspection program, camera settings, I/O map and PROFIBUS address.
3	Compare the retained configuration with the exact installed position.
4	Verify stand-alone industrial image inspection and parts verification before release.

Interface boundary

Keep 6GF1710-3AA matched to the recorded SIMATIC VS710 host and companion hardware.

Image buffer	2 MB
Power supply	24 V DC, 20.4 to 28.8 V

Acceptance boundary

Do not release the position until diagnostics and the controlled function agree with the retained record.

Role	stand-alone industrial image inspection and parts
Result	Pass / hold

Related Siemens product pages

- Siemens 6ES7972-4AA02-0XA0 — View product page
- Siemens 6ES7972-0AA01-0XA0 — View product page
- Siemens 6ES7392-1AM00-0AA0 — View product page

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